



Medical Advisory Committee Monthly Meeting
Tuesday, July 28, 2020 @6:30 pm.
AGENDA

- ❖ Call to Order Joseph Cervia, MD.
- ❖ Review of the minutes from June 30, 2020 Joseph Cervia, MD.
- ❖ Medical Policies: Joseph Cervia, MD
 - Site of Service Utilization - Commercial/Medicaid

Revision History

Jan. 10, 2020 — expanded from Commercial and Medicaid only to include Medicare applicability eff. Feb. 1. 2020.

- Acupuncture for Chronic Lower Back Pain- Medicare

Revision History

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| Mar. 13, 2020 | New policy |
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- Amniotic Membrane Transplantation for Ocular Reconstruction

Revision History

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| Apr. 10, 2020 | added persistent corneal epithelial defect as a covered indication |
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- Bone Mineral Density Studies in Adult Populations

Revision History

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| May 8, 2020 | Added Medicare coverage for pulse-echo ultrasound (e.g., Bindex® point-of-care hand-held device) eff. 8/8 2020 |
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- Gender Affirming/Reassignment Surgery — New York

Revision History

5/8/2020

Specific to breast surgery:

1. Eliminated two-letter prerequisite
2. Eliminated prerequisite requiring members to live 12 months in the gender congruent with the member's gender identity

- ❖ Presentations: Joseph Padula, MD
 - Surviving Mechanical Ventilation in COVID Lung Disease –or Not
- ❖ Next Meeting- Tuesday, August 25, 2020 Joseph Cervia, MD
- ❖ Adjournment Joseph Cervia, MD



**HealthCare Partner Management Services Organization
 Medical Advisory Committee meeting
 Tuesday, June 30, 2020**

PRESENT: Joseph Cervia, MD; Melyssa Gil, Executive Assistant; Lorraine Marin, MD; Roman Urbanczyk, MD; Neeta Shah, MD; Lisa Boodram, Pharm. D.; Nancy Klotz, MD, VP; Edward Zamecki, MD; James DeMaio, MD; Donald Claxton, MD; Roger Boykin, MD

EXCUSED: Peggy McCoy, Executive Assistant; Eric Shoenfeld, MD; Sandra M. Mitchell, RN, VP Medical Mgmt.; Robert LoNigro, MD, EVP; Asif Rehman, MD; Wesner Moise, MD; Aloysius Cuyjet, MD; Monique Phillips, CCO; Karl Brown, MD, EVP Claims; Kauser Yasmeen, MD; Noel Brown, MD; Darren Kaufman, MD, SVP; George Ingram, Regional VP; David Madover, V.P. Provider Networks

| AGENDA ITEM | FINDINGS / DISCUSSION / CONCLUSIONS / RECOMMENDATIONS | ACTION | RESPONSIBLE PARTY | FOLLOW-UP/ TARGET DATE |
|---|---|--|--------------------------|-------------------------------|
| <u>Call to Order</u> | The June 30, 2020 Medical Advisory Committee meeting was called to order at 6:35 p.m. | N/A | Joseph Cervia, MD | N/A |
| <u>Approval of Minutes from last meeting</u> | The Minutes from the May 26, 2020 were reviewed and approved as presented. | Approved as Presented. | Joseph Cervia, MD | N/A |
| <u>Open Issues</u> | N/A | N/A | Joseph Cervia, MD. | N/A |
| <u>Medical Policies</u> | <ul style="list-style-type: none"> • Functional Endoscopic Sinus Surgery (FESS) • Glaucoma Surgery • MYvantage® Hereditary Comprehensive Cancer Panel | The revised medical policies were reviewed and approved as presented | Joseph Cervia, MD | N/A |



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|-----------------------------------|--|--------|--------------------------|------------------------|
| | <ul style="list-style-type: none"> • Posterior Tibial Nerve Stimulation for Voiding Dysfunction • Rhinoplasty | | | |
| <p><u>Presentation</u></p> | <p>Back to the Future-Final THE CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) developed guidance for providing PrEP when facility-based services and in-person patient-clinician contact is limited. For programs experiencing disruption in PrEP clinical services, CDC offers the following guidance for clinics to consider in the context of local resources and staff availability.</p> <p>1. Reducing the number of new HIV infections remains a public health priority, and providing PrEP care is an essential health service. Clinicians should continue to ensure the availability of PrEP for patients newly initiating PrEP and patients continuing PrEP use.</p> <p>2. Quarterly HIV testing should be continued for patient safety. Lab-only visits for assessment of HIV infection and other indicated tests for the provision of PrEP are preferred. When these are not available or feasible, CDC recommends considering two additional options.</p> <ul style="list-style-type: none"> • The first option is a home specimen collection kit for HIV and sexually transmitted infection (STI) tests, which is covered by most insurance plans and can be ordered by clinicians. Some laboratories (such as Molecular Testing Labs™) have validated protocols for testing home-collected samples for the panel of tests required for those initiating or continuing PrEP. Specimen kits are mailed to the patient’s home and contain supplies to collect blood from a finger stick or other appropriate method (e.g. self-collected swabs and urine). The kit is then mailed back to the lab with test results returned to the clinician who acts on results accordingly. This laboratory-conducted test is sensitive enough to detect recent HIV infection. | | <p>Joseph Cervia, MD</p> | <p>N/A</p> |



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| | <ul style="list-style-type: none"> • The second option is self-testing via an oral swab-based test. Although this type of HIV self-test is usually not recommended for PrEP patients due to its lower sensitivity in detecting recent HIV infection during PrEP use, clinicians could consider use of these tests when other options are not available. <p>3. When HIV-negative status is confirmed, consider providing a prescription for a 90-day supply of PrEP medication (rather than a 30-day supply with two refills) to minimize trips to the pharmacy and to facilitate PrEP adherence. Several programs are available to help provide affordable PrEP medication including Ready, Set, PrEP , a nationwide program that makes PrEP medications available at no cost to individuals who qualify and lack prescription drug coverage; state drug assistance programs; and Gilead’s Medication Assistance Program (MAP) , which assists eligible HIV-negative adults in the United States who require assistance paying for PrEP.</p> <p>4. If a PrEP clinic is considering closing or suspending services temporarily, health care providers should establish referral relationships with other clinics, telemedicine services, or pharmacies so that clients may remain engaged in PrEP care. If PrEP clinical services have not been disrupted, providers should continue to follow recommendations outlined in the 2017 PrEP Clinical Guidelines and Clinical Providers’ Supplement. To further ensure safe delivery of critical public health services, CDC has issued guidance for protecting public health workers engaged in public health activities that requires face-to-face interaction.</p> | | | |
| <u>Presentation</u> | <p>Observational Study of Hydroxychloroquine in Hospitalized Patients with Covid-19</p> <p>Hydroxychloroquine has been widely administered to patients with Covid-19 without robust evidence supporting its use. The Division of General Medicine examined the</p> | | Joseph Cervia, MD | N/A |



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| | <p>association between hydroxychloroquine use and intubation or death at a large medical center in New York City. Data were obtained regarding consecutive patients hospitalized with Covid-19, excluding those who were intubated, died, or discharged within 24 hours after presentation to the emergency department (study baseline). The primary end point was a composite of intubation or death in a time-to event analysis. We compared outcomes in patients who received hydroxychloroquine with those in patients who did not, using a multivariable Cox model with inverse probability weighting according to the propensity score. Of 1446 consecutive patients, 70 patients were intubated, died, or discharged within 24 hours after presentation and were excluded from the analysis. Of the remaining 1376 patients, during a median follow-up of 22.5 days, 811 (58.9%) received hydroxychloroquine (600 mg twice on day 1, then 400 mg daily for a median of 5 days); 45.8% of the patients were treated within 24 hours after presentation to the emergency department, and 85.9% within 48 hours. Hydroxychloroquine-treated patients were more severely ill at baseline than those who did not receive hydroxychloroquine (median ratio of partial pressure of arterial oxygen to the fraction of inspired oxygen, 223 vs. 360). Overall, 346 patients (25.1%) had a primary end-point event (180 patients were intubated, of whom 66 subsequently died, and 166 died without intubation). In the main analysis, there was no significant association between hydroxychloroquine use and intubation or death (hazard ratio, 1.04, 95% confidence interval, 0.82 to 1.32). Results were similar in multiple sensitivity analyses. In this observational study involving patients with Covid-19 who had been admitted to the hospital, hydroxychloroquine administration was not associated with either a greatly lowered or an increased risk of the composite end point of intubation or</p> | | | |



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| | death. Randomized, controlled trials of hydroxychloroquine in patients with Covid-19 are needed. (Funded by the National Institutes of Health.) | | | |
| <u>Next Meeting</u> | The next Medical Advisory Committee meeting will be held on Tuesday, July 28, 2020 @6:30 p.m. | N/A | N/A | N/A |
| <u>Adjournment</u> | The meeting was adjourned at 7:35 p.m. | N/A | Joseph Cervia, MD. | N/A |

Joseph Cervia, MD
Medical Director Reviewer, Medical Advisory
Committee Chair

Date – 6/30/2020

Site of Service Utilization

Last Review Date: January 10, 2020

Number: MG.MM.AD.19a

Medical Guideline Disclaimer

Property of EmblemHealth. All rights reserved. The treating physician or primary care provider must submit to EmblemHealth the clinical evidence that the patient meets the criteria for the treatment or surgical procedure. Without this documentation and information, EmblemHealth will not be able to properly review the request for prior authorization. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer-reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary. If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication. EmblemHealth Services Company LLC, ("EmblemHealth") has adopted the herein policy in providing management, administrative and other services to Health Insurance Plan of Greater New York and Group Health Incorporated, related to health benefit plans offered by these entities. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

Background

This Utilization Review Guideline provides assistance in interpreting EmblemHealth benefit plans. When deciding coverage, the member specific benefit plan document must be referenced. The terms of the member specific benefit plan document [e.g., Certificate of Coverage (COC), Schedule of Benefits (SOB), and/or Summary Plan Description (SPD)] may differ greatly from the standard benefit plan upon which this Utilization Review Guideline is based. In the event of a conflict, the member specific benefit plan document supersedes this Utilization Review Guideline. All reviewers must first identify member eligibility, any federal or state regulatory requirements, and the member specific benefit plan coverage prior to use of this Utilization Review Guideline. Other Policies and Guidelines may apply. ConnectiCare may also use tools developed by third parties, such as the MCG™ Care Guidelines, to assist us in administering health benefits. The MCG™ Care Guidelines are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice. EmblemHealth reserves the right, in its sole discretion, to modify its Policies and Guidelines as necessary. This Utilization Review Guideline is provided for informational purposes. It does not constitute medical advice.

Benefit Considerations

Before using this guideline, please check the member specific benefit plan document and any federal or state mandates, if applicable.

Preauthorization requirements apply to EmblemHealth plans that require services to be medically necessary and conducted in an optimal clinical setting. The medical necessity of the procedure may be separately reviewed against the appropriate criteria. Refer to the member specific benefit plan document to determine if medical necessity applies.

Coverage Rationale

Surgery may safely be performed in various settings. Some of the common settings used are an inpatient hospital or medical center, an off-campus outpatient hospital or medical center, an on-campus outpatient hospital or medical center, an ambulatory surgical center, or a doctor's office. Costs for surgical procedures may vary among these different settings. To encourage the use of the most safe and appropriate, sites of service for certain medically necessary outpatient surgical procedures, prior authorization is required for the site of service for the surgical procedures listed below.

We will review the site of service for medical necessity for certain elective surgical procedures. Site of service is defined as the location where the surgical procedure is performed, such as an off campus-outpatient hospital or medical center, an on campus-outpatient hospital or medical center, an ambulatory surgical center, or an inpatient hospital or medical center or providers office. When there is more than one option for the site of surgery, and in the absence of any clinical contra-indication, the lowest level of site will be approved (i.e., physician office first, then ASC, then hospital outpatient, and last, hospital inpatient).

The following will be considered to determine whether the elective procedure is being performed in an optimal clinical setting:

- Member's specific benefit plan
- Geographic availability of an in-network provider
- Ambulatory surgical care (ASC) capability
- Physician privileging
- Significant member comorbidities (see list of examples of Qualifying Conditions below)
- American Society of Anesthesiologist (ASA) physical status (PS), classification system

Potential Documentation Requirements

- Physician office notes
- Physician privileging
- [ASA score](#)

Office Based Procedures

Except for the following qualifying conditions, most elective procedures should be performed in an Office setting (not an all-inclusive list):

- Patient is unable to cooperate with procedure due to mental status, severe anxiety, or extreme pain sensitivity
- Failed office-based procedure attempt due to body habitus, abnormal anatomy, or technical difficulties
- Bleeding disorder that would cause a significant risk of morbidity
- Allergy to local anesthetic
- The following will be considered to determine whether the elective procedure is being performed in an optimal clinical setting:
- The individual has clinical conditions which may compromise the safety of an office-based procedure, including but not limited to:
 - Medical conditions which require enhanced monitoring, medications or prolonged recovery period; or
 - Increased risk for complications due to severe comorbidity, such as that evidenced by an American Society of Anesthesiologist's (ASA) class III or higher physical status.

ASC and Outpatient Surgical Procedures

Except for the qualifying conditions below, many elective procedures should be performed in an Ambulatory Surgical Center (ASC). Some patients may require more complex care due to factors such as age or medical conditions. Also, some ASCs may have specific guidelines that prohibit members who are above a certain weight or have certain health conditions from receiving care in those facilities.

Patients with severe systemic disease and some functional limitation (ASA PS classification III or higher) may be appropriate to have the procedure in an outpatient hospital setting (not an all – inclusive list):

- Morbid obesity (>BMI.40)
- Diabetes (brittle diabetes)
- Resistant hypertension (poorly controlled)
- Chronic obstructive pulmonary disease (COPD) (FEV1 <50%)
- Advance liver disease (MELD Score >8)
- Alcohol dependence (at risk for withdrawal syndrome)
- End stage renal disease (hyperkalemia (above reference range peritoneal or hemodialysis)
- Uncompensated chronic heart failure (CHF) (NYHA class III or IV)
- History of myocardial infarction (MI) (recent event (<3 mo.))
- History of cerebrovascular accident (CVA) or transient ischemic attack (TIA) (recent event (<3 mo.))
- Coronary artery disease (CAD/peripheral vascular disease (PVD) (ongoing cardiac ischemia requiring medical management recently placed drug eluting stent (within 1 year))
- Sleep apnea (mode rate to severe obstructive sleep apnea (OSA)
- Implanted pacemaker
- Personal history or family history of complication of anesthesia such as malignant hyperthermia
- Pregnancy
- Bleeding disorder requiring replacement factor or blood products or special infusion products to correct a coagulation defect (DDAVP is not blood product and is OK)
- Prolonged surgery (>3 hrs.)
- Anticipated need for transfusion
- Recent history of drug abuse (especially cocaine)
- Patients with drug eluting stents (DES) placed within one year or bare metal stents (BMS) or plain angioplasty within 90 days unless acetylsalicylic acid (ASA) and antiplatelet drugs will be continued by agreement of surgeon, cardiologist and anesthesia
- Ongoing evidence of myocardial ischemia
- Poorly controlled asthma (FEV1 <80% despite medical management)
- Significant valvular heart disease
- Cardiac arrhythmia (symptomatic arrhythmia despite medication)
- Potentially difficult airway
- Uncontrolled seizure disorder

Inpatient Surgical Procedures

Certain specific complex surgeries can only be performed in an inpatient setting due to the needed level of involvement of specialized staff and technical equipment necessary to safely perform the procedure. Examples include organ transplants, most oncology procedures and many cardiac procedures.

Revision History

Jan. 10, 2020 — expanded from Commercial and Medicaid only to include Medicare applicability eff. Feb. 1, 2020.

Coding

| CPT Codes | Description | Place of Service (POS) |
|-----------|--|------------------------|
| 10120 | Incision and removal of foreign body, subcutaneous tissues; simple | 19,22,24 |
| 10140 | Incision and drainage of hematoma, seroma or fluid collection | 19,22,24 |
| 11400 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter 0.5 cm or less | 19,22,24 |
| 11401 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter 0.6 to 1.0 cm | 19,22,24 |
| 11402 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter 1.1 to 2.0 cm | 19,22,24 |
| 11403 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter 2.1 to 3.0 cm | 19,22,24 |
| 11404 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter 3.1 to 4.0 cm | 19,22,24 |
| 11406 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), trunk, arms or legs; excised diameter over 4.0 cm | 19,22,24 |
| 11420 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 0.5 cm or less | 19,22,24 |
| 11421 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 0.6 to 1.0 cm | 19,22,24 |
| 11422 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 1.1 to 2.0 cm | 19,22,24 |
| 11423 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 2.1 to 3.0 cm | 19,22,24 |
| 11424 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 3.1 to 4.0 cm | 19,22,24 |
| 11426 | Excision, benign lesion including margins, except skin tag (unless listed elsewhere), scalp, neck, hands, feet, genitalia; excised diameter over 4.0 cm | 19,22,24 |
| 11442 | Excision, other benign lesion including margins, except skin tag (unless listed elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter 1.1 to 2.0 cm | 19,22,24 |
| 13101 | Repair, complex, trunk; 2.6 cm to 7.5 cm | 19,22 |
| 13132 | Repair, complex, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; 2.6 cm to 7.5 cm | 19,22 |
| 14040 | Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10 sq cm or less | 19,22 |
| 14060 | Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10 sq cm or less | 19,22 |
| 14301 | Adjacent tissue transfer or rearrangement, any area; defect 30.1 sq cm to 60.0 sq cm | 19,22 |

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| 19000 | Puncture aspiration of cyst of breast; | 19,22,24 |
| 20680 | Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate) | 19,22 |
| 21320 | Closed treatment of nasal bone fracture; with stabilization | 19,22 |
| 21552 | Excision, tumor, soft tissue of neck or anterior thorax, subcutaneous; 3 cm or greater | 19,22 |
| 21931 | Excision, tumor, soft tissue of back or flank, subcutaneous; 3 cm or greater | 19,22 |
| 27096 | Injection procedure for sacroiliac joint, anesthetic/steroid, with image guidance (fluoroscopy or CT) including arthrography when performed | 19,22,24 |
| 30140 | Submucous resection inferior turbinate, partial or complete, any method | 19,22 |
| 30520 | Septoplasty or submucous resection, with or without cartilage scoring, contouring or replacement with graft | 19,22 |
| 31579 | Laryngoscopy, flexible or rigid telescopic, with stroboscopy | 19,22,24 |
| 42821 | Tonsillectomy and adenoidectomy; age 12 or over | 19,22 |
| 42825 | Tonsillectomy, primary or secondary; younger than age 12 | 19,22 |
| 42826 | Tonsillectomy, primary or secondary; age 12 or over | 19,22 |
| 42830 | Adenoidectomy, primary; younger than age 12 | 19,22 |
| 43235 | Esophagogastroduodenoscopy, flexible, transoral; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure) | 19,22 |
| 43239 | Esophagogastroduodenoscopy, flexible, transoral; with biopsy, single or multiple | 19,22 |
| 43249 | Esophagogastroduodenoscopy, flexible, transoral; with transendoscopic balloon dilation of esophagus (less than 30 mm diameter) | 19,22 |
| 45300 | Proctosigmoidoscopy, rigid; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure) | 19,22,24 |
| 45330 | Sigmoidoscopy, flexible; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure) | 19,22,24 |
| 45378 | Colonoscopy, flexible; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure) | 19,22 |
| 45380 | Colonoscopy, flexible; with biopsy, single or multiple | 19,22 |
| 45384 | Colonoscopy, flexible; with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps | 19,22 |
| 45385 | Colonoscopy, flexible; with removal of tumor(s), polyp(s), or other lesion(s) by snare technique | 19,22 |
| 46922 | Destruction of lesion(s), anus (eg, condyloma, papilloma, molluscum contagiosum, herpetic vesicle), simple; surgical excision | 19,22,24 |
| 47000 | Biopsy of liver, needle; percutaneous | 19,22 |
| 49505 | Repair initial inguinal hernia, age 5 years or older; reducible | 19,22 |
| 49585 | Repair umbilical hernia, age 5 years or older; reducible | 19,22 |
| 49587 | Repair umbilical hernia, age 5 years or older; incarcerated or strangulated | 19,22 |
| 49650 | Laparoscopy, surgical; repair initial inguinal hernia | 19,22 |
| 49651 | Laparoscopy, surgical; repair recurrent inguinal hernia | 19,22 |
| 49652 | Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion, when performed); reducible | 19,22 |

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| 49653 | Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion, when performed); incarcerated or strangulated | 19,22 |
| 49654 | Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); reducible | 19,22 |
| 49655 | Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated | 19,22 |
| 50590 | Lithotripsy, extracorporeal shock wave | 19,22 |
| 52000 | Cystourethroscopy (separate procedure) | 19,22 |
| 52005 | Cystourethroscopy, with ureteral catheterization, with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic service; | 19,22 |
| 52204 | Cystourethroscopy, with biopsy(s) | 19,22 |
| 52224 | Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) or treatment of MINOR (less than 0.5 cm) lesion(s) with or without biopsy | 19,22 |
| 52234 | Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; SMALL bladder tumor(s) (0.5 up to 2.0 cm) | 19,22 |
| 52235 | Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; MEDIUM bladder tumor(s) (2.0 to 5.0 cm) | 19,22 |
| 52260 | Cystourethroscopy, with dilation of bladder for interstitial cystitis; general or conduction (spinal) anesthesia | 19,22 |
| 52281 | Cystourethroscopy, with calibration and/or dilation of urethral stricture or stenosis, with or without meatotomy, with or without injection procedure for cystography, male or female | 19,22 |
| 52310 | Cystourethroscopy, with removal of foreign body, calculus, or ureteral stent from urethra or bladder (separate procedure); simple | 19,22 |
| 52332 | Cystourethroscopy, with insertion of indwelling ureteral stent (eg, Gibbons or double-J type) | 19,22 |
| 52351 | Cystourethroscopy, with ureteroscopy and/or pyeloscopy; diagnostic | 19,22 |
| 52352 | Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with removal or manipulation of calculus (ureteral catheterization is included) | 19,22 |
| 52353 | Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with lithotripsy (ureteral catheterization is included) | 19,22 |
| 52356 | Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with lithotripsy including insertion of indwelling ureteral stent (eg, Gibbons or double-J type) | 19,22 |
| 54161 | Circumcision, surgical excision other than clamp, device, or dorsal slit; older than 28 days of age | 19,22 |
| 55040 | Vasotomy, cannulization with or without incision of vas, unilateral or bilateral (separate procedure) | 19,22 |
| 55250 | Vasectomy, unilateral or bilateral (separate procedure), including postoperative semen examination(s) | 19,22,24 |
| 55700 | Biopsy, prostate; needle or punch, single or multiple, any approach | 19,22 |
| 57288 | Sling operation for stress incontinence (eg, fascia or synthetic) | 19,22 |
| 57460 | Colposcopy of the cervix including upper/adjacent vagina; with loop electrode biopsy(s) of the cervix | 19,22,24 |
| 57522 | Conization of cervix, with or without fulguration, with or without dilation and curettage, with or without repair; loop electrode excision | 19,22 |
| 58353 | Endometrial ablation, thermal, without hysteroscopic guidance | 19,22 |

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| 58558 | Hysteroscopy, surgical; with sampling (biopsy) of endometrium and/or polypectomy, with or without D & C | 19,22 |
| 58563 | Hysteroscopy, surgical; with endometrial ablation (eg, endometrial resection, electrosurgical ablation, thermoablation) | 19,22 |
| 58565 | Hysteroscopy, surgical; with bilateral fallopian tube cannulation to induce occlusion by placement of permanent implants | 19,22 |
| 64520 | Injection, anesthetic agent; lumbar or thoracic (paravertebral sympathetic) | 19,22,24 |
| 64633 | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); cervical or thoracic, single facet joint | 19,22,24 |
| 64635 | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); lumbar or sacral, single facet joint | 19,22,24 |
| 64721 | Neuroplasty and/or transposition; median nerve at carpal tunnel | 19,22 |
| 65426 | Excision or transposition of pterygium; with graft | 19,22 |
| 65730 | Keratoplasty (corneal transplant); penetrating (except in aphakia or pseudophakia) Revised | 19,22 |
| 65855 | Trabeculoplasty by laser surgery | 19,22 |
| 66170 | Severing adhesions of anterior segment of eye, incisional technique (with or without injection of air or liquid) (separate procedure); anterior synechiae, except goniosynechiae | 19,22 |
| 66761 | Iridotomy/iridectomy by laser surgery (eg, for glaucoma) (per session) | 19,22 |
| 66821 | Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages) | 19,22 |
| 66982 | Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage | 19,22 |
| 66984 | Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification) | 19,22 |
| 67028 | Intravitreal injection of a pharmacologic agent (separate procedure) | 19,22 |
| 67036 | Vitrectomy, mechanical, pars plana approach; | 19,22 |
| 67040 | Vitrectomy, mechanical, pars plana approach; with endolaser panretinal photocoagulation | 19,22 |
| 67228 | Treatment of extensive or progressive retinopathy (eg, diabetic retinopathy), photocoagulation | 19,22 |
| 67311 | Strabismus surgery, recession or resection procedure; 1 horizontal muscle | 19,22 |
| 67312 | Strabismus surgery, recession or resection procedure; 2 horizontal muscles | 19,22 |
| 69436 | Tympanostomy (requiring insertion of ventilating tube), general anesthesia | 19,22 |
| 69631 | Tympanoplasty without mastoidectomy (including canalplasty, atticotomy and/or middle ear surgery), initial or revision; without ossicular chain reconstruction | 19,22 |

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Acupuncture for Chronic Low Back Pain — Medicare

Last Review Date: March 13, 2020

Number: MG.MM.ME.75v2

Medical Guideline Disclaimer

Property of EmblemHealth. All rights reserved. No prior authorization required for first 12 visits; additional visits require authorization. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer-reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary. If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication. EmblemHealth Services Company LLC, ("EmblemHealth") has adopted the herein policy in providing management, administrative and other services to Health Insurance Plan of Greater New York and Group Health Incorporated, related to health benefit plans offered by these entities. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

Definition

Acupuncture is the selection and manipulation of specific acupuncture points by penetrating the skin with fine needles.

Related Medical Guidelines

[Acupuncture - EmblemHealth Medicare HMO Plans with Acupuncture Benefit](#)

Guidelines

Criterion I or II

I. Medicare HMO Plans with Acupuncture Supplemental Benefit — **Services prior to Jan. 21, 2020**

Members of certain Medicare HMO plans are eligible for acupuncture for low back pain when performed by an individual licensed by New York State to perform acupuncture.

- Credentialed participating licensed acupuncturists or physicians (MD or DO) only
- Acupuncture reimbursement is limited to a maximum of four total service units in any combination, per date of service, subject to correct coding
- Either acupuncture or evaluation and management (E/M) on the same day, but not both:
 - For acupuncture with a new patient E/M (including separately identifiable service-modifier 25), EmblemHealth will reimburse only the E/M service
 - For acupuncture with established patient E/M (including separately identifiable service-modifier 25), EmblemHealth will reimburse only the acupuncture service

Acupuncture services for low back pain on or after January 21, 2020 are not covered under the supplemental benefit. Please see guidance below for coverage and criteria. All other services covered per previously issued policy ([Acupuncture - EmblemHealth Medicare HMO Plans with Acupuncture Benefit](#)).

II. All Medicare members — services performed on or after January 21, 2020

Effective for services performed on or after January 21, 2020 EmblemHealth will cover acupuncture for Medicare members with chronic low back pain under the medical benefit. Up to 12 visits in 90 days are covered for Medicare beneficiaries under the following circumstances:

- For the purpose of this policy, chronic low back pain (cLBP) is defined as:
 - Lasting 12 weeks or longer;
 - nonspecific, in that it has no identifiable systemic cause (i.e., not associated with metastatic, inflammatory, infectious, etc. disease);
 - not associated with surgery; and
 - not associated with pregnancy.
- An additional eight sessions will be covered for those patients demonstrating an improvement with prior authorization. No more than 20 acupuncture treatments may be administered annually.
- Treatment must be discontinued if the patient is not improving or is regressing.

Physicians (as defined in 1861(r)(1)) may furnish acupuncture in accordance with applicable state requirements.

Physician assistants, nurse practitioners/clinical nurse specialists (as identified in 1861(aa)(5)), and auxiliary personnel may furnish acupuncture if they meet all applicable state requirements and have:

- A masters or doctoral level degree in acupuncture or Oriental Medicine from a school accredited by the Accreditation Commission on Acupuncture and Oriental Medicine (ACAOM);
- and
- current, full, active, and unrestricted license to practice acupuncture in a State, Territory, or Commonwealth (i.e. Puerto Rico) of the United States, or District of Columbia.

Auxiliary personnel furnishing acupuncture must be under the appropriate level of supervision of a physician, physician assistant, or nurse practitioner/clinical nurse specialist required by our regulations at 42 CFR §§ 410.26 and 410.27.

Revision History

| | |
|---------------|------------|
| Mar. 13, 2020 | New policy |
|---------------|------------|

Applicable Procedure Codes

| | |
|-------|--|
| 20560 | Needle insertion(s) without injection(s); 1 or 2 muscle(s) |
| 20561 | Needle insertion(s) without injection(s); 3 or more muscles |
| 97810 | Acupuncture, 1 or more needles; with electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient |
| 97811 | Acupuncture, 1 or more needles; without electrical stimulation, each additional 15 minutes of personal one-on-one contact with the patient, with re-insertion of needle(s) (List separately in addition to code for primary procedure) |
| 97813 | Acupuncture, 1 or more needles; with electrical stimulation, initial 15 minutes of personal one-on-one contact with the patient |
| 97814 | Acupuncture, 1 or more needles; with electrical stimulation, each additional 15 minutes of personal one-on-one contact with the patient, with re-insertion of needle(s) (List separately in addition to code for primary procedure) |

Applicable Diagnosis Codes

| | |
|-------|---------------|
| M54.5 | Low back pain |
|-------|---------------|

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Amniotic Membrane Transplantation for Ocular Reconstruction

Last Review Date: April 10, 2020

Number: MG.MM.SU.49c

Medical Guideline Disclaimer

Property of EmblemHealth. All rights reserved. The treating physician or primary care provider must submit to EmblemHealth the clinical evidence that the patient meets the criteria for the treatment or surgical procedure. Without this documentation and information, EmblemHealth will not be able to properly review the request for prior authorization. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer-reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes, and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary. If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication. EmblemHealth Services Company LLC, ("EmblemHealth") has adopted the herein policy in providing management, administrative and other services to Health Insurance Plan of Greater New York and Group Health Incorporated, related to health benefit plans offered by these entities. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

Definitions

| | |
|--|--|
| Amniotic membrane transplantation (AMT) | Consists of the permanent implantation of a human amniotic membrane product classified by the FDA as a Human Cell and Tissue-based Product (HCT/P) derived from Donated Human Tissue. It is intended for ocular wound repair and healing. |
| Corneal epithelial device (E.g., PROKERA®) | Consists of a plastic ophthalmic conformer, which incorporates a cryopreserved amniotic membrane to retain the natural biological properties of the membrane. It is intended for use in eyes in which ocular surface cells have been damaged, or underlying stroma is inflamed or scarred. The device is temporarily overlaid on the ocular surface remaining in the eye for up to 30 days or until the surface has healed or the membrane has dissolved. |
| Limbal deficiency | Hypofunction or total loss of stem cells |

Guideline

Members with limbal deficiency who are refractory to conventional treatment are eligible for coverage of AMT for ocular surface reconstruction as follows:

- A. Stem cell loss (total)** — in one eye secondary to any:
 1. Chemical / thermal ocular surface injuries
 2. Contact lens-induced keratopathy or toxic effects from lens-cleaning solutions
 3. Multiple surgeries or cryotherapies to limbal region
 4. Stevens-Johnson syndrome

- B. Stem cell hypofunction** — in one or both eyes secondary to any:
 1. Aniridia (hereditary)
 2. Bullous keratopathy
 3. Chronic limbitis
 4. Keratitis associated with multiple endocrine deficiency (hereditary)
 5. Neurotrophic keratopathy (neuronal or ischemic)
 6. Peripheral corneal ulcerative keratitis
 7. Pterygium and pseudopterygium

- C. Conjunctival reconstruction/revision of scars and symblepharon
- D. Corneal ulcers/thinning perforation/persistent corneal epithelial defect

Note: EmblemHealth considers corneal bandaging with PROKERA® to be a clinically appropriate step component within a step protocol prior to transplant. The bandage is indicated for conditions in which ocular surface cells have been damaged, or underlying stroma is inflamed and scarred. The preferred practice recommendation, according to the American Academy of Ophthalmology, is a step protocol beginning with topical agents, emulsions, gels/ointments with progression to systemic antiinflammatory medications (e.g., corticosteroids) as the severity of the dry eye increases.

Limitations/Exclusions

The plan does not consider AMT or the use of corneal-epithelial devices to be medically necessary for the treatment of dry eye syndrome.

Amniotic membrane must be cleared by, or registered with, the U.S. Food and Drug Administration (FDA) for sutureless application of the eye (e.g., corneal bandage).

Revision History

| | |
|---------------|--|
| Apr. 10, 2020 | added persistent corneal epithelial defect as a covered indication |
| Mar. 9, 2018 | added that the Prokera corneal bandage is covered |

Applicable Procedure Codes

| | |
|-------|---|
| 65778 | Placement of amniotic membrane on the ocular surface; without sutures |
| 65779 | Placement of amniotic membrane on the ocular surface; single layer, sutured |
| 65781 | Ocular surface reconstruction; limbal stem cell allograft (eg, cadaveric or living donor) |
| 65782 | Ocular surface reconstruction; limbal conjunctival autograft (includes obtaining graft) |
| 65780 | Ocular surface reconstruction; amniotic membrane transplantation, multiple layers |
| V2790 | Amniotic membrane for surgical reconstruction, per procedure |

Applicable ICD-10 Diagnosis Codes

| | |
|---------|--|
| H11.001 | Unspecified pterygium of right eye |
| H11.002 | Unspecified pterygium of left eye |
| H11.003 | Unspecified pterygium of eye, bilateral |
| H11.009 | Unspecified pterygium of unspecified eye |
| H11.011 | Amyloid pterygium of right eye |
| H11.012 | Amyloid pterygium of left eye |
| H11.013 | Amyloid pterygium of eye, bilateral |
| H11.019 | Amyloid pterygium of unspecified eye |
| H11.021 | Central pterygium of right eye |
| H11.022 | Central pterygium of left eye |
| H11.023 | Central pterygium of eye, bilateral |
| H11.029 | Central pterygium of unspecified eye |
| H11.031 | Double pterygium of right eye |
| H11.032 | Double pterygium of left eye |

| | |
|---------|--|
| H11.033 | Double pterygium of eye, bilateral |
| H11.039 | Double pterygium of unspecified eye |
| H11.041 | Peripheral pterygium, stationary, right eye |
| H11.042 | Peripheral pterygium, stationary, left eye |
| H11.043 | Peripheral pterygium, stationary, bilateral |
| H11.049 | Peripheral pterygium, stationary, unspecified eye |
| H11.051 | Peripheral pterygium, progressive, right eye |
| H11.052 | Peripheral pterygium, progressive, left eye |
| H11.053 | Peripheral pterygium, progressive, bilateral |
| H11.059 | Peripheral pterygium, progressive, unspecified eye |
| H11.061 | Recurrent pterygium of right eye |
| H11.062 | Recurrent pterygium of left eye |
| H11.063 | Recurrent pterygium of eye, bilateral |
| H11.069 | Recurrent pterygium of unspecified eye |
| H11.10 | Unspecified conjunctival degenerations |
| H11.231 | Symblepharon, right eye |
| H11.232 | Symblepharon, left eye |
| H11.233 | Symblepharon, bilateral |
| H11.239 | Symblepharon, unspecified eye |
| H11.811 | Pseudopterygium of conjunctiva, right eye |
| H11.812 | Pseudopterygium of conjunctiva, left eye |
| H11.813 | Pseudopterygium of conjunctiva, bilateral |
| H11.819 | Pseudopterygium of conjunctiva, unspecified eye |
| H16.001 | Unspecified corneal ulcer, right eye |
| H16.002 | Unspecified corneal ulcer, left eye |
| H16.003 | Unspecified corneal ulcer, bilateral |
| H16.009 | Unspecified corneal ulcer, unspecified eye |
| H16.011 | Central corneal ulcer, right eye |
| H16.012 | Central corneal ulcer, left eye |
| H16.013 | Central corneal ulcer, bilateral |
| H16.019 | Central corneal ulcer, unspecified eye |
| H16.021 | Ring corneal ulcer, right eye |
| H16.022 | Ring corneal ulcer, left eye |
| H16.023 | Ring corneal ulcer, bilateral |
| H16.029 | Ring corneal ulcer, unspecified eye |
| H16.031 | Corneal ulcer with hypopyon, right eye |
| H16.032 | Corneal ulcer with hypopyon, left eye |
| H16.033 | Corneal ulcer with hypopyon, bilateral |
| H16.039 | Corneal ulcer with hypopyon, unspecified eye |
| H16.041 | Marginal corneal ulcer, right eye |
| H16.042 | Marginal corneal ulcer, left eye |
| H16.043 | Marginal corneal ulcer, bilateral |

| | |
|---------|---|
| H16.049 | Marginal corneal ulcer, unspecified eye |
| H16.051 | Mooren's corneal ulcer, right eye |
| H16.052 | Mooren's corneal ulcer, left eye |
| H16.053 | Mooren's corneal ulcer, bilateral |
| H16.059 | Mooren's corneal ulcer, unspecified eye |
| H16.061 | Mycotic corneal ulcer, right eye |
| H16.062 | Mycotic corneal ulcer, left eye |
| H16.063 | Mycotic corneal ulcer, bilateral |
| H16.069 | Mycotic corneal ulcer, unspecified eye |
| H16.071 | Perforated corneal ulcer, right eye |
| H16.072 | Perforated corneal ulcer, left eye |
| H16.073 | Perforated corneal ulcer, bilateral |
| H16.079 | Perforated corneal ulcer, unspecified eye |
| H16.231 | Neurotrophic keratoconjunctivitis, right eye |
| H16.232 | Neurotrophic keratoconjunctivitis, left eye |
| H16.233 | Neurotrophic keratoconjunctivitis, bilateral |
| H16.239 | Neurotrophic keratoconjunctivitis, unspecified eye |
| H18.10 | Bullous keratopathy, unspecified eye |
| H18.11 | Bullous keratopathy, right eye |
| H18.12 | Bullous keratopathy, left eye |
| H18.13 | Bullous keratopathy, bilateral |
| H18.40 | Unspecified corneal degeneration |
| H18.421 | Band keratopathy, right eye |
| H18.422 | Band keratopathy, left eye |
| H18.423 | Band keratopathy, bilateral |
| H18.429 | Band keratopathy, unspecified eye |
| H18.461 | Peripheral corneal degeneration, right eye |
| H18.462 | Peripheral corneal degeneration, left eye |
| H18.463 | Peripheral corneal degeneration, bilateral |
| H18.469 | Peripheral corneal degeneration, unspecified eye |
| H18.49 | Other corneal degeneration |
| H18.50 | Unspecified hereditary corneal dystrophies |
| H18.51 | Endothelial corneal dystrophy |
| H18.52 | Epithelial (juvenile) corneal dystrophy |
| H18.53 | Granular corneal dystrophy |
| H18.54 | Lattice corneal dystrophy |
| H18.55 | Macular corneal dystrophy |
| H18.59 | Other hereditary corneal dystrophies |
| H18.821 | Corneal disorder due to contact lens, right eye |
| H18.822 | Corneal disorder due to contact lens, left eye |
| H18.823 | Corneal disorder due to contact lens, bilateral |
| H18.829 | Corneal disorder due to contact lens, unspecified eye |

| | |
|----------|--|
| H18.831 | Recurrent erosion of cornea, right eye |
| H18.832 | Recurrent erosion of cornea, left eye |
| H18.833 | Recurrent erosion of cornea, bilateral |
| H18.839 | Recurrent erosion of cornea, unspecified eye |
| L51.1 | Stevens-Johnson syndrome |
| T26.10xA | Burn of cornea and conjunctival sac, unspecified eye, initial encounter |
| T26.11xA | Burn of cornea and conjunctival sac, right eye, initial encounter |
| T26.12xA | Burn of cornea and conjunctival sac, left eye, initial encounter |
| T26.60xA | Corrosion of cornea and conjunctival sac, unspecified eye, initial encounter |
| T26.61xA | Corrosion of cornea and conjunctival sac, right eye, initial encounter |
| T26.62xA | Corrosion of cornea and conjunctival sac, left eye, initial encounter |

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Bone Mineral Density Studies in Adult Populations

Last Review Date: May. 8, 2020

Number: MG.MM.RA10c

Medical Guideline Disclaimer

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Definitions

1. **Bone mineral density (BMD) studies** (aka bone mass measurement) — radiologic, radioisotopic or other procedures that quantify BMD, detect bone loss or determine bone quality. BMD measurements are used to predict the risk of fractures. Studies are typically performed using a bone densitometer or a bone sonometer system and include a physician's interpretation of the results.
2. **BMD measurement sites**
 - a. [Central](#) (axial) — hip and spine
 - b. [Peripheral](#) (appendicular) — e.g., forearm, finger, heel

3. **BMD technologies**

EmblemHealth recognizes the following modalities for central or peripheral sites as clinically effective:

- a. Dual energy X-ray absorptiometry (DEXA or DXA)
- b. Quantitative computed tomography (QCT)
- c. Single energy X-ray absorptiometry (SEXA)
- d. Ultrasound (sonometry) (e.g., Achilles + Bone Sonometer, Sahara, SoundScan)

4. **BMD utility**

- a. Assessment — fracture risk
- b. Diagnosis — osteoporosis, [vertebral fracture](#)
- c. [Therapeutic guidance/follow-up/Serial measurements](#)
 - i. To determine whether bone loss treatment should be initiated
 - ii. Baseline for future monitoring
 - iii. Monitoring of drug therapies known to adversely affect bone density
 - iv. Osteoporosis drug therapy:
 1. Response (e.g., increase or stability of bone density)
 2. Non-response (e.g., findings of bone density loss suggesting the need for reevaluation of treatment and evaluation for secondary causes)

Guideline

Members are eligible for coverage of BMD Studies using FDA approved technologies when any of the following criteria sets (#s 1–4) is applicable (# 5 for [frequency guidance](#)):

1. **Peripheral studies** (forearm site only); any of the following:
 - a. Hip/spine cannot be measured or interpreted.
 - b. Asymptomatic primary hyperparathyroidism (PHPT) to facilitate surgical decision-making
 - c. Obesity precludes DXA measurement accuracy (e.g., member's weight/size exceeds scanning bed capacity)
2. **Central studies**; any of the following:
 - a. Women ≥ 65
 - b. Females in menopausal transition (late 40s)
 - c. Postmenopausal females > 50 years
 - d. Women during the menopausal transition with clinical risk factors for fracture (e.g., low body weight, prior fracture, or high-risk medication use)*
 - e. Men ≥ 70
 - f. Men < 70 with clinical risk factors for fracture
 - g. Transgender and gender non-conforming members
 - h. Presence of a fragility fracture
 - i. Presence of a disease or condition associated with low bone mass or bone loss
 - j. Current drug therapy associated with low bone mass or bone loss
 - k. Monitoring of treatment effect
 - l. Any member not receiving therapy in whom evidence of bone loss would lead to treatment

* Women discontinuing estrogen should be considered for bone density testing

3. **Simultaneous axial (central) and appendicular (peripheral) Studies**; only in the following limited circumstances:
 - a. Axial is medically necessary to obtain a baseline for monitoring if osteoporosis is identified with appendicular scan
 - b. Appendicular is medically necessary when artifacts obscure measurement at the axial site
 - c. Member is diagnosed with uncorrected PHPT
4. **Vertebral Fracture Assessment (VFA) with densitometric spine imaging to detect vertebral fractures**

The Plan will consider DXA VFA only when the results may influence clinical management

- a. Postmenopausal women with low bone mass by BMD criteria plus any:
 - i. ≥ 70 years
 - ii. Historical height loss > 4 cm (1.6 in)
 - iii. Prospective height loss > 2 cm (0.8 in)
 - iv. Self-reported vertebral fracture (not previously documented)
 - v. ≥ 2 of the following:
 1. 60–69 years
 2. Self-reported prior non-vertebral fracture
 3. Historical height loss of 2–4 cm
 4. Chronic systemic diseases associated with increased risk of vertebral fractures (e.g., moderate to severe COPD or COAD, seropositive rheumatoid arthritis, Crohn's disease)

- b. Men with low bone mass by BMD criteria plus any:
 - i. ≥ 80 years
 - ii. Historical height loss > 6 cm (2.4 in)
 - iii. Prospective height loss > 3 cm (1.2 in)
 - iv. Self-reported vertebral fracture (not previously documented)
 - v. ≥ 2 of the following;
 - 1. 70–79 years
 - 2. Self-reported prior non-vertebral fracture
 - 3. Historical height loss of 3–6 cm
 - 4. On pharmacologic androgen deprivation therapy or following orchiectomy
 - 5. Chronic systemic diseases associated with increased risk of vertebral fractures (e.g., moderate to severe COPD or COAD, seropositive rheumatoid arthritis, Crohn’s disease)
- c. Women or men on chronic glucocorticoid therapy (equivalent to ≥ 5 mg of prednisone daily $\times \geq 3$ months)
- d. Postmenopausal women or men with osteoporosis by BMD criteria, if documentation of one or more vertebral fractures will alter clinical management

5. Serial Measurement Frequency

| Time-Frame Intervals | Indications |
|---|--|
| 1x within 24-months (Prerequisite: 23-month lapse since prior study) | BMD studies one year after initiation (or change of therapy) is appropriate with longer intervals once therapeutic effect is established. |
| 2x within 24 months (Prerequisite: 11-month lapse since prior study) | Any: <ol style="list-style-type: none"> 1. Baseline bone mass measurement — for future monitoring (when the initial test utilized differs from the proposed testing modality). 2. Monitoring — long-term glucocorticoid (steroid) therapy or anticonvulsant therapy > 3 months duration. 3. Monitoring — uncorrected primary hyperparathyroidism. |
| $> 2x$ within 24-months | Conditions associated with rapid bone loss <ol style="list-style-type: none"> 1. Glucocorticoid therapy (≥ 5 mg of prednisone daily $\times \geq 3$ months) 2. Follow up to assess FDA-approved osteoporosis drug therapy until a response to such therapy has been documented over time. |

Limitations/Exclusions

1. Tests not ordered by the physician/qualified non-physician practitioner, who is treating the beneficiary, are not reasonable and necessary. It is not medically necessary to perform > 1 type of test in any individual unless a different confirmatory test is performed as a baseline for future monitoring.
2. It is not medically necessary to have both peripheral and axial tests performed on the same day. Peripheral BMD studies are not considered medically necessary for PHPT if performed on any body part other than the cortical bone (e.g. fingers, ultrasound of the heel, etc.).
3. DXA screening as a BMD-adjunct for vertebral fractures is not considered medically necessary (except in the limited circumstances described in #4 above), as the precision is low precision reference database inadequate.
4. Single and dual photon absorptiometry (CPT codes 78350, 78351) are not considered medically necessary, as they have become obsolete within the medical community.
5. Bone density measurement using pulse-echo ultrasound (e.g., Bindex® point-of-care hand-held device) is considered investigational, as its effectiveness has not been established. (CPT 0508T). (Note: Medicare members are covered as exception eff. Aug. 8, 2020)

Revision History

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|----------------|--|
| May 8, 2020 | Added Medicare coverage for pulse-echo ultrasound (e.g., Bindex® point-of-care hand-held device) eff. 8/8 2020 |
| Sept. 13, 2019 | Added coverage for transgender and gender non-conforming members Added Bindex® point-of-care hand-held device to Limitations/Exclusions |

Applicable Procedure Codes

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|-------|--|
| 0508T | Pulse-echo ultrasound bone density measurement resulting in indicator of axial bone mineral density, tibia (cover for Medicare only, eff. 08/08/2020) |
| 0554T | Bone strength and fracture risk using finite element analysis of functional data, and bone-mineral density, utilizing data from a computed tomography scan; retrieval and transmission of the scan data, assessment of bone strength and fracture risk and bone mineral density, interpretation and report (cover for Medicare only) |
| 0555T | Bone strength and fracture risk using finite element analysis of functional data, and bone-mineral density, utilizing data from a computed tomography scan; retrieval and transmission of the scan data (cover for Medicare only) |
| 0556T | Bone strength and fracture risk using finite element analysis of functional data, and bone-mineral density, utilizing data from a computed tomography scan; assessment of bone strength and fracture risk and bone mineral density (cover for Medicare only) |
| 0557T | Bone strength and fracture risk using finite element analysis of functional data, and bone-mineral density, utilizing data from a computed tomography scan; interpretation and report (cover for Medicare only) |
| 0558T | Computed tomography scan taken for the purpose of biomechanical computed tomography analysis (cover for Medicare only) |
| 76977 | Ultrasound bone density measurement and interpretation, peripheral site(s), any method |
| 77078 | Computed tomography, bone mineral density study, 1 or more sites; axial skeleton (eg, hips, pelvis, spine) |
| 77080 | Dual-energy x-ray absorptiometry (DXA), bone density study, 1 or more sites; axial skeleton (eg, hips, pelvis, spine) |
| 77081 | Dual-energy x-ray absorptiometry (DXA), bone density study, 1 or more sites; appendicular skeleton (peripheral) (eg, radius, wrist, heel) |
| 77085 | Dual-energy X-ray absorptiometry (DXA), bone density study, 1 or more sites; axial skeleton (eg, hips, pelvis, spine), including vertebral fracture assessment |
| 77086 | Vertebral fracture assessment via dual-energy X-ray absorptiometry (DXA) |

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| G0130 | Single energy x-ray absorptiometry (SEXA) bone density study, one or more sites; appendicular skeleton (peripheral) (eg, radius, wrist, heel) |
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Applicable ICD-10 Diagnosis Codes

| | |
|----------------|--|
| E05.00 | Thyrotoxicosis with diffuse goiter without thyrotoxic crisis or storm |
| E05.01 | Thyrotoxicosis with diffuse goiter with thyrotoxic crisis or storm |
| E05.10 | Thyrotoxicosis with toxic single thyroid nodule without thyrotoxic crisis or storm |
| E05.11 | Thyrotoxicosis with toxic single thyroid nodule with thyrotoxic crisis or storm |
| E05.20 | Thyrotoxicosis with toxic multinodular goiter without thyrotoxic crisis or storm |
| E05.21 | Thyrotoxicosis with toxic multinodular goiter with thyrotoxic crisis or storm |
| E05.30 | Thyrotoxicosis from ectopic thyroid tissue without thyrotoxic crisis or storm |
| E05.31 | Thyrotoxicosis from ectopic thyroid tissue with thyrotoxic crisis or storm |
| E05.40 | Thyrotoxicosis factitia without thyrotoxic crisis or storm |
| E05.41 | Thyrotoxicosis factitia with thyrotoxic crisis or storm |
| E05.80 | Other thyrotoxicosis without thyrotoxic crisis or storm |
| E05.81 | Other thyrotoxicosis with thyrotoxic crisis or storm |
| E05.90 | Thyrotoxicosis, unspecified without thyrotoxic crisis or storm |
| E05.91 | Thyrotoxicosis, unspecified with thyrotoxic crisis or storm |
| E07.0 | Hypersecretion of calcitonin |
| E21.0 | Primary hyperparathyroidism |
| E21.1 | Secondary hyperparathyroidism, not elsewhere classified |
| E21.2 | Other hyperparathyroidism |
| E21.3 | Hyperparathyroidism, unspecified |
| E23.0 | Hypopituitarism |
| E24.0 | Pituitary-dependent Cushing's disease |
| E24.1 | Nelson's syndrome |
| E24.2 | Drug-induced Cushing's syndrome |
| E24.3 | Ectopic ACTH syndrome |
| E24.4 | Alcohol-induced pseudo-Cushing's syndrome |
| E24.8 | Other Cushing's syndrome |
| E24.9 | Cushing's syndrome, unspecified |
| E28.310 | Symptomatic premature menopause |
| E28.319 | Asymptomatic premature menopause |
| E28.39 | Other primary ovarian failure |
| E29.1 | Testicular hypofunction |
| E34.2 | Ectopic hormone secretion, not elsewhere classified |
| E55.9 | Vitamin D deficiency, unspecified |
| E83.81 | Hungry bone syndrome |
| E89.40 | Asymptomatic postprocedural ovarian failure |
| E89.41 | Symptomatic postprocedural ovarian failure |
| J44.9 | Chronic obstructive pulmonary disease, unspecified |
| K90.9 | Intestinal malabsorption, unspecified |

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| M48.40xA | Fatigue fracture of vertebra, site unspecified, initial encounter for fracture |
| M48.41xA | Fatigue fracture of vertebra, occipito-atlanto-axial region, initial encounter for fracture |
| M48.42xA | Fatigue fracture of vertebra, cervical region, initial encounter for fracture |
| M48.43xA | Fatigue fracture of vertebra, cervicothoracic region, initial encounter for fracture |
| M48.44xA | Fatigue fracture of vertebra, thoracic region, initial encounter for fracture |
| M48.45xA | Fatigue fracture of vertebra, thoracolumbar region, initial encounter for fracture |
| M48.46xA | Fatigue fracture of vertebra, lumbar region, initial encounter for fracture |
| M48.47xA | Fatigue fracture of vertebra, lumbosacral region, initial encounter for fracture |
| M48.48xA | Fatigue fracture of vertebra, sacral and sacrococcygeal region, initial encounter for fracture |
| M48.50xA | Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture |
| M48.50xD | Collapsed vertebra, not elsewhere classified, site unspecified, subsequent encounter for fracture with routine healing |
| M48.50xG | Collapsed vertebra, not elsewhere classified, site unspecified, subsequent encounter for fracture with delayed healing |
| M48.51xA | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, initial encounter for fracture |
| M48.51xD | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, subsequent encounter for fracture with routine healing |
| M48.51xG | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, subsequent encounter for fracture with delayed healing |
| M48.52xA | Collapsed vertebra, not elsewhere classified, cervical region, initial encounter for fracture |
| M48.52xD | Collapsed vertebra, not elsewhere classified, cervical region, subsequent encounter for fracture with routine healing |
| M48.52xG | Collapsed vertebra, not elsewhere classified, cervical region, subsequent encounter for fracture with delayed healing |
| M48.53xA | Collapsed vertebra, not elsewhere classified, cervicothoracic region, initial encounter for fracture |
| M48.53xD | Collapsed vertebra, not elsewhere classified, cervicothoracic region, subsequent encounter for fracture with routine healing |
| M48.53xG | Collapsed vertebra, not elsewhere classified, cervicothoracic region, subsequent encounter for fracture with delayed healing |
| M48.54xA | Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture |
| M48.54xD | Collapsed vertebra, not elsewhere classified, thoracic region, subsequent encounter for fracture with routine healing |
| M48.54xG | Collapsed vertebra, not elsewhere classified, thoracic region, subsequent encounter for fracture with delayed healing |
| M48.55xA | Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture |
| M48.55xD | Collapsed vertebra, not elsewhere classified, thoracolumbar region, subsequent encounter for fracture with routine healing |
| M48.55xG | Collapsed vertebra, not elsewhere classified, thoracolumbar region, subsequent encounter for fracture with delayed healing |
| M48.56xA | Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture |
| M48.56xD | Collapsed vertebra, not elsewhere classified, lumbar region, subsequent encounter for fracture with routine healing |
| M48.56xG | Collapsed vertebra, not elsewhere classified, lumbar region, subsequent encounter for fracture with delayed healing |
| M48.57xA | Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture |
| M48.57xD | Collapsed vertebra, not elsewhere classified, lumbosacral region, subsequent encounter for fracture with routine healing |
| M48.57xG | Collapsed vertebra, not elsewhere classified, lumbosacral region, subsequent encounter for fracture with delayed healing |
| M48.58xA | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, initial encounter for fracture |
| M48.58xD | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, subsequent encounter for fracture with routine healing |
| M48.58xG | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, subsequent encounter for fracture with delayed healing |
| M54.5 | Low back pain |
| M54.6 | Pain in thoracic spine |

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| M54.89 | Other dorsalgia |
| M54.9 | Dorsalgia, unspecified |
| M80.00xA | Age-related osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture |
| M80.00xD | Age-related osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with routine healing |
| M80.00xG | Age-related osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with delayed healing |
| M80.00xK | Age-related osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with nonunion |
| M80.00xP | Age-related osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with malunion |
| M80.011A | Age-related osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture |
| M80.011D | Age-related osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with routine healing |
| M80.011G | Age-related osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with delayed healing |
| M80.011K | Age-related osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with nonunion |
| M80.011P | Age-related osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with malunion |
| M80.012A | Age-related osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture |
| M80.012D | Age-related osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with routine healing |
| M80.012G | Age-related osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with delayed healing |
| M80.012K | Age-related osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with nonunion |
| M80.012P | Age-related osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with malunion |
| M80.019A | Age-related osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture |
| M80.019D | Age-related osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with routine healing |
| M80.019G | Age-related osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with delayed healing |
| M80.019K | Age-related osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with nonunion |
| M80.019P | Age-related osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with malunion |
| M80.021A | Age-related osteoporosis with current pathological fracture, right humerus, initial encounter for fracture |
| M80.021D | Age-related osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with routine healing |
| M80.021G | Age-related osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with delayed healing |
| M80.021K | Age-related osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with nonunion |
| M80.021P | Age-related osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with malunion |
| M80.022A | Age-related osteoporosis with current pathological fracture, left humerus, initial encounter for fracture |
| M80.022D | Age-related osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with routine healing |
| M80.022G | Age-related osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with delayed healing |
| M80.022K | Age-related osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with |

| | |
|-----------------|--|
| | nonunion |
| M80.022P | Age-related osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with malunion |
| M80.029A | Age-related osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture |
| M80.029D | Age-related osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with routine healing |
| M80.029G | Age-related osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with delayed healing |
| M80.029K | Age-related osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with nonunion |
| M80.029P | Age-related osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with malunion |
| M80.031A | Age-related osteoporosis with current pathological fracture, right forearm, initial encounter for fracture |
| M80.031D | Age-related osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with routine healing |
| M80.031G | Age-related osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with delayed healing |
| M80.031K | Age-related osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with nonunion |
| M80.031P | Age-related osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with malunion |
| M80.032A | Age-related osteoporosis with current pathological fracture, left forearm, initial encounter for fracture |
| M80.032D | Age-related osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with routine healing |
| M80.032G | Age-related osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with delayed healing |
| M80.032K | Age-related osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with nonunion |
| M80.032P | Age-related osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with malunion |
| M80.039A | Age-related osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture |
| M80.039D | Age-related osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with routine healing |
| M80.039G | Age-related osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with delayed healing |
| M80.039K | Age-related osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with nonunion |
| M80.039P | Age-related osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with malunion |
| M80.041A | Age-related osteoporosis with current pathological fracture, right hand, initial encounter for fracture |
| M80.041D | Age-related osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with routine healing |
| M80.041G | Age-related osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with delayed healing |
| M80.041K | Age-related osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with nonunion |
| M80.041P | Age-related osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with malunion |
| M80.042A | Age-related osteoporosis with current pathological fracture, left hand, initial encounter for fracture |
| M80.042D | Age-related osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with routine healing |
| M80.042G | Age-related osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with delayed healing |

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| M80.042K | Age-related osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with nonunion |
| M80.042P | Age-related osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with malunion |
| M80.049A | Age-related osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture |
| M80.049D | Age-related osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with routine healing |
| M80.049G | Age-related osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with delayed healing |
| M80.049K | Age-related osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with nonunion |
| M80.049P | Age-related osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with malunion |
| M80.051A | Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture |
| M80.051D | Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with routine healing |
| M80.051G | Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with delayed healing |
| M80.051K | Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with nonunion |
| M80.051P | Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with malunion |
| M80.052A | Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture |
| M80.052D | Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with routine healing |
| M80.052G | Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with delayed healing |
| M80.052K | Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with nonunion |
| M80.052P | Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with malunion |
| M80.059A | Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture |
| M80.059D | Age-related osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with routine healing |
| M80.059G | Age-related osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with delayed healing |
| M80.059K | Age-related osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with nonunion |
| M80.059P | Age-related osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with malunion |
| M80.061A | Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture |
| M80.061D | Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with routine healing |
| M80.061G | Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with delayed healing |
| M80.061K | Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with nonunion |
| M80.061P | Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with malunion |
| M80.062A | Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture |
| M80.062D | Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with routine healing |
| M80.062G | Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with delayed healing |
| M80.062K | Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with |

| | |
|-----------------|---|
| | nonunion |
| M80.062P | Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with malunion |
| M80.069A | Age-related osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture |
| M80.069D | Age-related osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with routine healing |
| M80.069G | Age-related osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with delayed healing |
| M80.069K | Age-related osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with nonunion |
| M80.069P | Age-related osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with malunion |
| M80.071A | Age-related osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture |
| M80.071D | Age-related osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with routine healing |
| M80.071G | Age-related osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with delayed healing |
| M80.071K | Age-related osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with nonunion |
| M80.071P | Age-related osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with malunion |
| M80.072A | Age-related osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture |
| M80.072D | Age-related osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with routine healing |
| M80.072G | Age-related osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with delayed healing |
| M80.072K | Age-related osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with nonunion |
| M80.072P | Age-related osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with malunion |
| M80.079A | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture |
| M80.079D | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with routine healing |
| M80.079G | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with delayed healing |
| M80.079K | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with nonunion |
| M80.079P | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with malunion |
| M80.08xA | Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture |
| M80.08XD | Age-related osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with routine healing |
| M80.08XG | Age-related osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with delayed healing |
| M80.08XK | Age-related osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with nonunion |
| M80.08XP | Age-related osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with malunion |
| M80.80xA | Other osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture |
| M80.80xD | Other osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with routine healing |
| M80.80xG | Other osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with delayed healing |

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| M80.80xK | Other osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with nonunion |
| M80.80xP | Other osteoporosis with current pathological fracture, unspecified site, subsequent encounter for fracture with malunion |
| M80.811A | Other osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture |
| M80.811D | Other osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with routine healing |
| M80.811G | Other osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with delayed healing |
| M80.811K | Other osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with nonunion |
| M80.811P | Other osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with malunion |
| M80.812A | Other osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture |
| M80.812D | Other osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with routine healing |
| M80.812G | Other osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with delayed healing |
| M80.812K | Other osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with nonunion |
| M80.812P | Other osteoporosis with current pathological fracture, left shoulder, subsequent encounter for fracture with malunion |
| M80.819A | Other osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture |
| M80.819D | Other osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with routine healing |
| M80.819G | Other osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with delayed healing |
| M80.819K | Other osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with nonunion |
| M80.819P | Other osteoporosis with current pathological fracture, unspecified shoulder, subsequent encounter for fracture with malunion |
| M80.821A | Other osteoporosis with current pathological fracture, right humerus, initial encounter for fracture |
| M80.821D | Other osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with routine healing |
| M80.821G | Other osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with delayed healing |
| M80.821K | Other osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with nonunion |
| M80.821P | Other osteoporosis with current pathological fracture, right humerus, subsequent encounter for fracture with malunion |
| M80.822A | Other osteoporosis with current pathological fracture, left humerus, initial encounter for fracture |
| M80.822D | Other osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with routine healing |
| M80.822G | Other osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with delayed healing |
| M80.822K | Other osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with nonunion |
| M80.822P | Other osteoporosis with current pathological fracture, left humerus, subsequent encounter for fracture with malunion |
| M80.829A | Other osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture |
| M80.829D | Other osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with routine healing |
| M80.829G | Other osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with delayed healing |
| M80.829K | Other osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with nonunion |
| M80.829P | Other osteoporosis with current pathological fracture, unspecified humerus, subsequent encounter for fracture with malunion |
| M80.831A | Other osteoporosis with current pathological fracture, right forearm, initial encounter for fracture |
| M80.831D | Other osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with routine |

| | |
|-----------------|--|
| | healing |
| M80.831G | Other osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with delayed healing |
| M80.831K | Other osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with nonunion |
| M80.831P | Other osteoporosis with current pathological fracture, right forearm, subsequent encounter for fracture with malunion |
| M80.832A | Other osteoporosis with current pathological fracture, left forearm, initial encounter for fracture |
| M80.832D | Other osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with routine healing |
| M80.832G | Other osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with delayed healing |
| M80.832K | Other osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with nonunion |
| M80.832P | Other osteoporosis with current pathological fracture, left forearm, subsequent encounter for fracture with malunion |
| M80.839A | Other osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture |
| M80.839D | Other osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with routine healing |
| M80.839G | Other osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with delayed healing |
| M80.839K | Other osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with nonunion |
| M80.839P | Other osteoporosis with current pathological fracture, unspecified forearm, subsequent encounter for fracture with malunion |
| M80.841A | Other osteoporosis with current pathological fracture, right hand, initial encounter for fracture |
| M80.841D | Other osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with routine healing |
| M80.841G | Other osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with delayed healing |
| M80.841K | Other osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with nonunion |
| M80.841P | Other osteoporosis with current pathological fracture, right hand, subsequent encounter for fracture with malunion |
| M80.842A | Other osteoporosis with current pathological fracture, left hand, initial encounter for fracture |
| M80.842D | Other osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with routine healing |
| M80.842G | Other osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with delayed healing |
| M80.842K | Other osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with nonunion |
| M80.842P | Other osteoporosis with current pathological fracture, left hand, subsequent encounter for fracture with malunion |
| M80.849A | Other osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture |
| M80.849D | Other osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with routine healing |
| M80.849G | Other osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with delayed healing |
| M80.849K | Other osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with nonunion |
| M80.849P | Other osteoporosis with current pathological fracture, unspecified hand, subsequent encounter for fracture with malunion |
| M80.851A | Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture |
| M80.851D | Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with routine healing |
| M80.851G | Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with delayed healing |
| M80.851K | Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with nonunion |
| M80.851P | Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with malunion |
| M80.852A | Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture |

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| M80.852D | Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with routine healing |
| M80.852G | Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with delayed healing |
| M80.852K | Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with nonunion |
| M80.852P | Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with malunion |
| M80.859A | Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture |
| M80.859D | Other osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with routine healing |
| M80.859G | Other osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with delayed healing |
| M80.859K | Other osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with nonunion |
| M80.859P | Other osteoporosis with current pathological fracture, unspecified femur, subsequent encounter for fracture with malunion |
| M80.861A | Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture |
| M80.861D | Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with routine healing |
| M80.861G | Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with delayed healing |
| M80.861K | Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with nonunion |
| M80.861P | Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with malunion |
| M80.862A | Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture |
| M80.862D | Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with routine healing |
| M80.862G | Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with delayed healing |
| M80.862K | Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with nonunion |
| M80.862P | Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with malunion |
| M80.869A | Other osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture |
| M80.869D | Other osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with routine healing |
| M80.869G | Other osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with delayed healing |
| M80.869K | Other osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with nonunion |
| M80.869P | Other osteoporosis with current pathological fracture, unspecified lower leg, subsequent encounter for fracture with malunion |
| M80.871A | Other osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture |
| M80.871D | Other osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with routine healing |
| M80.871G | Other osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with delayed healing |
| M80.871K | Other osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with nonunion |
| M80.871P | Other osteoporosis with current pathological fracture, right ankle and foot, subsequent encounter for fracture with malunion |
| M80.872A | Other osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture |
| M80.872D | Other osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with routine healing |
| M80.872G | Other osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with delayed healing |

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| M80.872K | Other osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with nonunion |
| M80.872P | Other osteoporosis with current pathological fracture, left ankle and foot, subsequent encounter for fracture with malunion |
| M80.879A | Other osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture |
| M80.879D | Other osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with routine healing |
| M80.879G | Other osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with delayed healing |
| M80.879K | Other osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with nonunion |
| M80.879P | Other osteoporosis with current pathological fracture, unspecified ankle and foot, subsequent encounter for fracture with malunion |
| M80.88xA | Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture |
| M80.88xD | Other osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with routine healing |
| M80.88xG | Other osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with delayed healing |
| M80.88xK | Other osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with nonunion |
| M80.88xP | Other osteoporosis with current pathological fracture, vertebra(e), subsequent encounter for fracture with malunion |
| M81.0 | Age-related osteoporosis without current pathological fracture |
| M81.6 | Localized osteoporosis [Lequesne] |
| M81.8 | Other osteoporosis without current pathological fracture |
| M83.0 | Puerperal osteomalacia |
| M83.1 | Senile osteomalacia |
| M83.2 | Adult osteomalacia due to malabsorption |
| M83.3 | Adult osteomalacia due to malnutrition |
| M83.4 | Aluminum bone disease |
| M83.5 | Other drug-induced osteomalacia in adults |
| M83.8 | Other adult osteomalacia |
| M83.9 | Adult osteomalacia, unspecified |
| M84.40xA | Pathological fracture, unspecified site, initial encounter for fracture |
| M84.40xD | Pathological fracture, unspecified site, subsequent encounter for fracture with routine healing |
| M84.40xG | Pathological fracture, unspecified site, subsequent encounter for fracture with delayed healing |
| M84.40xK | Pathological fracture, unspecified site, subsequent encounter for fracture with nonunion |
| M84.40xP | Pathological fracture, unspecified site, subsequent encounter for fracture with malunion |
| M84.411A | Pathological fracture, right shoulder, initial encounter for fracture |
| M84.411D | Pathological fracture, right shoulder, subsequent encounter for fracture with routine healing |
| M84.411G | Pathological fracture, right shoulder, subsequent encounter for fracture with delayed healing |
| M84.411K | Pathological fracture, right shoulder, subsequent encounter for fracture with nonunion |
| M84.411P | Pathological fracture, right shoulder, subsequent encounter for fracture with malunion |
| M84.412A | Pathological fracture, left shoulder, initial encounter for fracture |
| M84.412D | Pathological fracture, left shoulder, subsequent encounter for fracture with routine healing |
| M84.412G | Pathological fracture, left shoulder, subsequent encounter for fracture with delayed healing |
| M84.412K | Pathological fracture, left shoulder, subsequent encounter for fracture with nonunion |
| M84.412P | Pathological fracture, left shoulder, subsequent encounter for fracture with malunion |

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| M84.419A | Pathological fracture, unspecified shoulder, initial encounter for fracture |
| M84.419D | Pathological fracture, unspecified shoulder, subsequent encounter for fracture with routine healing |
| M84.419G | Pathological fracture, unspecified shoulder, subsequent encounter for fracture with delayed healing |
| M84.419K | Pathological fracture, unspecified shoulder, subsequent encounter for fracture with nonunion |
| M84.419P | Pathological fracture, unspecified shoulder, subsequent encounter for fracture with malunion |
| M84.421A | Pathological fracture, right humerus, initial encounter for fracture |
| M84.421D | Pathological fracture, right humerus, subsequent encounter for fracture with routine healing |
| M84.421G | Pathological fracture, right humerus, subsequent encounter for fracture with delayed healing |
| M84.421K | Pathological fracture, right humerus, subsequent encounter for fracture with nonunion |
| M84.421P | Pathological fracture, right humerus, subsequent encounter for fracture with malunion |
| M84.422A | Pathological fracture, left humerus, initial encounter for fracture |
| M84.422D | Pathological fracture, left humerus, subsequent encounter for fracture with routine healing |
| M84.422G | Pathological fracture, left humerus, subsequent encounter for fracture with delayed healing |
| M84.422K | Pathological fracture, left humerus, subsequent encounter for fracture with nonunion |
| M84.422P | Pathological fracture, left humerus, subsequent encounter for fracture with malunion |
| M84.429A | Pathological fracture, unspecified humerus, initial encounter for fracture |
| M84.429D | Pathological fracture, unspecified humerus, subsequent encounter for fracture with routine healing |
| M84.429G | Pathological fracture, unspecified humerus, subsequent encounter for fracture with delayed healing |
| M84.429K | Pathological fracture, unspecified humerus, subsequent encounter for fracture with nonunion |
| M84.429P | Pathological fracture, unspecified humerus, subsequent encounter for fracture with malunion |
| M84.431A | Pathological fracture, right ulna, initial encounter for fracture |
| M84.431D | Pathological fracture, right ulna, subsequent encounter for fracture with routine healing |
| M84.431G | Pathological fracture, right ulna, subsequent encounter for fracture with delayed healing |
| M84.431K | Pathological fracture, right ulna, subsequent encounter for fracture with nonunion |
| M84.431P | Pathological fracture, right ulna, subsequent encounter for fracture with malunion |
| M84.432A | Pathological fracture, left ulna, initial encounter for fracture |
| M84.432D | Pathological fracture, left ulna, subsequent encounter for fracture with routine healing |
| M84.432G | Pathological fracture, left ulna, subsequent encounter for fracture with delayed healing |
| M84.432K | Pathological fracture, left ulna, subsequent encounter for fracture with nonunion |
| M84.432P | Pathological fracture, left ulna, subsequent encounter for fracture with malunion |
| M84.433A | Pathological fracture, right radius, initial encounter for fracture |
| M84.433D | Pathological fracture, right radius, subsequent encounter for fracture with routine healing |
| M84.433G | Pathological fracture, right radius, subsequent encounter for fracture with delayed healing |
| M84.433K | Pathological fracture, right radius, subsequent encounter for fracture with nonunion |
| M84.433P | Pathological fracture, right radius, subsequent encounter for fracture with malunion |
| M84.434A | Pathological fracture, left radius, initial encounter for fracture |
| M84.434D | Pathological fracture, left radius, subsequent encounter for fracture with routine healing |
| M84.434G | Pathological fracture, left radius, subsequent encounter for fracture with delayed healing |
| M84.434K | Pathological fracture, left radius, subsequent encounter for fracture with nonunion |
| M84.434P | Pathological fracture, left radius, subsequent encounter for fracture with malunion |
| M84.439A | Pathological fracture, unspecified ulna and radius, initial encounter for fracture |
| M84.439D | Pathological fracture, unspecified ulna and radius, subsequent encounter for fracture with routine healing |

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| M84.439G | Pathological fracture, unspecified ulna and radius, subsequent encounter for fracture with delayed healing |
| M84.439K | Pathological fracture, unspecified ulna and radius, subsequent encounter for fracture with nonunion |
| M84.439P | Pathological fracture, unspecified ulna and radius, subsequent encounter for fracture with malunion |
| M84.441A | Pathological fracture, right hand, initial encounter for fracture |
| M84.441D | Pathological fracture, right hand, subsequent encounter for fracture with routine healing |
| M84.441G | Pathological fracture, right hand, subsequent encounter for fracture with delayed healing |
| M84.441K | Pathological fracture, right hand, subsequent encounter for fracture with nonunion |
| M84.441P | Pathological fracture, right hand, subsequent encounter for fracture with malunion |
| M84.442A | Pathological fracture, left hand, initial encounter for fracture |
| M84.442D | Pathological fracture, left hand, subsequent encounter for fracture with routine healing |
| M84.442G | Pathological fracture, left hand, subsequent encounter for fracture with delayed healing |
| M84.442K | Pathological fracture, left hand, subsequent encounter for fracture with nonunion |
| M84.442P | Pathological fracture, left hand, subsequent encounter for fracture with malunion |
| M84.443A | Pathological fracture, unspecified hand, initial encounter for fracture |
| M84.443D | Pathological fracture, unspecified hand, subsequent encounter for fracture with routine healing |
| M84.443G | Pathological fracture, unspecified hand, subsequent encounter for fracture with delayed healing |
| M84.443K | Pathological fracture, unspecified hand, subsequent encounter for fracture with nonunion |
| M84.443P | Pathological fracture, unspecified hand, subsequent encounter for fracture with malunion |
| M84.444A | Pathological fracture, right finger(s), initial encounter for fracture |
| M84.444D | Pathological fracture, right finger(s), subsequent encounter for fracture with routine healing |
| M84.444G | Pathological fracture, right finger(s), subsequent encounter for fracture with delayed healing |
| M84.444K | Pathological fracture, right finger(s), subsequent encounter for fracture with nonunion |
| M84.444P | Pathological fracture, right finger(s), subsequent encounter for fracture with malunion |
| M84.445A | Pathological fracture, left finger(s), initial encounter for fracture |
| M84.445D | Pathological fracture, left finger(s), subsequent encounter for fracture with routine healing |
| M84.445G | Pathological fracture, left finger(s), subsequent encounter for fracture with delayed healing |
| M84.445K | Pathological fracture, left finger(s), subsequent encounter for fracture with nonunion |
| M84.445P | Pathological fracture, left finger(s), subsequent encounter for fracture with malunion |
| M84.446A | Pathological fracture, unspecified finger(s), initial encounter for fracture |
| M84.446D | Pathological fracture, unspecified finger(s), subsequent encounter for fracture with routine healing |
| M84.446G | Pathological fracture, unspecified finger(s), subsequent encounter for fracture with delayed healing |
| M84.446K | Pathological fracture, unspecified finger(s), subsequent encounter for fracture with nonunion |
| M84.446P | Pathological fracture, unspecified finger(s), subsequent encounter for fracture with malunion |
| M84.451A | Pathological fracture, right femur, initial encounter for fracture |
| M84.451D | Pathological fracture, right femur, subsequent encounter for fracture with routine healing |
| M84.451G | Pathological fracture, right femur, subsequent encounter for fracture with delayed healing |
| M84.451K | Pathological fracture, right femur, subsequent encounter for fracture with nonunion |
| M84.451P | Pathological fracture, right femur, subsequent encounter for fracture with malunion |
| M84.452A | Pathological fracture, left femur, initial encounter for fracture |
| M84.452D | Pathological fracture, left femur, subsequent encounter for fracture with routine healing |
| M84.452G | Pathological fracture, left femur, subsequent encounter for fracture with delayed healing |
| M84.452K | Pathological fracture, left femur, subsequent encounter for fracture with nonunion |

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| M84.452P | Pathological fracture, left femur, subsequent encounter for fracture with malunion |
| M84.453A | Pathological fracture, unspecified femur, initial encounter for fracture |
| M84.453D | Pathological fracture, unspecified femur, subsequent encounter for fracture with routine healing |
| M84.453G | Pathological fracture, unspecified femur, subsequent encounter for fracture with delayed healing |
| M84.453K | Pathological fracture, unspecified femur, subsequent encounter for fracture with nonunion |
| M84.453P | Pathological fracture, unspecified femur, subsequent encounter for fracture with malunion |
| M84.454A | Pathological fracture, pelvis, initial encounter for fracture |
| M84.454D | Pathological fracture, pelvis, subsequent encounter for fracture with routine healing |
| M84.454G | Pathological fracture, pelvis, subsequent encounter for fracture with delayed healing |
| M84.454K | Pathological fracture, pelvis, subsequent encounter for fracture with nonunion |
| M84.454P | Pathological fracture, pelvis, subsequent encounter for fracture with malunion |
| M84.459A | Pathological fracture, hip, unspecified, initial encounter for fracture |
| M84.459D | Pathological fracture, hip, unspecified, subsequent encounter for fracture with routine healing |
| M84.459G | Pathological fracture, hip, unspecified, subsequent encounter for fracture with delayed healing |
| M84.459K | Pathological fracture, hip, unspecified, subsequent encounter for fracture with nonunion |
| M84.459P | Pathological fracture, hip, unspecified, subsequent encounter for fracture with malunion |
| M84.461A | Pathological fracture, right tibia, initial encounter for fracture |
| M84.461D | Pathological fracture, right tibia, subsequent encounter for fracture with routine healing |
| M84.461G | Pathological fracture, right tibia, subsequent encounter for fracture with delayed healing |
| M84.461K | Pathological fracture, right tibia, subsequent encounter for fracture with nonunion |
| M84.461P | Pathological fracture, right tibia, subsequent encounter for fracture with malunion |
| M84.462A | Pathological fracture, left tibia, initial encounter for fracture |
| M84.462D | Pathological fracture, left tibia, subsequent encounter for fracture with routine healing |
| M84.462G | Pathological fracture, left tibia, subsequent encounter for fracture with delayed healing |
| M84.462K | Pathological fracture, left tibia, subsequent encounter for fracture with nonunion |
| M84.462P | Pathological fracture, left tibia, subsequent encounter for fracture with malunion |
| M84.463A | Pathological fracture, right fibula, initial encounter for fracture |
| M84.463D | Pathological fracture, right fibula, subsequent encounter for fracture with routine healing |
| M84.463G | Pathological fracture, right fibula, subsequent encounter for fracture with delayed healing |
| M84.463K | Pathological fracture, right fibula, subsequent encounter for fracture with nonunion |
| M84.463P | Pathological fracture, right fibula, subsequent encounter for fracture with malunion |
| M84.464A | Pathological fracture, left fibula, initial encounter for fracture |
| M84.464D | Pathological fracture, left fibula, subsequent encounter for fracture with routine healing |
| M84.464G | Pathological fracture, left fibula, subsequent encounter for fracture with delayed healing |
| M84.464K | Pathological fracture, left fibula, subsequent encounter for fracture with nonunion |
| M84.464P | Pathological fracture, left fibula, subsequent encounter for fracture with malunion |
| M84.469A | Pathological fracture, unspecified tibia and fibula, initial encounter for fracture |
| M84.469D | Pathological fracture, unspecified tibia and fibula, subsequent encounter for fracture with routine healing |
| M84.469G | Pathological fracture, unspecified tibia and fibula, subsequent encounter for fracture with delayed healing |
| M84.469K | Pathological fracture, unspecified tibia and fibula, subsequent encounter for fracture with nonunion |
| M84.469P | Pathological fracture, unspecified tibia and fibula, subsequent encounter for fracture with malunion |
| M84.471A | Pathological fracture, right ankle, initial encounter for fracture |

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| M84.471D | Pathological fracture, right ankle, subsequent encounter for fracture with routine healing |
| M84.471G | Pathological fracture, right ankle, subsequent encounter for fracture with delayed healing |
| M84.471K | Pathological fracture, right ankle, subsequent encounter for fracture with nonunion |
| M84.471P | Pathological fracture, right ankle, subsequent encounter for fracture with malunion |
| M84.472A | Pathological fracture, left ankle, initial encounter for fracture |
| M84.472D | Pathological fracture, left ankle, subsequent encounter for fracture with routine healing |
| M84.472G | Pathological fracture, left ankle, subsequent encounter for fracture with delayed healing |
| M84.472K | Pathological fracture, left ankle, subsequent encounter for fracture with nonunion |
| M84.472P | Pathological fracture, left ankle, subsequent encounter for fracture with malunion |
| M84.473A | Pathological fracture, unspecified ankle, initial encounter for fracture |
| M84.473D | Pathological fracture, unspecified ankle, subsequent encounter for fracture with routine healing |
| M84.473G | Pathological fracture, unspecified ankle, subsequent encounter for fracture with delayed healing |
| M84.473K | Pathological fracture, unspecified ankle, subsequent encounter for fracture with nonunion |
| M84.473P | Pathological fracture, unspecified ankle, subsequent encounter for fracture with malunion |
| M84.474A | Pathological fracture, right foot, initial encounter for fracture |
| M84.474D | Pathological fracture, right foot, subsequent encounter for fracture with routine healing |
| M84.474G | Pathological fracture, right foot, subsequent encounter for fracture with delayed healing |
| M84.474K | Pathological fracture, right foot, subsequent encounter for fracture with nonunion |
| M84.474P | Pathological fracture, right foot, subsequent encounter for fracture with malunion |
| M84.475A | Pathological fracture, left foot, initial encounter for fracture |
| M84.475D | Pathological fracture, left foot, subsequent encounter for fracture with routine healing |
| M84.475G | Pathological fracture, left foot, subsequent encounter for fracture with delayed healing |
| M84.475K | Pathological fracture, left foot, subsequent encounter for fracture with nonunion |
| M84.475P | Pathological fracture, left foot, subsequent encounter for fracture with malunion |
| M84.476A | Pathological fracture, unspecified foot, initial encounter for fracture |
| M84.476D | Pathological fracture, unspecified foot, subsequent encounter for fracture with routine healing |
| M84.476G | Pathological fracture, unspecified foot, subsequent encounter for fracture with delayed healing |
| M84.476K | Pathological fracture, unspecified foot, subsequent encounter for fracture with nonunion |
| M84.476P | Pathological fracture, unspecified foot, subsequent encounter for fracture with malunion |
| M84.477A | Pathological fracture, right toe(s), initial encounter for fracture |
| M84.477D | Pathological fracture, right toe(s), subsequent encounter for fracture with routine healing |
| M84.477G | Pathological fracture, right toe(s), subsequent encounter for fracture with delayed healing |
| M84.477K | Pathological fracture, right toe(s), subsequent encounter for fracture with nonunion |
| M84.477P | Pathological fracture, right toe(s), subsequent encounter for fracture with malunion |
| M84.478A | Pathological fracture, left toe(s), initial encounter for fracture |
| M84.478D | Pathological fracture, left toe(s), subsequent encounter for fracture with routine healing |
| M84.478G | Pathological fracture, left toe(s), subsequent encounter for fracture with delayed healing |
| M84.478K | Pathological fracture, left toe(s), subsequent encounter for fracture with nonunion |
| M84.478P | Pathological fracture, left toe(s), subsequent encounter for fracture with malunion |
| M84.479A | Pathological fracture, unspecified toe(s), initial encounter for fracture |
| M84.479D | Pathological fracture, unspecified toe(s), subsequent encounter for fracture with routine healing |
| M84.479G | Pathological fracture, unspecified toe(s), subsequent encounter for fracture with delayed healing |

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| M84.479K | Pathological fracture, unspecified toe(s), subsequent encounter for fracture with nonunion |
| M84.479P | Pathological fracture, unspecified toe(s), subsequent encounter for fracture with malunion |
| M84.48xA | Pathological fracture, other site, initial encounter for fracture |
| M84.48xD | Pathological fracture, other site, subsequent encounter for fracture with routine healing |
| M84.48xG | Pathological fracture, other site, subsequent encounter for fracture with delayed healing |
| M84.48xK | Pathological fracture, other site, subsequent encounter for fracture with nonunion |
| M84.48xP | Pathological fracture, other site, subsequent encounter for fracture with malunion |
| M84.50xA | Pathological fracture in neoplastic disease, unspecified site, initial encounter for fracture |
| M84.50xD | Pathological fracture in neoplastic disease, unspecified site, subsequent encounter for fracture with routine healing |
| M84.50xG | Pathological fracture in neoplastic disease, unspecified site, subsequent encounter for fracture with delayed healing |
| M84.50xK | Pathological fracture in neoplastic disease, unspecified site, subsequent encounter for fracture with nonunion |
| M84.50xP | Pathological fracture in neoplastic disease, unspecified site, subsequent encounter for fracture with malunion |
| M84.511A | Pathological fracture in neoplastic disease, right shoulder, initial encounter for fracture |
| M84.511D | Pathological fracture in neoplastic disease, right shoulder, subsequent encounter for fracture with routine healing |
| M84.511G | Pathological fracture in neoplastic disease, right shoulder, subsequent encounter for fracture with delayed healing |
| M84.511K | Pathological fracture in neoplastic disease, right shoulder, subsequent encounter for fracture with nonunion |
| M84.511P | Pathological fracture in neoplastic disease, right shoulder, subsequent encounter for fracture with malunion |
| M84.512A | Pathological fracture in neoplastic disease, left shoulder, initial encounter for fracture |
| M84.512D | Pathological fracture in neoplastic disease, left shoulder, subsequent encounter for fracture with routine healing |
| M84.512G | Pathological fracture in neoplastic disease, left shoulder, subsequent encounter for fracture with delayed healing |
| M84.512K | Pathological fracture in neoplastic disease, left shoulder, subsequent encounter for fracture with nonunion |
| M84.512P | Pathological fracture in neoplastic disease, left shoulder, subsequent encounter for fracture with malunion |
| M84.519A | Pathological fracture in neoplastic disease, unspecified shoulder, initial encounter for fracture |
| M84.519D | Pathological fracture in neoplastic disease, unspecified shoulder, subsequent encounter for fracture with routine healing |
| M84.519G | Pathological fracture in neoplastic disease, unspecified shoulder, subsequent encounter for fracture with delayed healing |
| M84.519K | Pathological fracture in neoplastic disease, unspecified shoulder, subsequent encounter for fracture with nonunion |
| M84.519P | Pathological fracture in neoplastic disease, unspecified shoulder, subsequent encounter for fracture with malunion |
| M84.521A | Pathological fracture in neoplastic disease, right humerus, initial encounter for fracture |
| M84.521D | Pathological fracture in neoplastic disease, right humerus, subsequent encounter for fracture with routine healing |
| M84.521G | Pathological fracture in neoplastic disease, right humerus, subsequent encounter for fracture with delayed healing |
| M84.521K | Pathological fracture in neoplastic disease, right humerus, subsequent encounter for fracture with nonunion |
| M84.521P | Pathological fracture in neoplastic disease, right humerus, subsequent encounter for fracture with malunion |
| M84.522A | Pathological fracture in neoplastic disease, left humerus, initial encounter for fracture |
| M84.522D | Pathological fracture in neoplastic disease, left humerus, subsequent encounter for fracture with routine healing |
| M84.522G | Pathological fracture in neoplastic disease, left humerus, subsequent encounter for fracture with delayed healing |
| M84.522K | Pathological fracture in neoplastic disease, left humerus, subsequent encounter for fracture with nonunion |
| M84.522P | Pathological fracture in neoplastic disease, left humerus, subsequent encounter for fracture with malunion |
| M84.529A | Pathological fracture in neoplastic disease, unspecified humerus, initial encounter for fracture |
| M84.529D | Pathological fracture in neoplastic disease, unspecified humerus, subsequent encounter for fracture with routine healing |
| M84.529G | Pathological fracture in neoplastic disease, unspecified humerus, subsequent encounter for fracture with delayed healing |
| M84.529K | Pathological fracture in neoplastic disease, unspecified humerus, subsequent encounter for fracture with nonunion |
| M84.529P | Pathological fracture in neoplastic disease, unspecified humerus, subsequent encounter for fracture with malunion |

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| M84.531A | Pathological fracture in neoplastic disease, right ulna, initial encounter for fracture |
| M84.531D | Pathological fracture in neoplastic disease, right ulna, subsequent encounter for fracture with routine healing |
| M84.531G | Pathological fracture in neoplastic disease, right ulna, subsequent encounter for fracture with delayed healing |
| M84.531K | Pathological fracture in neoplastic disease, right ulna, subsequent encounter for fracture with nonunion |
| M84.531P | Pathological fracture in neoplastic disease, right ulna, subsequent encounter for fracture with malunion |
| M84.532A | Pathological fracture in neoplastic disease, left ulna, initial encounter for fracture |
| M84.532D | Pathological fracture in neoplastic disease, left ulna, subsequent encounter for fracture with routine healing |
| M84.532G | Pathological fracture in neoplastic disease, left ulna, subsequent encounter for fracture with delayed healing |
| M84.532K | Pathological fracture in neoplastic disease, left ulna, subsequent encounter for fracture with nonunion |
| M84.532P | Pathological fracture in neoplastic disease, left ulna, subsequent encounter for fracture with malunion |
| M84.533A | Pathological fracture in neoplastic disease, right radius, initial encounter for fracture |
| M84.533D | Pathological fracture in neoplastic disease, right radius, subsequent encounter for fracture with routine healing |
| M84.533G | Pathological fracture in neoplastic disease, right radius, subsequent encounter for fracture with delayed healing |
| M84.533K | Pathological fracture in neoplastic disease, right radius, subsequent encounter for fracture with nonunion |
| M84.533P | Pathological fracture in neoplastic disease, right radius, subsequent encounter for fracture with malunion |
| M84.534A | Pathological fracture in neoplastic disease, left radius, initial encounter for fracture |
| M84.534D | Pathological fracture in neoplastic disease, left radius, subsequent encounter for fracture with routine healing |
| M84.534G | Pathological fracture in neoplastic disease, left radius, subsequent encounter for fracture with delayed healing |
| M84.534K | Pathological fracture in neoplastic disease, left radius, subsequent encounter for fracture with nonunion |
| M84.534P | Pathological fracture in neoplastic disease, left radius, subsequent encounter for fracture with malunion |
| M84.539A | Pathological fracture in neoplastic disease, unspecified ulna and radius, initial encounter for fracture |
| M84.539D | Pathological fracture in neoplastic disease, unspecified ulna and radius, subsequent encounter for fracture with routine healing |
| M84.539G | Pathological fracture in neoplastic disease, unspecified ulna and radius, subsequent encounter for fracture with delayed healing |
| M84.539K | Pathological fracture in neoplastic disease, unspecified ulna and radius, subsequent encounter for fracture with nonunion |
| M84.539P | Pathological fracture in neoplastic disease, unspecified ulna and radius, subsequent encounter for fracture with malunion |
| M84.541A | Pathological fracture in neoplastic disease, right hand, initial encounter for fracture |
| M84.541D | Pathological fracture in neoplastic disease, right hand, subsequent encounter for fracture with routine healing |
| M84.541G | Pathological fracture in neoplastic disease, right hand, subsequent encounter for fracture with delayed healing |
| M84.541K | Pathological fracture in neoplastic disease, right hand, subsequent encounter for fracture with nonunion |
| M84.541P | Pathological fracture in neoplastic disease, right hand, subsequent encounter for fracture with malunion |
| M84.542A | Pathological fracture in neoplastic disease, left hand, initial encounter for fracture |
| M84.542D | Pathological fracture in neoplastic disease, left hand, subsequent encounter for fracture with routine healing |
| M84.542G | Pathological fracture in neoplastic disease, left hand, subsequent encounter for fracture with delayed healing |
| M84.542K | Pathological fracture in neoplastic disease, left hand, subsequent encounter for fracture with nonunion |
| M84.542P | Pathological fracture in neoplastic disease, left hand, subsequent encounter for fracture with malunion |
| M84.549A | Pathological fracture in neoplastic disease, unspecified hand, initial encounter for fracture |
| M84.549D | Pathological fracture in neoplastic disease, unspecified hand, subsequent encounter for fracture with routine healing |
| M84.549G | Pathological fracture in neoplastic disease, unspecified hand, subsequent encounter for fracture with delayed healing |
| M84.549K | Pathological fracture in neoplastic disease, unspecified hand, subsequent encounter for fracture with nonunion |
| M84.549P | Pathological fracture in neoplastic disease, unspecified hand, subsequent encounter for fracture with malunion |
| M84.550A | Pathological fracture in neoplastic disease, pelvis, initial encounter for fracture |

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| M84.550D | Pathological fracture in neoplastic disease, pelvis, subsequent encounter for fracture with routine healing |
| M84.550G | Pathological fracture in neoplastic disease, pelvis, subsequent encounter for fracture with delayed healing |
| M84.550K | Pathological fracture in neoplastic disease, pelvis, subsequent encounter for fracture with nonunion |
| M84.550P | Pathological fracture in neoplastic disease, pelvis, subsequent encounter for fracture with malunion |
| M84.551A | Pathological fracture in neoplastic disease, right femur, initial encounter for fracture |
| M84.551D | Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with routine healing |
| M84.551G | Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with delayed healing |
| M84.551K | Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with nonunion |
| M84.551P | Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with malunion |
| M84.552A | Pathological fracture in neoplastic disease, left femur, initial encounter for fracture |
| M84.552D | Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with routine healing |
| M84.552G | Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with delayed healing |
| M84.552K | Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with nonunion |
| M84.552P | Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with malunion |
| M84.553A | Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture |
| M84.553D | Pathological fracture in neoplastic disease, unspecified femur, subsequent encounter for fracture with routine healing |
| M84.553G | Pathological fracture in neoplastic disease, unspecified femur, subsequent encounter for fracture with nonunion |
| M84.553K | Pathological fracture in neoplastic disease, unspecified femur, subsequent encounter for fracture with nonunion |
| M84.553P | Pathological fracture in neoplastic disease, unspecified femur, subsequent encounter for fracture with malunion |
| M84.559A | Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture |
| M84.559D | Pathological fracture in neoplastic disease, hip, unspecified, subsequent encounter for fracture with routine healing |
| M84.559G | Pathological fracture in neoplastic disease, hip, unspecified, subsequent encounter for fracture with delayed healing |
| M84.559K | Pathological fracture in neoplastic disease, hip, unspecified, subsequent encounter for fracture with nonunion |
| M84.559P | Pathological fracture in neoplastic disease, hip, unspecified, subsequent encounter for fracture with malunion |
| M84.561A | Pathological fracture in neoplastic disease, right tibia, initial encounter for fracture |
| M84.561D | Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with routine healing |
| M84.561G | Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with delayed healing |
| M84.561K | Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with nonunion |
| M84.561P | Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with malunion |
| M84.562A | Pathological fracture in neoplastic disease, left tibia, initial encounter for fracture |
| M84.562D | Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with routine healing |
| M84.562G | Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with delayed healing |
| M84.562K | Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with nonunion |
| M84.562P | Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with malunion |
| M84.563A | Pathological fracture in neoplastic disease, right fibula, initial encounter for fracture |
| M84.563D | Pathological fracture in neoplastic disease, right fibula, subsequent encounter for fracture with routine healing |
| M84.563G | Pathological fracture in neoplastic disease, right fibula, subsequent encounter for fracture with delayed healing |
| M84.563K | Pathological fracture in neoplastic disease, right fibula, subsequent encounter for fracture with nonunion |
| M84.563P | Pathological fracture in neoplastic disease, right fibula, subsequent encounter for fracture with malunion |
| M84.564A | Pathological fracture in neoplastic disease, left fibula, initial encounter for fracture |
| M84.564D | Pathological fracture in neoplastic disease, left fibula, subsequent encounter for fracture with routine healing |
| M84.564G | Pathological fracture in neoplastic disease, left fibula, subsequent encounter for fracture with delayed healing |

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| M84.564K | Pathological fracture in neoplastic disease, left fibula, subsequent encounter for fracture with nonunion |
| M84.564P | Pathological fracture in neoplastic disease, left fibula, subsequent encounter for fracture with malunion |
| M84.569A | Pathological fracture in neoplastic disease, unspecified tibia and fibula, initial encounter for fracture |
| M84.569D | Pathological fracture in neoplastic disease, unspecified tibia and fibula, subsequent encounter for fracture with routine healing |
| M84.569G | Pathological fracture in neoplastic disease, unspecified tibia and fibula, subsequent encounter for fracture with delayed healing |
| M84.569K | Pathological fracture in neoplastic disease, unspecified tibia and fibula, subsequent encounter for fracture with nonunion |
| M84.569P | Pathological fracture in neoplastic disease, unspecified tibia and fibula, subsequent encounter for fracture with malunion |
| M84.571A | Pathological fracture in neoplastic disease, right ankle, initial encounter for fracture |
| M84.571D | Pathological fracture in neoplastic disease, right ankle, subsequent encounter for fracture with routine healing |
| M84.571G | Pathological fracture in neoplastic disease, right ankle, subsequent encounter for fracture with delayed healing |
| M84.571K | Pathological fracture in neoplastic disease, right ankle, subsequent encounter for fracture with nonunion |
| M84.571P | Pathological fracture in neoplastic disease, right ankle, subsequent encounter for fracture with malunion |
| M84.572A | Pathological fracture in neoplastic disease, left ankle, initial encounter for fracture |
| M84.572D | Pathological fracture in neoplastic disease, left ankle, subsequent encounter for fracture with routine healing |
| M84.572G | Pathological fracture in neoplastic disease, left ankle, subsequent encounter for fracture with delayed healing |
| M84.572K | Pathological fracture in neoplastic disease, left ankle, subsequent encounter for fracture with nonunion |
| M84.572P | Pathological fracture in neoplastic disease, left ankle, subsequent encounter for fracture with malunion |
| M84.573A | Pathological fracture in neoplastic disease, unspecified ankle, initial encounter for fracture |
| M84.573D | Pathological fracture in neoplastic disease, unspecified ankle, subsequent encounter for fracture with routine healing |
| M84.573G | Pathological fracture in neoplastic disease, unspecified ankle, subsequent encounter for fracture with delayed healing |
| M84.573K | Pathological fracture in neoplastic disease, unspecified ankle, subsequent encounter for fracture with nonunion |
| M84.573P | Pathological fracture in neoplastic disease, unspecified ankle, subsequent encounter for fracture with malunion |
| M84.574A | Pathological fracture in neoplastic disease, right foot, initial encounter for fracture |
| M84.574D | Pathological fracture in neoplastic disease, right foot, subsequent encounter for fracture with routine healing |
| M84.574G | Pathological fracture in neoplastic disease, right foot, subsequent encounter for fracture with delayed healing |
| M84.574K | Pathological fracture in neoplastic disease, right foot, subsequent encounter for fracture with nonunion |
| M84.574P | Pathological fracture in neoplastic disease, right foot, subsequent encounter for fracture with malunion |
| M84.575A | Pathological fracture in neoplastic disease, left foot, initial encounter for fracture |
| M84.575D | Pathological fracture in neoplastic disease, left foot, subsequent encounter for fracture with routine healing |
| M84.575G | Pathological fracture in neoplastic disease, left foot, subsequent encounter for fracture with delayed healing |
| M84.575K | Pathological fracture in neoplastic disease, left foot, subsequent encounter for fracture with nonunion |
| M84.575P | Pathological fracture in neoplastic disease, left foot, subsequent encounter for fracture with malunion |
| M84.576A | Pathological fracture in neoplastic disease, unspecified foot, initial encounter for fracture |
| M84.576D | Pathological fracture in neoplastic disease, unspecified foot, subsequent encounter for fracture with routine healing |
| M84.576G | Pathological fracture in neoplastic disease, unspecified foot, subsequent encounter for fracture with delayed healing |
| M84.576K | Pathological fracture in neoplastic disease, unspecified foot, subsequent encounter for fracture with nonunion |
| M84.576P | Pathological fracture in neoplastic disease, unspecified foot, subsequent encounter for fracture with malunion |
| M84.58xA | Pathological fracture in neoplastic disease, other specified site, initial encounter for fracture |
| M84.58xD | Pathological fracture in neoplastic disease, other specified site, subsequent encounter for fracture with routine healing |
| M84.58xG | Pathological fracture in neoplastic disease, other specified site, subsequent encounter for fracture with delayed healing |
| M84.58xK | Pathological fracture in neoplastic disease, other specified site, subsequent encounter for fracture with nonunion |

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| M84.58xP | Pathological fracture in neoplastic disease, other specified site, subsequent encounter for fracture with malunion |
| M84.60xA | Pathological fracture in other disease, unspecified site, initial encounter for fracture |
| M84.60xD | Pathological fracture in other disease, unspecified site, subsequent encounter for fracture with routine healing |
| M84.60xG | Pathological fracture in other disease, unspecified site, subsequent encounter for fracture with delayed healing |
| M84.60xK | Pathological fracture in other disease, unspecified site, subsequent encounter for fracture with nonunion |
| M84.60xP | Pathological fracture in other disease, unspecified site, subsequent encounter for fracture with malunion |
| M84.611A | Pathological fracture in other disease, right shoulder, initial encounter for fracture |
| M84.611D | Pathological fracture in other disease, right shoulder, subsequent encounter for fracture with routine healing |
| M84.611G | Pathological fracture in other disease, right shoulder, subsequent encounter for fracture with delayed healing |
| M84.611K | Pathological fracture in other disease, right shoulder, subsequent encounter for fracture with nonunion |
| M84.611P | Pathological fracture in other disease, right shoulder, subsequent encounter for fracture with malunion |
| M84.612A | Pathological fracture in other disease, left shoulder, initial encounter for fracture |
| M84.612D | Pathological fracture in other disease, left shoulder, subsequent encounter for fracture with routine healing |
| M84.612G | Pathological fracture in other disease, left shoulder, subsequent encounter for fracture with delayed healing |
| M84.612K | Pathological fracture in other disease, left shoulder, subsequent encounter for fracture with nonunion |
| M84.612P | Pathological fracture in other disease, left shoulder, subsequent encounter for fracture with malunion |
| M84.619A | Pathological fracture in other disease, unspecified shoulder, initial encounter for fracture |
| M84.619D | Pathological fracture in other disease, unspecified shoulder, subsequent encounter for fracture with routine healing |
| M84.619G | Pathological fracture in other disease, unspecified shoulder, subsequent encounter for fracture with delayed healing |
| M84.619K | Pathological fracture in other disease, unspecified shoulder, subsequent encounter for fracture with nonunion |
| M84.619P | Pathological fracture in other disease, unspecified shoulder, subsequent encounter for fracture with malunion |
| M84.621A | Pathological fracture in other disease, right humerus, initial encounter for fracture |
| M84.621D | Pathological fracture in other disease, right humerus, subsequent encounter for fracture with routine healing |
| M84.621G | Pathological fracture in other disease, right humerus, subsequent encounter for fracture with delayed healing |
| M84.621K | Pathological fracture in other disease, right humerus, subsequent encounter for fracture with nonunion |
| M84.621P | Pathological fracture in other disease, right humerus, subsequent encounter for fracture with malunion |
| M84.622A | Pathological fracture in other disease, left humerus, initial encounter for fracture |
| M84.622D | Pathological fracture in other disease, left humerus, subsequent encounter for fracture with routine healing |
| M84.622G | Pathological fracture in other disease, left humerus, subsequent encounter for fracture with delayed healing |
| M84.622K | Pathological fracture in other disease, left humerus, subsequent encounter for fracture with nonunion |
| M84.622P | Pathological fracture in other disease, left humerus, subsequent encounter for fracture with malunion |
| M84.629A | Pathological fracture in other disease, unspecified humerus, initial encounter for fracture |
| M84.629D | Pathological fracture in other disease, unspecified humerus, subsequent encounter for fracture with routine healing |
| M84.629G | Pathological fracture in other disease, unspecified humerus, subsequent encounter for fracture with delayed healing |
| M84.629K | Pathological fracture in other disease, unspecified humerus, subsequent encounter for fracture with nonunion |
| M84.629P | Pathological fracture in other disease, unspecified humerus, subsequent encounter for fracture with malunion |
| M84.631A | Pathological fracture in other disease, right ulna, initial encounter for fracture |
| M84.631D | Pathological fracture in other disease, right ulna, subsequent encounter for fracture with routine healing |
| M84.631G | Pathological fracture in other disease, right ulna, subsequent encounter for fracture with delayed healing |
| M84.631K | Pathological fracture in other disease, right ulna, subsequent encounter for fracture with nonunion |
| M84.631P | Pathological fracture in other disease, right ulna, subsequent encounter for fracture with malunion |
| M84.632A | Pathological fracture in other disease, left ulna, initial encounter for fracture |

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| M84.632D | Pathological fracture in other disease, left ulna, subsequent encounter for fracture with routine healing |
| M84.632G | Pathological fracture in other disease, left ulna, subsequent encounter for fracture with delayed healing |
| M84.632K | Pathological fracture in other disease, left ulna, subsequent encounter for fracture with nonunion |
| M84.632P | Pathological fracture in other disease, left ulna, subsequent encounter for fracture with malunion |
| M84.633A | Pathological fracture in other disease, right radius, initial encounter for fracture |
| M84.633D | Pathological fracture in other disease, right radius, subsequent encounter for fracture with routine healing |
| M84.633G | Pathological fracture in other disease, right radius, subsequent encounter for fracture with delayed healing |
| M84.633K | Pathological fracture in other disease, right radius, subsequent encounter for fracture with nonunion |
| M84.633P | Pathological fracture in other disease, right radius, subsequent encounter for fracture with malunion |
| M84.634A | Pathological fracture in other disease, left radius, initial encounter for fracture |
| M84.634D | Pathological fracture in other disease, left radius, subsequent encounter for fracture with routine healing |
| M84.634G | Pathological fracture in other disease, left radius, subsequent encounter for fracture with delayed healing |
| M84.634K | Pathological fracture in other disease, left radius, subsequent encounter for fracture with nonunion |
| M84.634P | Pathological fracture in other disease, left radius, subsequent encounter for fracture with malunion |
| M84.639A | Pathological fracture in other disease, unspecified ulna and radius, initial encounter for fracture |
| M84.639D | Pathological fracture in other disease, unspecified ulna and radius, subsequent encounter for fracture with routine healing |
| M84.639G | Pathological fracture in other disease, unspecified ulna and radius, subsequent encounter for fracture with delayed healing |
| M84.639K | Pathological fracture in other disease, unspecified ulna and radius, subsequent encounter for fracture with nonunion |
| M84.639P | Pathological fracture in other disease, unspecified ulna and radius, subsequent encounter for fracture with malunion |
| M84.641A | Pathological fracture in other disease, right hand, initial encounter for fracture |
| M84.641D | Pathological fracture in other disease, right hand, subsequent encounter for fracture with routine healing |
| M84.641G | Pathological fracture in other disease, right hand, subsequent encounter for fracture with delayed healing |
| M84.641K | Pathological fracture in other disease, right hand, subsequent encounter for fracture with nonunion |
| M84.641P | Pathological fracture in other disease, right hand, subsequent encounter for fracture with malunion |
| M84.642A | Pathological fracture in other disease, left hand, initial encounter for fracture |
| M84.642D | Pathological fracture in other disease, left hand, subsequent encounter for fracture with routine healing |
| M84.642G | Pathological fracture in other disease, left hand, subsequent encounter for fracture with delayed healing |
| M84.642K | Pathological fracture in other disease, left hand, subsequent encounter for fracture with nonunion |
| M84.642P | Pathological fracture in other disease, left hand, subsequent encounter for fracture with malunion |
| M84.649A | Pathological fracture in other disease, unspecified hand, initial encounter for fracture |
| M84.649D | Pathological fracture in other disease, unspecified hand, subsequent encounter for fracture with routine healing |
| M84.649G | Pathological fracture in other disease, unspecified hand, subsequent encounter for fracture with delayed healing |
| M84.649K | Pathological fracture in other disease, unspecified hand, subsequent encounter for fracture with nonunion |
| M84.649P | Pathological fracture in other disease, unspecified hand, subsequent encounter for fracture with malunion |
| M84.650A | Pathological fracture in other disease, pelvis, initial encounter for fracture |
| M84.650D | Pathological fracture in other disease, pelvis, subsequent encounter for fracture with routine healing |
| M84.650G | Pathological fracture in other disease, pelvis, subsequent encounter for fracture with delayed healing |
| M84.650K | Pathological fracture in other disease, pelvis, subsequent encounter for fracture with nonunion |
| M84.650P | Pathological fracture in other disease, pelvis, subsequent encounter for fracture with malunion |
| M84.651A | Pathological fracture in other disease, right femur, initial encounter for fracture |
| M84.651D | Pathological fracture in other disease, right femur, subsequent encounter for fracture with routine healing |

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| M84.651G | Pathological fracture in other disease, right femur, subsequent encounter for fracture with delayed healing |
| M84.651K | Pathological fracture in other disease, right femur, subsequent encounter for fracture with nonunion |
| M84.651P | Pathological fracture in other disease, right femur, subsequent encounter for fracture with malunion |
| M84.652A | Pathological fracture in other disease, left femur, initial encounter for fracture |
| M84.652D | Pathological fracture in other disease, left femur, subsequent encounter for fracture with routine healing |
| M84.652G | Pathological fracture in other disease, left femur, subsequent encounter for fracture with delayed healing |
| M84.652K | Pathological fracture in other disease, left femur, subsequent encounter for fracture with nonunion |
| M84.652P | Pathological fracture in other disease, left femur, subsequent encounter for fracture with malunion |
| M84.653A | Pathological fracture in other disease, unspecified femur, initial encounter for fracture |
| M84.653D | Pathological fracture in other disease, unspecified femur, subsequent encounter for fracture with routine healing |
| M84.653G | Pathological fracture in other disease, unspecified femur, subsequent encounter for fracture with delayed healing |
| M84.653K | Pathological fracture in other disease, unspecified femur, subsequent encounter for fracture with nonunion |
| M84.653P | Pathological fracture in other disease, unspecified femur, subsequent encounter for fracture with malunion |
| M84.659A | Pathological fracture in other disease, hip, unspecified, initial encounter for fracture |
| M84.659D | Pathological fracture in other disease, hip, unspecified, subsequent encounter for fracture with routine healing |
| M84.659G | Pathological fracture in other disease, hip, unspecified, subsequent encounter for fracture with delayed healing |
| M84.659K | Pathological fracture in other disease, hip, unspecified, subsequent encounter for fracture with nonunion |
| M84.659P | Pathological fracture in other disease, hip, unspecified, subsequent encounter for fracture with malunion |
| M84.661A | Pathological fracture in other disease, right tibia, initial encounter for fracture |
| M84.661D | Pathological fracture in other disease, right tibia, subsequent encounter for fracture with routine healing |
| M84.661G | Pathological fracture in other disease, right tibia, subsequent encounter for fracture with delayed healing |
| M84.661K | Pathological fracture in other disease, right tibia, subsequent encounter for fracture with nonunion |
| M84.661P | Pathological fracture in other disease, right tibia, subsequent encounter for fracture with malunion |
| M84.662A | Pathological fracture in other disease, left tibia, initial encounter for fracture |
| M84.662D | Pathological fracture in other disease, left tibia, subsequent encounter for fracture with routine healing |
| M84.662G | Pathological fracture in other disease, left tibia, subsequent encounter for fracture with delayed healing |
| M84.662K | Pathological fracture in other disease, left tibia, subsequent encounter for fracture with nonunion |
| M84.662P | Pathological fracture in other disease, left tibia, subsequent encounter for fracture with malunion |
| M84.663A | Pathological fracture in other disease, right fibula, initial encounter for fracture |
| M84.663D | Pathological fracture in other disease, right fibula, subsequent encounter for fracture with routine healing |
| M84.663G | Pathological fracture in other disease, right fibula, subsequent encounter for fracture with delayed healing |
| M84.663K | Pathological fracture in other disease, right fibula, subsequent encounter for fracture with nonunion |
| M84.663P | Pathological fracture in other disease, right fibula, subsequent encounter for fracture with malunion |
| M84.664A | Pathological fracture in other disease, left fibula, initial encounter for fracture |
| M84.664D | Pathological fracture in other disease, left fibula, subsequent encounter for fracture with routine healing |
| M84.664G | Pathological fracture in other disease, left fibula, subsequent encounter for fracture with delayed healing |
| M84.664K | Pathological fracture in other disease, left fibula, subsequent encounter for fracture with nonunion |
| M84.664P | Pathological fracture in other disease, left fibula, subsequent encounter for fracture with malunion |
| M84.669A | Pathological fracture in other disease, unspecified tibia and fibula, initial encounter for fracture |
| M84.669D | Pathological fracture in other disease, unspecified tibia and fibula, subsequent encounter for fracture with routine healing |
| M84.669G | Pathological fracture in other disease, unspecified tibia and fibula, subsequent encounter for fracture with delayed healing |

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| M84.669K | Pathological fracture in other disease, unspecified tibia and fibula, subsequent encounter for fracture with nonunion |
| M84.669P | Pathological fracture in other disease, unspecified tibia and fibula, subsequent encounter for fracture with malunion |
| M84.671A | Pathological fracture in other disease, right ankle, initial encounter for fracture |
| M84.671D | Pathological fracture in other disease, right ankle, subsequent encounter for fracture with routine healing |
| M84.671G | Pathological fracture in other disease, right ankle, subsequent encounter for fracture with delayed healing |
| M84.671K | Pathological fracture in other disease, right ankle, subsequent encounter for fracture with nonunion |
| M84.671P | Pathological fracture in other disease, right ankle, subsequent encounter for fracture with malunion |
| M84.672A | Pathological fracture in other disease, left ankle, initial encounter for fracture |
| M84.672D | Pathological fracture in other disease, left ankle, subsequent encounter for fracture with routine healing |
| M84.672G | Pathological fracture in other disease, left ankle, subsequent encounter for fracture with delayed healing |
| M84.672K | Pathological fracture in other disease, left ankle, subsequent encounter for fracture with nonunion |
| M84.672P | Pathological fracture in other disease, left ankle, subsequent encounter for fracture with malunion |
| M84.673A | Pathological fracture in other disease, unspecified ankle, initial encounter for fracture |
| M84.673D | Pathological fracture in other disease, unspecified ankle, subsequent encounter for fracture with routine healing |
| M84.673G | Pathological fracture in other disease, unspecified ankle, subsequent encounter for fracture with delayed healing |
| M84.673K | Pathological fracture in other disease, unspecified ankle, subsequent encounter for fracture with nonunion |
| M84.673P | Pathological fracture in other disease, unspecified ankle, subsequent encounter for fracture with malunion |
| M84.674A | Pathological fracture in other disease, right foot, initial encounter for fracture |
| M84.674D | Pathological fracture in other disease, right foot, subsequent encounter for fracture with routine healing |
| M84.674G | Pathological fracture in other disease, right foot, subsequent encounter for fracture with delayed healing |
| M84.674K | Pathological fracture in other disease, right foot, subsequent encounter for fracture with nonunion |
| M84.674P | Pathological fracture in other disease, right foot, subsequent encounter for fracture with malunion |
| M84.675A | Pathological fracture in other disease, left foot, initial encounter for fracture |
| M84.675D | Pathological fracture in other disease, left foot, subsequent encounter for fracture with routine healing |
| M84.675G | Pathological fracture in other disease, left foot, subsequent encounter for fracture with delayed healing |
| M84.675K | Pathological fracture in other disease, left foot, subsequent encounter for fracture with nonunion |
| M84.675P | Pathological fracture in other disease, left foot, subsequent encounter for fracture with malunion |
| M84.676A | Pathological fracture in other disease, unspecified foot, initial encounter for fracture |
| M84.676D | Pathological fracture in other disease, unspecified foot, subsequent encounter for fracture with routine healing |
| M84.676G | Pathological fracture in other disease, unspecified foot, subsequent encounter for fracture with delayed healing |
| M84.676K | Pathological fracture in other disease, unspecified foot, subsequent encounter for fracture with nonunion |
| M84.676P | Pathological fracture in other disease, unspecified foot, subsequent encounter for fracture with malunion |
| M84.68xA | Pathological fracture in other disease, other site, initial encounter for fracture |
| M84.68xD | Pathological fracture in other disease, other site, subsequent encounter for fracture with routine healing |
| M84.68xG | Pathological fracture in other disease, other site, subsequent encounter for fracture with delayed healing |
| M84.68xK | Pathological fracture in other disease, other site, subsequent encounter for fracture with nonunion |
| M84.68xP | Pathological fracture in other disease, other site, subsequent encounter for fracture with malunion |
| M84.750A | Atypical femoral fracture, unspecified, initial encounter for fracture |
| M84.750D | Atypical femoral fracture, unspecified, subsequent encounter for fracture with routine healing |
| M84.750G | Atypical femoral fracture, unspecified, subsequent encounter for fracture with delayed healing |
| M84.750K | Atypical femoral fracture, unspecified, subsequent encounter for fracture with nonunion |
| M84.750P | Atypical femoral fracture, unspecified, subsequent encounter for fracture with malunion |

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| M84.751A | Incomplete atypical femoral fracture, right leg, initial encounter for fracture |
| M84.751D | Incomplete atypical femoral fracture, right leg, subsequent encounter for fracture with routine healing |
| M84.751G | Incomplete atypical femoral fracture, right leg, subsequent encounter for fracture with delayed healing |
| M84.751K | Incomplete atypical femoral fracture, right leg, subsequent encounter for fracture with nonunion |
| M84.751P | Incomplete atypical femoral fracture, right leg, subsequent encounter for fracture with malunion |
| M84.752A | Incomplete atypical femoral fracture, left leg, initial encounter for fracture |
| M84.752D | Incomplete atypical femoral fracture, left leg, subsequent encounter for fracture with routine healing |
| M84.752G | Incomplete atypical femoral fracture, left leg, subsequent encounter for fracture with delayed healing |
| M84.752K | Incomplete atypical femoral fracture, left leg, subsequent encounter for fracture with nonunion |
| M84.752P | Incomplete atypical femoral fracture, left leg, subsequent encounter for fracture with malunion |
| M84.753A | Incomplete atypical femoral fracture, unspecified leg, initial encounter for fracture |
| M84.753D | Incomplete atypical femoral fracture, unspecified leg, subsequent encounter for fracture with routine healing |
| M84.753G | Incomplete atypical femoral fracture, unspecified leg, subsequent encounter for fracture with delayed healing |
| M84.753K | Incomplete atypical femoral fracture, unspecified leg, subsequent encounter for fracture with nonunion |
| M84.753P | Incomplete atypical femoral fracture, unspecified leg, subsequent encounter for fracture with malunion |
| M84.754A | Complete transverse atypical femoral fracture, right leg, initial encounter for fracture |
| M84.754D | Complete transverse atypical femoral fracture, right leg, subsequent encounter for fracture with routine healing |
| M84.754G | Complete transverse atypical femoral fracture, right leg, subsequent encounter for fracture with delayed healing |
| M84.754K | Complete transverse atypical femoral fracture, right leg, subsequent encounter for fracture with nonunion |
| M84.754P | Complete transverse atypical femoral fracture, right leg, subsequent encounter for fracture with malunion |
| M84.755A | Complete transverse atypical femoral fracture, left leg, initial encounter for fracture |
| M84.755D | Complete transverse atypical femoral fracture, left leg, subsequent encounter for fracture with routine healing |
| M84.755G | Complete transverse atypical femoral fracture, left leg, subsequent encounter for fracture with delayed healing |
| M84.755K | Complete transverse atypical femoral fracture, left leg, subsequent encounter for fracture with nonunion |
| M84.755P | Complete transverse atypical femoral fracture, left leg, subsequent encounter for fracture with malunion |
| M84.756A | Complete transverse atypical femoral fracture, unspecified leg, initial encounter for fracture |
| M84.756D | Complete transverse atypical femoral fracture, unspecified leg, subsequent encounter for fracture with routine healing |
| M84.756G | Complete transverse atypical femoral fracture, unspecified leg, subsequent encounter for fracture with delayed healing |
| M84.756K | Complete transverse atypical femoral fracture, unspecified leg, subsequent encounter for fracture with nonunion |
| M84.756P | Complete transverse atypical femoral fracture, unspecified leg, subsequent encounter for fracture with malunion |
| M84.757A | Complete oblique atypical femoral fracture, right leg, initial encounter for fracture |
| M84.757D | Complete oblique atypical femoral fracture, right leg, subsequent encounter for fracture with routine healing |
| M84.757G | Complete oblique atypical femoral fracture, right leg, subsequent encounter for fracture with delayed healing |
| M84.757K | Complete oblique atypical femoral fracture, right leg, subsequent encounter for fracture with nonunion |
| M84.757P | Complete oblique atypical femoral fracture, right leg, subsequent encounter for fracture with malunion |
| M84.758A | Complete oblique atypical femoral fracture, left leg, initial encounter for fracture |
| M84.758D | Complete oblique atypical femoral fracture, left leg, subsequent encounter for fracture with routine healing |
| M84.758G | Complete oblique atypical femoral fracture, left leg, subsequent encounter for fracture with delayed healing |
| M84.758K | Complete oblique atypical femoral fracture, left leg, subsequent encounter for fracture with nonunion |
| M84.758P | Complete oblique atypical femoral fracture, left leg, subsequent encounter for fracture with malunion |
| M84.759A | Complete oblique atypical femoral fracture, unspecified leg, initial encounter for fracture |
| M84.759D | Complete oblique atypical femoral fracture, unspecified leg, subsequent encounter for fracture with routine healing |

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| M84.759G | Complete oblique atypical femoral fracture, unspecified leg, subsequent encounter for fracture with delayed healing |
| M84.759K | Complete oblique atypical femoral fracture, unspecified leg, subsequent encounter for fracture with nonunion |
| M84.759P | Complete oblique atypical femoral fracture, unspecified leg, subsequent encounter for fracture with malunion |
| M85.80 | Other specified disorders of bone density and structure, unspecified site |
| M85.811 | Other specified disorders of bone density and structure, right shoulder |
| M85.812 | Other specified disorders of bone density and structure, left shoulder |
| M85.821 | Other specified disorders of bone density and structure, right upper arm |
| M85.822 | Other specified disorders of bone density and structure, left upper arm |
| M85.831 | Other specified disorders of bone density and structure, right forearm |
| M85.832 | Other specified disorders of bone density and structure, left forearm |
| M85.841 | Other specified disorders of bone density and structure, right hand |
| M85.842 | Other specified disorders of bone density and structure, left hand |
| M85.851 | Other specified disorders of bone density and structure, right thigh |
| M85.852 | Other specified disorders of bone density and structure, left thigh |
| M85.861 | Other specified disorders of bone density and structure, right lower leg |
| M85.862 | Other specified disorders of bone density and structure, left lower leg |
| M85.871 | Other specified disorders of bone density and structure, right ankle and foot |
| M85.872 | Other specified disorders of bone density and structure, left ankle and foot |
| M85.88 | Other specified disorders of bone density and structure, other site |
| M85.89 | Other specified disorders of bone density and structure, multiple sites |
| M85.9 | Disorder of bone density and structure, unspecified |
| M89.9 | Disorder of bone, unspecified |
| M94.9 | Disorder of cartilage, unspecified |
| N91.0 | Primary amenorrhea |
| N91.1 | Secondary amenorrhea |
| N91.2 | Amenorrhea, unspecified |
| N92.4 | Excessive bleeding in the premenopausal period |
| N95.0 | Postmenopausal bleeding |
| N95.1 | Menopausal and female climacteric states |
| N95.2 | Postmenopausal atrophic vaginitis |
| N95.8 | Other specified menopausal and perimenopausal disorders |
| N95.9 | Unspecified menopausal and perimenopausal disorder |
| Q55.4 | Other congenital malformations of vas deferens, epididymis, seminal vesicles and prostate |
| Q78.0 | Osteogenesis imperfecta |
| Q96.0 | Karyotype 45, X |
| Q96.1 | Karyotype 46, X iso (Xq) |
| Q96.2 | Karyotype 46, X with abnormal sex chromosome, except iso (Xq) |
| Q96.3 | Mosaicism, 45, X/46, XX or XY |
| Q96.4 | Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome |
| Q96.8 | Other variants of Turner's syndrome |
| Q96.9 | Turner's syndrome, unspecified |
| R29.890 | Loss of height |

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| R93.6 | Abnormal findings on diagnostic imaging of limbs |
| R93.7 | Abnormal findings on diagnostic imaging of other parts of musculoskeletal system |
| S12.000A | Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.000B | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture |
| S12.000D | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.000G | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.000K | Unspecified displaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.001A | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.001B | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture |
| S12.001D | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.001G | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.001K | Unspecified nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.01xA | Stable burst fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.01xB | Stable burst fracture of first cervical vertebra, initial encounter for open fracture |
| S12.01xD | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.01xG | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.01xK | Stable burst fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.02xA | Unstable burst fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.02xB | Unstable burst fracture of first cervical vertebra, initial encounter for open fracture |
| S12.02xD | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.02xG | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.02xK | Unstable burst fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.030A | Displaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.030B | Displaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture |
| S12.030D | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.030G | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.030K | Displaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.031A | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.031B | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture |
| S12.031D | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.031G | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.031K | Nondisplaced posterior arch fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.040A | Displaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.040B | Displaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture |
| S12.040D | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.040G | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.040K | Displaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.041A | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.041B | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture |
| S12.041D | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.041G | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.041K | Nondisplaced lateral mass fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |

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| S12.090A | Other displaced fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.090B | Other displaced fracture of first cervical vertebra, initial encounter for open fracture |
| S12.090D | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.090G | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.090K | Other displaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.091A | Other nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture |
| S12.091B | Other nondisplaced fracture of first cervical vertebra, initial encounter for open fracture |
| S12.091D | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.091G | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.091K | Other nondisplaced fracture of first cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.100A | Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture |
| S12.100B | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture |
| S12.100D | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.100G | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.100K | Unspecified displaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.101A | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture |
| S12.101B | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture |
| S12.101D | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.101G | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.101K | Unspecified nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.110A | Anterior displaced Type II dens fracture, initial encounter for closed fracture |
| S12.110B | Anterior displaced Type II dens fracture, initial encounter for open fracture |
| S12.110D | Anterior displaced Type II dens fracture, subsequent encounter for fracture with routine healing |
| S12.110G | Anterior displaced Type II dens fracture, subsequent encounter for fracture with delayed healing |
| S12.110K | Anterior displaced Type II dens fracture, subsequent encounter for fracture with nonunion |
| S12.111A | Posterior displaced Type II dens fracture, initial encounter for closed fracture |
| S12.111B | Posterior displaced Type II dens fracture, initial encounter for open fracture |
| S12.111D | Posterior displaced Type II dens fracture, subsequent encounter for fracture with routine healing |
| S12.111G | Posterior displaced Type II dens fracture, subsequent encounter for fracture with delayed healing |
| S12.111K | Posterior displaced Type II dens fracture, subsequent encounter for fracture with nonunion |
| S12.112A | Nondisplaced Type II dens fracture, initial encounter for closed fracture |
| S12.112B | Nondisplaced Type II dens fracture, initial encounter for open fracture |
| S12.112D | Nondisplaced Type II dens fracture, subsequent encounter for fracture with routine healing |
| S12.112G | Nondisplaced Type II dens fracture, subsequent encounter for fracture with delayed healing |
| S12.112K | Nondisplaced Type II dens fracture, subsequent encounter for fracture with nonunion |
| S12.120A | Other displaced dens fracture, initial encounter for closed fracture |
| S12.120B | Other displaced dens fracture, initial encounter for open fracture |
| S12.120D | Other displaced dens fracture, subsequent encounter for fracture with routine healing |
| S12.120G | Other displaced dens fracture, subsequent encounter for fracture with delayed healing |
| S12.120K | Other displaced dens fracture, subsequent encounter for fracture with nonunion |
| S12.121A | Other nondisplaced dens fracture, initial encounter for closed fracture |
| S12.121B | Other nondisplaced dens fracture, initial encounter for open fracture |

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| S12.121D | Other nondisplaced dens fracture, subsequent encounter for fracture with routine healing |
| S12.121G | Other nondisplaced dens fracture, subsequent encounter for fracture with delayed healing |
| S12.121K | Other nondisplaced dens fracture, subsequent encounter for fracture with nonunion |
| S12.130A | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture |
| S12.130B | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture |
| S12.130D | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.130G | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.130K | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.131A | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture |
| S12.131B | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture |
| S12.131D | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.131G | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.131K | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.14xA | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for closed fracture |
| S12.14xB | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for open fracture |
| S12.14xD | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.14xG | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.14xK | Type III traumatic spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.150A | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture |
| S12.150B | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture |
| S12.150D | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.150G | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.150K | Other traumatic displaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.151A | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture |
| S12.151B | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture |
| S12.151D | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.151G | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.151K | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.190A | Other displaced fracture of second cervical vertebra, initial encounter for closed fracture |
| S12.190B | Other displaced fracture of second cervical vertebra, initial encounter for open fracture |
| S12.190D | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.190G | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.190K | Other displaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.191A | Other nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture |
| S12.191B | Other nondisplaced fracture of second cervical vertebra, initial encounter for open fracture |
| S12.191D | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with routine healing |

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| S12.191G | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.191K | Other nondisplaced fracture of second cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.191S | Other nondisplaced fracture of second cervical vertebra, sequela |
| S12.200A | Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture |
| S12.200B | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture |
| S12.200D | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.200G | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.200K | Unspecified displaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.201A | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture |
| S12.201B | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture |
| S12.201D | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.201G | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.201K | Unspecified nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.230A | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture |
| S12.230B | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture |
| S12.230D | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.230G | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.230K | Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.231A | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture |
| S12.231B | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture |
| S12.231D | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.231G | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.231K | Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.24xA | Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for closed fracture |
| S12.24xB | Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for open fracture |
| S12.24xD | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.24xG | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.24xK | Type III traumatic spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.250A | Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture |
| S12.250B | Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture |
| S12.250D | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.250G | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.250K | Other traumatic displaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.251A | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture |
| S12.251B | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture |
| S12.251D | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.251G | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with delayed healing |

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| S12.251K | Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.290A | Other displaced fracture of third cervical vertebra, initial encounter for closed fracture |
| S12.290B | Other displaced fracture of third cervical vertebra, initial encounter for open fracture |
| S12.290D | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.290G | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.290K | Other displaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.291A | Other nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture |
| S12.291B | Other nondisplaced fracture of third cervical vertebra, initial encounter for open fracture |
| S12.291D | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.291G | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.291K | Other nondisplaced fracture of third cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.300A | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture |
| S12.300B | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture |
| S12.300D | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.300G | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.300K | Unspecified displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.301A | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture |
| S12.301B | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture |
| S12.301D | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.301G | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.301K | Unspecified nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.330A | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture |
| S12.330B | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture |
| S12.330D | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.330G | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.330K | Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.331A | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture |
| S12.331B | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture |
| S12.331D | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.331G | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.331K | Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.34xA | Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture |
| S12.34xB | Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture |
| S12.34xD | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.34xG | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.34xK | Type III traumatic spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.350A | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture |
| S12.350B | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture |
| S12.350D | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine |

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| | healing |
| S12.350G | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.350K | Other traumatic displaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.351A | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture |
| S12.351B | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture |
| S12.351D | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.351G | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.351K | Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.390A | Other displaced fracture of fourth cervical vertebra, initial encounter for closed fracture |
| S12.390B | Other displaced fracture of fourth cervical vertebra, initial encounter for open fracture |
| S12.390D | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.390G | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.390K | Other displaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.391A | Other nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture |
| S12.391B | Other nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture |
| S12.391D | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.391G | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.391K | Other nondisplaced fracture of fourth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.400A | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture |
| S12.400B | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture |
| S12.400D | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.400G | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.400K | Unspecified displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.401A | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture |
| S12.401B | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture |
| S12.401D | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.401G | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.401K | Unspecified nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.430A | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture |
| S12.430B | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture |
| S12.430D | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.430G | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.430K | Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.431A | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture |
| S12.431B | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture |
| S12.431D | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.431G | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.431K | Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with |

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| | nonunion |
| S12.44xA | Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture |
| S12.44xB | Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture |
| S12.44xD | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.44xG | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.44xK | Type III traumatic spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.450A | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture |
| S12.450B | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture |
| S12.450D | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.450G | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.450K | Other traumatic displaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.451A | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture |
| S12.451B | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture |
| S12.451D | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.451G | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.451K | Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.490A | Other displaced fracture of fifth cervical vertebra, initial encounter for closed fracture |
| S12.490B | Other displaced fracture of fifth cervical vertebra, initial encounter for open fracture |
| S12.490D | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.490G | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.490K | Other displaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.491A | Other nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture |
| S12.491B | Other nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture |
| S12.491D | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.491G | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.491K | Other nondisplaced fracture of fifth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.500A | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture |
| S12.500B | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture |
| S12.500D | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.500G | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.500K | Unspecified displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.501A | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture |
| S12.501B | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture |
| S12.501D | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.501G | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.501K | Unspecified nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.530A | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture |
| S12.530B | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture |
| S12.530D | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing |

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| S12.530G | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.530K | Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.531A | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture |
| S12.531B | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture |
| S12.531D | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.531G | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.531K | Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.54xA | Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture |
| S12.54xB | Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture |
| S12.54xD | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.54xG | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.54xK | Type III traumatic spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.550A | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture |
| S12.550B | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture |
| S12.550D | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.550G | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.550K | Other traumatic displaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.551A | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture |
| S12.551B | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial encounter for open fracture |
| S12.551D | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.551G | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.551K | Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.590A | Other displaced fracture of sixth cervical vertebra, initial encounter for closed fracture |
| S12.590B | Other displaced fracture of sixth cervical vertebra, initial encounter for open fracture |
| S12.590D | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.590G | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.590K | Other displaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.591A | Other nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture |
| S12.591B | Other nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture |
| S12.591D | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.591G | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.591K | Other nondisplaced fracture of sixth cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.600A | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture |
| S12.600B | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture |
| S12.600D | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.600G | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.600K | Unspecified displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion |

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| S12.601A | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture |
| S12.601B | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture |
| S12.601D | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.601G | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.601K | Unspecified nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.630A | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture |
| S12.630B | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture |
| S12.630D | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.630G | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.630K | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.631A | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture |
| S12.631B | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture |
| S12.631D | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.631G | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.631K | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.64xA | Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture |
| S12.64xB | Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture |
| S12.64xD | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.64xG | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.64xK | Type III traumatic spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.650A | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture |
| S12.650B | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture |
| S12.650D | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.650G | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.650K | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.651A | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture |
| S12.651B | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for open fracture |
| S12.651D | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.651G | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.651K | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.690A | Other displaced fracture of seventh cervical vertebra, initial encounter for closed fracture |
| S12.690B | Other displaced fracture of seventh cervical vertebra, initial encounter for open fracture |
| S12.690D | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.690G | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.690K | Other displaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.691A | Other nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture |

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| S12.691B | Other nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture |
| S12.691D | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with routine healing |
| S12.691G | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with delayed healing |
| S12.691K | Other nondisplaced fracture of seventh cervical vertebra, subsequent encounter for fracture with nonunion |
| S12.9xxA | Fracture of neck, unspecified, initial encounter |
| S12.9xxD | Fracture of neck, unspecified, subsequent encounter |
| S14.101A | Unspecified injury at C1 level of cervical spinal cord, initial encounter |
| S14.101D | Unspecified injury at C1 level of cervical spinal cord, subsequent encounter |
| S14.101S | Unspecified injury at C1 level of cervical spinal cord, sequela |
| S14.102A | Unspecified injury at C2 level of cervical spinal cord, initial encounter |
| S14.102D | Unspecified injury at C2 level of cervical spinal cord, subsequent encounter |
| S14.102S | Unspecified injury at C2 level of cervical spinal cord, sequela |
| S14.103A | Unspecified injury at C3 level of cervical spinal cord, initial encounter |
| S14.104A | Unspecified injury at C4 level of cervical spinal cord, initial encounter |
| S14.105A | Unspecified injury at C5 level of cervical spinal cord, initial encounter |
| S14.106A | Unspecified injury at C6 level of cervical spinal cord, initial encounter |
| S14.107A | Unspecified injury at C7 level of cervical spinal cord, initial encounter |
| S14.109A | Unspecified injury at unspecified level of cervical spinal cord, initial encounter |
| S14.111A | Complete lesion at C1 level of cervical spinal cord, initial encounter |
| S14.112A | Complete lesion at C2 level of cervical spinal cord, initial encounter |
| S14.113A | Complete lesion at C3 level of cervical spinal cord, initial encounter |
| S14.114A | Complete lesion at C4 level of cervical spinal cord, initial encounter |
| S14.115A | Complete lesion at C5 level of cervical spinal cord, initial encounter |
| S14.116A | Complete lesion at C6 level of cervical spinal cord, initial encounter |
| S14.117A | Complete lesion at C7 level of cervical spinal cord, initial encounter |
| S14.121A | Central cord syndrome at C1 level of cervical spinal cord, initial encounter |
| S14.122A | Central cord syndrome at C2 level of cervical spinal cord, initial encounter |
| S14.123A | Central cord syndrome at C3 level of cervical spinal cord, initial encounter |
| S14.124A | Central cord syndrome at C4 level of cervical spinal cord, initial encounter |
| S14.125A | Central cord syndrome at C5 level of cervical spinal cord, initial encounter |
| S14.126A | Central cord syndrome at C6 level of cervical spinal cord, initial encounter |
| S14.127A | Central cord syndrome at C7 level of cervical spinal cord, initial encounter |
| S14.131A | Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter |
| S14.132A | Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter |
| S14.133A | Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter |
| S14.134A | Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter |
| S14.135A | Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter |
| S14.136A | Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter |
| S14.137A | Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter |
| S14.151A | Other incomplete lesion at C1 level of cervical spinal cord, initial encounter |
| S14.152A | Other incomplete lesion at C2 level of cervical spinal cord, initial encounter |
| S14.153A | Other incomplete lesion at C3 level of cervical spinal cord, initial encounter |

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| S14.154A | Other incomplete lesion at C4 level of cervical spinal cord, initial encounter |
| S14.155A | Other incomplete lesion at C5 level of cervical spinal cord, initial encounter |
| S14.156A | Other incomplete lesion at C6 level of cervical spinal cord, initial encounter |
| S14.157A | Other incomplete lesion at C7 level of cervical spinal cord, initial encounter |
| S22.000A | Wedge compression fracture of unspecified thoracic vertebra, initial encounter for closed fracture |
| S22.000B | Wedge compression fracture of unspecified thoracic vertebra, initial encounter for open fracture |
| S22.000D | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.000G | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.000K | Wedge compression fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.001A | Stable burst fracture of unspecified thoracic vertebra, initial encounter for closed fracture |
| S22.001B | Stable burst fracture of unspecified thoracic vertebra, initial encounter for open fracture |
| S22.001D | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.001G | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.001K | Stable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.002A | Unstable burst fracture of unspecified thoracic vertebra, initial encounter for closed fracture |
| S22.002B | Unstable burst fracture of unspecified thoracic vertebra, initial encounter for open fracture |
| S22.002D | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.002G | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.002K | Unstable burst fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.008A | Other fracture of unspecified thoracic vertebra, initial encounter for closed fracture |
| S22.008B | Other fracture of unspecified thoracic vertebra, initial encounter for open fracture |
| S22.008D | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.008G | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.008K | Other fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.009A | Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture |
| S22.009B | Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture |
| S22.009D | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.009G | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.009K | Unspecified fracture of unspecified thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.010A | Wedge compression fracture of first thoracic vertebra, initial encounter for closed fracture |
| S22.010B | Wedge compression fracture of first thoracic vertebra, initial encounter for open fracture |
| S22.010D | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.010G | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.010K | Wedge compression fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.011A | Stable burst fracture of first thoracic vertebra, initial encounter for closed fracture |
| S22.011B | Stable burst fracture of first thoracic vertebra, initial encounter for open fracture |
| S22.011D | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.011G | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.011K | Stable burst fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.012A | Unstable burst fracture of first thoracic vertebra, initial encounter for closed fracture |
| S22.012B | Unstable burst fracture of first thoracic vertebra, initial encounter for open fracture |
| S22.012D | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing |

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| S22.012G | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.012K | Unstable burst fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.018A | Other fracture of first thoracic vertebra, initial encounter for closed fracture |
| S22.018B | Other fracture of first thoracic vertebra, initial encounter for open fracture |
| S22.018D | Other fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.018G | Other fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.018K | Other fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.019A | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture |
| S22.019B | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture |
| S22.019D | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.019G | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.019K | Unspecified fracture of first thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.020A | Wedge compression fracture of second thoracic vertebra, initial encounter for closed fracture |
| S22.020B | Wedge compression fracture of second thoracic vertebra, initial encounter for open fracture |
| S22.020D | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.020G | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.020K | Wedge compression fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.021A | Stable burst fracture of second thoracic vertebra, initial encounter for closed fracture |
| S22.021B | Stable burst fracture of second thoracic vertebra, initial encounter for open fracture |
| S22.021D | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.021G | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.021K | Stable burst fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.022A | Unstable burst fracture of second thoracic vertebra, initial encounter for closed fracture |
| S22.022B | Unstable burst fracture of second thoracic vertebra, initial encounter for open fracture |
| S22.022D | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.022G | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.022K | Unstable burst fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.028A | Other fracture of second thoracic vertebra, initial encounter for closed fracture |
| S22.028B | Other fracture of second thoracic vertebra, initial encounter for open fracture |
| S22.028D | Other fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.028G | Other fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.028K | Other fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.029A | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture |
| S22.029B | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture |
| S22.029D | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.029G | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.029K | Unspecified fracture of second thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.030A | Wedge compression fracture of third thoracic vertebra, initial encounter for closed fracture |
| S22.030B | Wedge compression fracture of third thoracic vertebra, initial encounter for open fracture |
| S22.030D | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.030G | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.030K | Wedge compression fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion |

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| S22.031A | Stable burst fracture of third thoracic vertebra, initial encounter for closed fracture |
| S22.031B | Stable burst fracture of third thoracic vertebra, initial encounter for open fracture |
| S22.031D | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.031G | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.031K | Stable burst fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.032A | Unstable burst fracture of third thoracic vertebra, initial encounter for closed fracture |
| S22.032B | Unstable burst fracture of third thoracic vertebra, initial encounter for open fracture |
| S22.032D | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.032G | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.032K | Unstable burst fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.038A | Other fracture of third thoracic vertebra, initial encounter for closed fracture |
| S22.038B | Other fracture of third thoracic vertebra, initial encounter for open fracture |
| S22.038D | Other fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.038G | Other fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.038K | Other fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.039A | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture |
| S22.039B | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture |
| S22.039D | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.039G | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.039K | Unspecified fracture of third thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.040A | Wedge compression fracture of fourth thoracic vertebra, initial encounter for closed fracture |
| S22.040B | Wedge compression fracture of fourth thoracic vertebra, initial encounter for open fracture |
| S22.040D | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.040G | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.040K | Wedge compression fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.041A | Stable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture |
| S22.041B | Stable burst fracture of fourth thoracic vertebra, initial encounter for open fracture |
| S22.041D | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.041G | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.041K | Stable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.042A | Unstable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture |
| S22.042B | Unstable burst fracture of fourth thoracic vertebra, initial encounter for open fracture |
| S22.042D | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.042G | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.042K | Unstable burst fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.048A | Other fracture of fourth thoracic vertebra, initial encounter for closed fracture |
| S22.048B | Other fracture of fourth thoracic vertebra, initial encounter for open fracture |
| S22.048D | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.048G | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.048K | Other fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.049A | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture |
| S22.049B | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture |

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| S22.049D | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.049G | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.049K | Unspecified fracture of fourth thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.050A | Wedge compression fracture of T5-T6 vertebra, initial encounter for closed fracture |
| S22.050B | Wedge compression fracture of T5-T6 vertebra, initial encounter for open fracture |
| S22.050D | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing |
| S22.050G | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing |
| S22.050K | Wedge compression fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion |
| S22.051A | Stable burst fracture of T5-T6 vertebra, initial encounter for closed fracture |
| S22.051B | Stable burst fracture of T5-T6 vertebra, initial encounter for open fracture |
| S22.051D | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing |
| S22.051G | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing |
| S22.051K | Stable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion |
| S22.052A | Unstable burst fracture of T5-T6 vertebra, initial encounter for closed fracture |
| S22.052B | Unstable burst fracture of T5-T6 vertebra, initial encounter for open fracture |
| S22.052D | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing |
| S22.052G | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing |
| S22.052K | Unstable burst fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion |
| S22.058A | Other fracture of T5-T6 vertebra, initial encounter for closed fracture |
| S22.058B | Other fracture of T5-T6 vertebra, initial encounter for open fracture |
| S22.058D | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing |
| S22.058G | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing |
| S22.058K | Other fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion |
| S22.059A | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture |
| S22.059B | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture |
| S22.059D | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with routine healing |
| S22.059G | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with delayed healing |
| S22.059K | Unspecified fracture of T5-T6 vertebra, subsequent encounter for fracture with nonunion |
| S22.060A | Wedge compression fracture of T7-T8 vertebra, initial encounter for closed fracture |
| S22.060B | Wedge compression fracture of T7-T8 vertebra, initial encounter for open fracture |
| S22.060D | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing |
| S22.060G | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing |
| S22.060K | Wedge compression fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion |
| S22.061A | Stable burst fracture of T7-T8 vertebra, initial encounter for closed fracture |
| S22.061B | Stable burst fracture of T7-T8 vertebra, initial encounter for open fracture |
| S22.061D | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing |
| S22.061G | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing |
| S22.061K | Stable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion |
| S22.062A | Unstable burst fracture of T7-T8 vertebra, initial encounter for closed fracture |
| S22.062B | Unstable burst fracture of T7-T8 vertebra, initial encounter for open fracture |
| S22.062D | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing |
| S22.062G | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing |

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| S22.062K | Unstable burst fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion |
| S22.068A | Other fracture of T7-T8 thoracic vertebra, initial encounter for closed fracture |
| S22.068B | Other fracture of T7-T8 thoracic vertebra, initial encounter for open fracture |
| S22.068D | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with routine healing |
| S22.068G | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with delayed healing |
| S22.068K | Other fracture of T7-T8 thoracic vertebra, subsequent encounter for fracture with nonunion |
| S22.069A | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture |
| S22.069B | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture |
| S22.069D | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with routine healing |
| S22.069G | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with delayed healing |
| S22.069K | Unspecified fracture of T7-T8 vertebra, subsequent encounter for fracture with nonunion |
| S22.070A | Wedge compression fracture of T9-T10 vertebra, initial encounter for closed fracture |
| S22.070B | Wedge compression fracture of T9-T10 vertebra, initial encounter for open fracture |
| S22.070D | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing |
| S22.070G | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing |
| S22.070K | Wedge compression fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion |
| S22.071A | Stable burst fracture of T9-T10 vertebra, initial encounter for closed fracture |
| S22.071B | Stable burst fracture of T9-T10 vertebra, initial encounter for open fracture |
| S22.071D | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing |
| S22.071G | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing |
| S22.071K | Stable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion |
| S22.072A | Unstable burst fracture of T9-T10 vertebra, initial encounter for closed fracture |
| S22.072B | Unstable burst fracture of T9-T10 vertebra, initial encounter for open fracture |
| S22.072D | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing |
| S22.072G | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing |
| S22.072K | Unstable burst fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion |
| S22.078A | Other fracture of T9-T10 vertebra, initial encounter for closed fracture |
| S22.078B | Other fracture of T9-T10 vertebra, initial encounter for open fracture |
| S22.078D | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing |
| S22.078G | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing |
| S22.078K | Other fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion |
| S22.079A | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture |
| S22.079B | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture |
| S22.079D | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with routine healing |
| S22.079G | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with delayed healing |
| S22.079K | Unspecified fracture of T9-T10 vertebra, subsequent encounter for fracture with nonunion |
| S22.080A | Wedge compression fracture of T11-T12 vertebra, initial encounter for closed fracture |
| S22.080B | Wedge compression fracture of T11-T12 vertebra, initial encounter for open fracture |
| S22.080D | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing |
| S22.080G | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing |
| S22.080K | Wedge compression fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion |
| S22.081A | Stable burst fracture of T11-T12 vertebra, initial encounter for closed fracture |

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| S22.081B | Stable burst fracture of T11-T12 vertebra, initial encounter for open fracture |
| S22.081D | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing |
| S22.081G | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing |
| S22.081K | Stable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion |
| S22.082A | Unstable burst fracture of T11-T12 vertebra, initial encounter for closed fracture |
| S22.082B | Unstable burst fracture of T11-T12 vertebra, initial encounter for open fracture |
| S22.082D | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing |
| S22.082G | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing |
| S22.082K | Unstable burst fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion |
| S22.088A | Other fracture of T11-T12 vertebra, initial encounter for closed fracture |
| S22.088B | Other fracture of T11-T12 vertebra, initial encounter for open fracture |
| S22.088D | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing |
| S22.088G | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing |
| S22.088K | Other fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion |
| S22.089A | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture |
| S22.089B | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture |
| S22.089D | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with routine healing |
| S22.089G | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with delayed healing |
| S22.089K | Unspecified fracture of T11-T12 vertebra, subsequent encounter for fracture with nonunion |
| S24.101A | Unspecified injury at T1 level of thoracic spinal cord, initial encounter |
| S24.102A | Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter |
| S24.103A | Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter |
| S24.104A | Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter |
| S24.109A | Unspecified injury at unspecified level of thoracic spinal cord, initial encounter |
| S24.111A | Complete lesion at T1 level of thoracic spinal cord, initial encounter |
| S24.112A | Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter |
| S24.113A | Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter |
| S24.114A | Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter |
| S24.131A | Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter |
| S24.132A | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter |
| S24.133A | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter |
| S24.134A | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter |
| S24.151A | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter |
| S24.152A | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter |
| S24.153A | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter |
| S24.154A | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter |
| S32.000A | Wedge compression fracture of unspecified lumbar vertebra, initial encounter for closed fracture |
| S32.000B | Wedge compression fracture of unspecified lumbar vertebra, initial encounter for open fracture |
| S32.000D | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.000G | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.000K | Wedge compression fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.001A | Stable burst fracture of unspecified lumbar vertebra, initial encounter for closed fracture |

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| S32.001B | Stable burst fracture of unspecified lumbar vertebra, initial encounter for open fracture |
| S32.001D | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.001G | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.001K | Stable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.002A | Unstable burst fracture of unspecified lumbar vertebra, initial encounter for closed fracture |
| S32.002B | Unstable burst fracture of unspecified lumbar vertebra, initial encounter for open fracture |
| S32.002D | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.002G | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.002K | Unstable burst fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.008A | Other fracture of unspecified lumbar vertebra, initial encounter for closed fracture |
| S32.008B | Other fracture of unspecified lumbar vertebra, initial encounter for open fracture |
| S32.008D | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.008G | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.008K | Other fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.009A | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture |
| S32.009B | Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture |
| S32.009D | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.009G | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.009K | Unspecified fracture of unspecified lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.010A | Wedge compression fracture of first lumbar vertebra, initial encounter for closed fracture |
| S32.010B | Wedge compression fracture of first lumbar vertebra, initial encounter for open fracture |
| S32.010D | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.010G | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.010K | Wedge compression fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.011A | Stable burst fracture of first lumbar vertebra, initial encounter for closed fracture |
| S32.011B | Stable burst fracture of first lumbar vertebra, initial encounter for open fracture |
| S32.011D | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.011G | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.011K | Stable burst fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.012A | Unstable burst fracture of first lumbar vertebra, initial encounter for closed fracture |
| S32.012B | Unstable burst fracture of first lumbar vertebra, initial encounter for open fracture |
| S32.012D | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.012G | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.012K | Unstable burst fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.018A | Other fracture of first lumbar vertebra, initial encounter for closed fracture |
| S32.018B | Other fracture of first lumbar vertebra, initial encounter for open fracture |
| S32.018D | Other fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.018G | Other fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.018K | Other fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.019A | Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture |
| S32.019B | Unspecified fracture of first lumbar vertebra, initial encounter for open fracture |
| S32.019D | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with routine healing |

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| S32.019G | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.019K | Unspecified fracture of first lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.020A | Wedge compression fracture of second lumbar vertebra, initial encounter for closed fracture |
| S32.020B | Wedge compression fracture of second lumbar vertebra, initial encounter for open fracture |
| S32.020D | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.020G | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.020K | Wedge compression fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.021A | Stable burst fracture of second lumbar vertebra, initial encounter for closed fracture |
| S32.021B | Stable burst fracture of second lumbar vertebra, initial encounter for open fracture |
| S32.021D | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.021G | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.021K | Stable burst fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.022A | Unstable burst fracture of second lumbar vertebra, initial encounter for closed fracture |
| S32.022B | Unstable burst fracture of second lumbar vertebra, initial encounter for open fracture |
| S32.022D | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.022G | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.022K | Unstable burst fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.028A | Other fracture of second lumbar vertebra, initial encounter for closed fracture |
| S32.028B | Other fracture of second lumbar vertebra, initial encounter for open fracture |
| S32.028D | Other fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.028G | Other fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.028K | Other fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.029A | Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture |
| S32.029B | Unspecified fracture of second lumbar vertebra, initial encounter for open fracture |
| S32.029D | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.029G | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.029K | Unspecified fracture of second lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.030A | Wedge compression fracture of third lumbar vertebra, initial encounter for closed fracture |
| S32.030B | Wedge compression fracture of third lumbar vertebra, initial encounter for open fracture |
| S32.030D | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.030G | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.030K | Wedge compression fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.031A | Stable burst fracture of third lumbar vertebra, initial encounter for closed fracture |
| S32.031B | Stable burst fracture of third lumbar vertebra, initial encounter for open fracture |
| S32.031D | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.031G | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.031K | Stable burst fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.032A | Unstable burst fracture of third lumbar vertebra, initial encounter for closed fracture |
| S32.032B | Unstable burst fracture of third lumbar vertebra, initial encounter for open fracture |
| S32.032D | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.032G | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.032K | Unstable burst fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion |

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| S32.038A | Other fracture of third lumbar vertebra, initial encounter for closed fracture |
| S32.038B | Other fracture of third lumbar vertebra, initial encounter for open fracture |
| S32.038D | Other fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.038G | Other fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.038K | Other fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.039A | Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture |
| S32.039B | Unspecified fracture of third lumbar vertebra, initial encounter for open fracture |
| S32.039D | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.039G | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.039K | Unspecified fracture of third lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.040A | Wedge compression fracture of fourth lumbar vertebra, initial encounter for closed fracture |
| S32.040B | Wedge compression fracture of fourth lumbar vertebra, initial encounter for open fracture |
| S32.040D | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.040G | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.040K | Wedge compression fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.041A | Stable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture |
| S32.041B | Stable burst fracture of fourth lumbar vertebra, initial encounter for open fracture |
| S32.041D | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.041G | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.041K | Stable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.042A | Unstable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture |
| S32.042B | Unstable burst fracture of fourth lumbar vertebra, initial encounter for open fracture |
| S32.042D | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.042G | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.042K | Unstable burst fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.048A | Other fracture of fourth lumbar vertebra, initial encounter for closed fracture |
| S32.048B | Other fracture of fourth lumbar vertebra, initial encounter for open fracture |
| S32.048D | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.048G | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.048K | Other fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.049A | Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture |
| S32.049B | Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture |
| S32.049D | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.049G | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.049K | Unspecified fracture of fourth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.050A | Wedge compression fracture of fifth lumbar vertebra, initial encounter for closed fracture |
| S32.050B | Wedge compression fracture of fifth lumbar vertebra, initial encounter for open fracture |
| S32.050D | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.050G | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.050K | Wedge compression fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.051A | Stable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture |
| S32.051B | Stable burst fracture of fifth lumbar vertebra, initial encounter for open fracture |

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| S32.051D | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.051G | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.051K | Stable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.052A | Unstable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture |
| S32.052B | Unstable burst fracture of fifth lumbar vertebra, initial encounter for open fracture |
| S32.052D | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.052G | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.052K | Unstable burst fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.058A | Other fracture of fifth lumbar vertebra, initial encounter for closed fracture |
| S32.058B | Other fracture of fifth lumbar vertebra, initial encounter for open fracture |
| S32.058D | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.058G | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.058K | Other fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.059A | Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture |
| S32.059B | Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture |
| S32.059D | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with routine healing |
| S32.059G | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with delayed healing |
| S32.059K | Unspecified fracture of fifth lumbar vertebra, subsequent encounter for fracture with nonunion |
| S32.10xA | Unspecified fracture of sacrum, initial encounter for closed fracture |
| S32.10xB | Unspecified fracture of sacrum, initial encounter for open fracture |
| S32.10xD | Unspecified fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.10xG | Unspecified fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.10xK | Unspecified fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.110A | Nondisplaced Zone I fracture of sacrum, initial encounter for closed fracture |
| S32.110B | Nondisplaced Zone I fracture of sacrum, initial encounter for open fracture |
| S32.110D | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.110G | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.110K | Nondisplaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.111A | Minimally displaced Zone I fracture of sacrum, initial encounter for closed fracture |
| S32.111B | Minimally displaced Zone I fracture of sacrum, initial encounter for open fracture |
| S32.111D | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.111G | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.111K | Minimally displaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.112A | Severely displaced Zone I fracture of sacrum, initial encounter for closed fracture |
| S32.112B | Severely displaced Zone I fracture of sacrum, initial encounter for open fracture |
| S32.112D | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.112G | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.112K | Severely displaced Zone I fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.119A | Unspecified Zone I fracture of sacrum, initial encounter for closed fracture |
| S32.119B | Unspecified Zone I fracture of sacrum, initial encounter for open fracture |
| S32.119D | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.119G | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with delayed healing |

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| S32.119K | Unspecified Zone I fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.120A | Nondisplaced Zone II fracture of sacrum, initial encounter for closed fracture |
| S32.120B | Nondisplaced Zone II fracture of sacrum, initial encounter for open fracture |
| S32.120D | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.120G | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.120K | Nondisplaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.121A | Minimally displaced Zone II fracture of sacrum, initial encounter for closed fracture |
| S32.121B | Minimally displaced Zone II fracture of sacrum, initial encounter for open fracture |
| S32.121D | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.121G | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.121K | Minimally displaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.122A | Severely displaced Zone II fracture of sacrum, initial encounter for closed fracture |
| S32.122B | Severely displaced Zone II fracture of sacrum, initial encounter for open fracture |
| S32.122D | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.122G | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.122K | Severely displaced Zone II fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.129A | Unspecified Zone II fracture of sacrum, initial encounter for closed fracture |
| S32.129B | Unspecified Zone II fracture of sacrum, initial encounter for open fracture |
| S32.129D | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.129G | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.129K | Unspecified Zone II fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.130A | Nondisplaced Zone III fracture of sacrum, initial encounter for closed fracture |
| S32.130B | Nondisplaced Zone III fracture of sacrum, initial encounter for open fracture |
| S32.130D | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.130G | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.130K | Nondisplaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.131A | Minimally displaced Zone III fracture of sacrum, initial encounter for closed fracture |
| S32.131B | Minimally displaced Zone III fracture of sacrum, initial encounter for open fracture |
| S32.131D | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.131G | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.131K | Minimally displaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.132A | Severely displaced Zone III fracture of sacrum, initial encounter for closed fracture |
| S32.132B | Severely displaced Zone III fracture of sacrum, initial encounter for open fracture |
| S32.132D | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.132G | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.132K | Severely displaced Zone III fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.139A | Unspecified Zone III fracture of sacrum, initial encounter for closed fracture |
| S32.139B | Unspecified Zone III fracture of sacrum, initial encounter for open fracture |
| S32.139D | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.139G | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.139K | Unspecified Zone III fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.14xA | Type 1 fracture of sacrum, initial encounter for closed fracture |

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| S32.14xB | Type 1 fracture of sacrum, initial encounter for open fracture |
| S32.14xD | Type 1 fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.14xG | Type 1 fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.14xK | Type 1 fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.15xA | Type 2 fracture of sacrum, initial encounter for closed fracture |
| S32.15xB | Type 2 fracture of sacrum, initial encounter for open fracture |
| S32.15xD | Type 2 fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.15xG | Type 2 fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.15xK | Type 2 fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.16xA | Type 3 fracture of sacrum, initial encounter for closed fracture |
| S32.16xB | Type 3 fracture of sacrum, initial encounter for open fracture |
| S32.16xD | Type 3 fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.16xG | Type 3 fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.16xK | Type 3 fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.17xA | Type 4 fracture of sacrum, initial encounter for closed fracture |
| S32.17xB | Type 4 fracture of sacrum, initial encounter for open fracture |
| S32.17xD | Type 4 fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.17xG | Type 4 fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.17xK | Type 4 fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.19xA | Other fracture of sacrum, initial encounter for closed fracture |
| S32.19xB | Other fracture of sacrum, initial encounter for open fracture |
| S32.19xD | Other fracture of sacrum, subsequent encounter for fracture with routine healing |
| S32.19xG | Other fracture of sacrum, subsequent encounter for fracture with delayed healing |
| S32.19xK | Other fracture of sacrum, subsequent encounter for fracture with nonunion |
| S32.2xxA | Fracture of coccyx, initial encounter for closed fracture |
| S32.2xxB | Fracture of coccyx, initial encounter for open fracture |
| S32.2xxD | Fracture of coccyx, subsequent encounter for fracture with routine healing |
| S32.2xxG | Fracture of coccyx, subsequent encounter for fracture with delayed healing |
| S32.2xxK | Fracture of coccyx, subsequent encounter for fracture with nonunion |
| S34.101A | Unspecified injury to L1 level of lumbar spinal cord, initial encounter |
| S34.102A | Unspecified injury to L2 level of lumbar spinal cord, initial encounter |
| S34.103A | Unspecified injury to L3 level of lumbar spinal cord, initial encounter |
| S34.104A | Unspecified injury to L4 level of lumbar spinal cord, initial encounter |
| S34.105A | Unspecified injury to L5 level of lumbar spinal cord, initial encounter |
| S34.109A | Unspecified injury to unspecified level of lumbar spinal cord, initial encounter |
| S34.111A | Complete lesion of L1 level of lumbar spinal cord, initial encounter |
| S34.112A | Complete lesion of L2 level of lumbar spinal cord, initial encounter |
| S34.113A | Complete lesion of L3 level of lumbar spinal cord, initial encounter |
| S34.114A | Complete lesion of L4 level of lumbar spinal cord, initial encounter |
| S34.115A | Complete lesion of L5 level of lumbar spinal cord, initial encounter |
| S34.119A | Complete lesion of unspecified level of lumbar spinal cord, initial encounter |
| S34.121A | Incomplete lesion of L1 level of lumbar spinal cord, initial encounter |

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| S34.122A | Incomplete lesion of L2 level of lumbar spinal cord, initial encounter |
| S34.123A | Incomplete lesion of L3 level of lumbar spinal cord, initial encounter |
| S34.124A | Incomplete lesion of L4 level of lumbar spinal cord, initial encounter |
| S34.125A | Incomplete lesion of L5 level of lumbar spinal cord, initial encounter |
| S34.129A | Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter |
| S34.131A | Complete lesion of sacral spinal cord, initial encounter |
| S34.132A | Incomplete lesion of sacral spinal cord, initial encounter |
| S34.139A | Unspecified injury to sacral spinal cord, initial encounter |
| S34.3XXA | Injury of cauda equina, initial encounter |
| T38.0X5A | Adverse effect of glucocorticoids and synthetic analogues, initial encounter |
| T38.0X5D | Adverse effect of glucocorticoids and synthetic analogues, subsequent encounter |
| T38.0X5S | Adverse effect of glucocorticoids and synthetic analogues, sequela |
| T50.0X5A | Adverse effect of mineralocorticoids and their antagonists, initial encounter |
| T50.0X5D | Adverse effect of mineralocorticoids and their antagonists, subsequent encounter |
| T50.0X5S | Adverse effect of mineralocorticoids and their antagonists, sequela |
| Z13.820 | Encounter for screening for osteoporosis |
| Z78.0 | Asymptomatic menopausal state |
| Z79.3 | Long term (current) use of hormonal contraceptives |
| Z79.51 | Long term (current) use of inhaled steroids |
| Z79.52 | Long term (current) use of systemic steroids |
| Z79.811 | Long term (current) use of aromatase inhibitors |
| Z79.83 | Long term (current) use of bisphosphonates |
| Z87.310 | Personal history of (healed) other pathological fracture |
| Z79.890 | Hormone replacement therapy |
| Z90.721 | Acquired absence of ovaries, unilateral |
| Z90.722 | Acquired absence of ovaries, bilateral |

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Specialty-matched clinical peer review.

Endnote

ⁱ Factors modifying bone mineral density (BMD) — Extremes of body weight or significant change (more than 10%) in body weight can have on unpredictable effects on BMD and affect serial measurements.

| Region | Increased BMD | Decreased BMD |
|--------|---------------|---------------|
|--------|---------------|---------------|

| | | |
|-------|---|---|
| Hip | Excessive or inadequate internal hip rotation Osteoarthritis Metal artifact Focal skeletal sclerosis | Artifact overlying soft tissue Lytic lesions |
| Spine | Osteophytes Focal skeletal pathology (i.e., sclerosis, metastasis, or Paget’s disease) Vertebral compression fracture Vascular calcification Metal, radiology contrast, stones, calcium tablets or other artifact overlying spine | Artifacts overlying soft tissues Rotoscoliosis Laminectomy Lytic lesions |

Gender Affirming/Reassignment Surgery — New York

Last Review Date: May 8, 2020

Number: MG.MM.SU.28m

Medical Guideline Disclaimer

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Definitions

| | |
|---|--|
| Gender dysphoria | General descriptive term that refers to an individual's discontent with the assigned gender. It is more specifically defined when used as a diagnosis. See APPENDIX to view complete DSM V Gender Dysphoria definition |
| Transgender | Refers to the broad spectrum of individuals who transiently or persistently identify with a gender different from their gender at birth. |
| Transsexual | Refers to an individual who seeks, or has undergone, a social transition from male to female or female to male. In many, but not all, cases this also involves a physical transition through cross-sex hormone treatment and genital surgery (sex reassignment surgery). |
| Hormonal gender reassignment | The administration of androgens to genotypic and phenotypic females and estrogen or progesterones to genotypic or phenotypic males for the purpose of effecting somatic changes to more closely approximate the physical appearance of the genotypically other sex. ¹ Hormones are also utilized for pubertal suppression. |
| Genital surgical gender reassignment | Genital surgery that alters the morphology to approximate the physical appearance of the genetically other sex. The surgical procedures in the table below (occurring in the absence of any diagnosable birth defect or other medically defined pathology [except gender dysphoria]) are included in this category. |
| Gender non-conforming (TGNC-Transgender/ Gender Non-Conforming) | Also referred to as non-binary. Gender nonconformity refers to the extent to which a person's gender identity, role, or expression differs from the cultural norms prescribed for people of a particular sex. |

¹ Hormonal gender reassignment does not refer to the administration of hormones for the purpose of medical care or research conducted for the treatment or study of non-gender-dysphoric medical conditions (i.e., aplastic anemia, impotence, cancer).

| | |
|------------|--|
| Non-binary | The individual's identity does not exist as a dichotomy of male or female (binary) but rather identifies as belonging to neither male nor female genders and prefer pronouns such as <i>they</i> and <i>them</i> , and possibly label themselves as Gender Non-Conforming. |
|------------|--|

| Common Medically Necessary Procedures | |
|--|---|
| Breast augmentation* | Phalloplasty [±] |
| Breast reduction mammoplasty (trial of hormone therapy not pre-requisite) | Prostatectomy |
| Clitoroplasty | Salpingectomy |
| Hysterectomy | Scrotoplasty |
| Labioplasty | Testicular/penile prosthesis implantation |
| Mastectomy (trial of hormone therapy not pre-requisite) | Urethroplasty |
| Metoidioplasty | Vaginectomy |
| Oophorectomy | Vaginoplasty [±] |
| Orchiectomy | Vulvectomy |
| Penectomy | Vulvoplasty |
| <p>* Breast augmentation is considered medically necessary provided that the member has completed a minimum of 24 months of hormone therapy, during which time breast growth has been negligible; or hormone therapy is medically contraindicated; or the member is otherwise unable to take hormones</p> <p>[±] Genital electrolysis is not considered a surgical procedure, but is performed in conjunction with genital surgery (i.e., when required for vaginoplasty or phalloplasty)</p> | |

Guideline

- A.** Hormone therapy (whether or not in preparation for gender affirming/reassignment surgery) will be covered as follows:
1. Treatment with gonadotropin-releasing hormone agents (pubertal suppressants) when based upon a determination by a qualified medical professional that the member is eligible and ready for such treatment, i.e., that the member:
 - a. Meets gender dysphoria diagnostic criteria
 - b. Has experienced puberty to at least Tanner stage 2 with pubertal changes resulting in increased gender dysphoria
 - c. Does not suffer from psychiatric comorbidity that interferes with diagnostic work-up or treatment
 - d. Has adequate psychological and social support during treatment
 - e. Demonstrates knowledge and understanding of expected treatment-outcomes associated with pubertal suppressants and cross-sex hormones, as well as the medical and social risks and benefits of sex reassignment

2. Treatment with cross-sex hormones, including testosterone, cypionate, conjugated estrogen, and estradiol, for members **greater than or equal to 16** years of age, when based upon a determination of medical necessity made by a qualified medical professional. (Members less than 18 years of age must meet Criteria # 1).

Note: Requests for coverage of cross-sex hormones for members less than 16 years of age will be reviewed on a case-by-case basis.

- B. Gender affirming/reassignment surgery will be covered for members **greater than or equal to 18** years of age.**

The request must be accompanied by letters from two qualified New York State (NYS) licensed health professionals, acting within the scope of his/her practice, who have independently assessed the member and are referring the member for the surgery. (Note: Only one letter is required for breast surgery)

One letter must be from a psychiatrist, psychologist, psychiatric nurse practitioner (NP) or licensed clinical social worker (CSW) with whom the member has an established and ongoing relationship.

The other letter may be from a psychiatrist, psychologist, physician, psychiatric NP or licensed CSW who has only an evaluative role with the member.

Together, the letters must establish that the member:

1. Has a persistent and well-documented case of gender dysphoria
2. Has received hormone therapy (not prerequisite for mastectomy) appropriate to member's gender goals for a minimum of 12 months prior to seeking genital surgery (unless medically contraindicated or the member is otherwise unable to take hormones)
3. Has lived 12 months in gender role congruent with member's gender identity (inclusive of binary and Nonbinary Gender) and has received mental health counseling, as deemed medically necessary, during that time (Note: Not required for breast surgery)
4. Has no other significant medical or mental health conditions that would be a contraindication to gender reassignment surgery, or if so, that those are reasonably well-controlled prior to the gender reassignment surgery
5. Has the capacity to make fully informed decisions and consent to treatment

Limitations/Exclusions

- A. Requests for gender reassignment surgery for members less than 18 years will be reviewed on a case-by-case basis.**

- B. The following services and procedures are excluded from coverage:**

1. Cryopreservation, storage, and thawing of reproductive tissue (including all related services and charges)
2. Reversal of genital and/or breast surgery
3. Reversal of surgery to revise secondary sex characteristics
4. Reversal of any procedure resulting in sterilization

- C. Coverage is not available for any surgeries, services or procedures that are purely cosmetic (i.e., when performed solely to enhance appearance, but not to medically treat the underlying gender dysphoria).**

The following surgery, services and procedures will be reviewed on a case by case basis. It is expected that the clinical rationale for each requested procedure is specifically documented in the letter of medical necessity from the treating physician:

1. Abdominoplasty, blepharoplasty, neck tightening or removal of redundant skin
2. Breast, brow, face or forehead lifts
3. Calf, cheek, chin, nose or pectoral implants Collagen injections
4. Drugs to promote hair growth or loss
5. Electrolysis (unless required for vaginoplasty or phalloplasty)
6. Facial bone reconstruction, reduction or sculpturing (including jaw shortening) and rhinoplasty
7. Hair transplantation
8. Lip reduction
9. Liposuction
10. Thyroid chondroplasty
11. Voice therapy, voice lessons or voice modification surgery

Revision History

| | |
|------------|---|
| 5/8/2020 | <p>Specific to breast surgery:</p> <ol style="list-style-type: none"> 1. Eliminated two-letter prerequisite 2. Eliminated prerequisite requiring members to live 12 months in the gender congruent with the member's gender identity |
| 12/14/2018 | <ol style="list-style-type: none"> 1. Correction of clerical errors in Limitations/Exclusions Section C |
| 8/17/2018 | <ol style="list-style-type: none"> 1. Added New York to title 2. Added complete DSM V gender dysphoria definition |
| 6/8/2018 | <ol style="list-style-type: none"> 1. Changed title from Gender Reassignment Surgery to Gender Affirming/Reassignment Surgery 2. Added non-conforming non-binary and definitions 3. Added the term "affirming" to the Hormone and Surgical sections to denote inclusiveness |
| 4/11/2018 | <ol style="list-style-type: none"> 1. Moved augmentation mammoplasty from Limitations/Exclusions section (depicted as case-by-case when clinical criteria met) to covered procedures list (using same clinical criteria) 2. Removed age prerequisite for pubertal suppressants |
| 2/9/2018 | <ol style="list-style-type: none"> 1. Added breast reduction mammoplasty coverage for Medicaid members 2. Lowered hormone therapy age eligibility from 18 to 16 years of age for pubertal suppressants 3. Clarified the roll of medical necessity review for procedures that may be regarded as cosmetic |
| 8/11/2017 | <ol style="list-style-type: none"> 1. Added breast reduction mammoplasty to covered procedures list (Commercial and Medicare only) |
| 2/20/2017 | <ol style="list-style-type: none"> 1. Removed outdated/subjective terminology 2. Removed prerequisite that identified specific medical or mental health conditions which must be absent; clarifying, that no other significant medical or mental conditions should be present if contraindicated to surgery [or if so, reasonably well-controlled prior to surgery]) 3. Lowered eligibility for coverage of hormonal services from 18 to 16 years of age 4. Removed psychotherapy time-frame prerequisites and simplified requirements 5. Added to Limitations/Exclusions: Voice therapy, voice lessons and voice modification surgery |
| 1/13/2016 | <ol style="list-style-type: none"> 1. Removed mammoplasty as a medically necessary procedure for MtF gender reassignment |
| 6/20/2015 | <ol style="list-style-type: none"> 1. Clarified which surgical procedures are considered medically necessary and which are not 2. Added that hormone therapy is not pre-requisite to mastectomy 3. Added that cryopreservation, storage and thawing of reproductive tissue is not reimbursable |

Applicable ICD-10 Diagnosis Codes

| | |
|---------|--|
| F64.0 | Transsexualism |
| F64.1 | Gender Dysphoria (ICD 10 Code Diagnosis: Dual-Role Transvestism) |
| F64.8 | Other gender identity disorders |
| F64.9 | Gender identity disorder, unspecified |
| Z87.890 | Personal history of sex reassignment |

Applicable Procedure Codes

| | |
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| 19303 | Mastectomy, simple, complete |
| 19304 | Mastectomy, subcutaneous |
| 19318 | Reduction mammoplasty |
| 19324 | Mammoplasty, augmentation; without prosthetic implant |
| 19325 | Mammoplasty, augmentation; with prosthetic implant |
| 53430 | Urethroplasty, reconstruction of female urethra |
| 54125 | Amputation of penis; complete |
| 54520 | Orchiectomy, simple (including subcapsular), with or without testicular prosthesis, scrotal or inguinal approach |
| 54660 | Insertion of testicular prosthesis (separate procedure) |
| 54690 | Laparoscopy, surgical; orchiectomy |
| 55150 | Resection of scrotum |
| 55175 | Scrotoplasty; simple |
| 55180 | Scrotoplasty; complicated |
| 55801 | Prostatectomy, perineal, subtotal (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy) |
| 55810 | Prostatectomy, perineal radical; |
| 55812 | Prostatectomy, perineal radical; with lymph node biopsy(s) (limited pelvic lymphadenectomy) |
| 55815 | Prostatectomy, perineal radical; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes |
| 55821 | Prostatectomy (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy); suprapubic, subtotal, 1 or 2 stages |
| 55831 | Prostatectomy (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy); retropubic, subtotal |
| 55840 | Prostatectomy, retropubic radical, with or without nerve sparing; |
| 55842 | Prostatectomy, retropubic radical, with or without nerve sparing; with lymph node biopsy(s) (limited pelvic lymphadenectomy) |
| 55845 | Prostatectomy, retropubic radical, with or without nerve sparing; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes |
| 55866 | Laparoscopy, surgical prostatectomy, retropubic radical, including nerve sparing, includes robotic assistance, when performed |

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| 55970 | Intersex surgery; male to female |
| 55980 | Intersex surgery; female to male |
| 56620 | Vulvectomy simple; partial |
| 56625 | Vulvectomy simple; complete |
| 56800 | Plastic repair of introitus |
| 56805 | Clitoroplasty for intersex state |
| 57106 | Vaginectomy, partial removal of vaginal wall |
| 57107 | Vaginectomy, partial removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy) |
| 57110 | Vaginectomy, complete removal of vaginal wall |
| 57111 | Vaginectomy, complete removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy) |
| 57291 | Construction of artificial vagina; without graft |
| 57292 | Construction of artificial vagina; with graft |
| 57295 | Revision (including removal) of prosthetic vaginal graft; vaginal approach |
| 57296 | Revision (including removal) of prosthetic vaginal graft; open abdominal approach |
| 57335 | Vaginoplasty for intersex state |
| 57426 | Revision (including removal) of prosthetic vaginal graft, laparoscopic approach |
| 57530 | Trachelectomy (cervicectomy), amputation of cervix (separate procedure) |
| 58150 | Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s) |
| 58180 | Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s) |
| 58260 | Vaginal hysterectomy, for uterus 250 g or less |
| 58262 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s) |
| 58263 | Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s), with repair of enterocele |
| 58270 | Vaginal hysterectomy, for uterus 250 g or less; with repair of enterocele |
| 58275 | Vaginal hysterectomy, with total or partial vaginectomy |
| 58280 | Vaginal hysterectomy, with total or partial vaginectomy; with repair of enterocele |
| 58290 | Vaginal hysterectomy, for uterus greater than 250 g; |
| 58291 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s) |
| 58292 | Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s), with repair of enterocele |
| 58294 | Vaginal hysterectomy, for uterus greater than 250 g; with repair of enterocele |
| 58541 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less |
| 58542 | Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s) |
| 58543 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g |
| 58544 | Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s) |

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| 58550 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less |
| 58552 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s) |
| 58553 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g |
| 58554 | Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s) |
| 58570 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less |
| 58571 | Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s) |
| 58572 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g |
| 58573 | Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s) |
| 58661 | Laparoscopy, surgical; with removal of adnexal structures (partial or total oophorectomy and/or salpingectomy) |
| 58720 | Salpingo-oophorectomy, complete or partial, unilateral or bilateral (separate procedure) |
| 58940 | Oophorectomy, partial or total, unilateral or bilateral |

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APPENDIX

DSM V

Gender Dysphoria in Children 302.6 (F64.2)

- A. A marked incongruence between one's experienced/expressed gender and assigned gender, or at least 6 months duration, as manifested by at least six of the following (one of which must be Criterion A1):
1. A strong desire to be the other gender or an insistence that one is the other gender) or some alternative gender different from one's assigned gender).
 2. In boys (assigned gender), a strong preference for crossing-dressing or simulating female attire; or in girls (assigned gender), a strong preference for wearing only typical masculine clothing and a strong resistance to the wearing of typical feminine clothing.
 3. A strong preference for cross-gender roles in make-believe play or fantasy play
 4. A strong preference for the toys, games, or activities stereotypically used or engaged in by the other gender.
 5. A strong preference for playmates of the other gender
 6. In boys (assigned gender), a strong rejection of typically masculine toys, games and activities and a strong avoidance of rough-and-tumble play; or in girls (assigned gender), a strong rejection of typically feminine toys, games, and activities.
 7. A strong dislike of one's sexual anatomy.
 8. A strong desire for the primary and/or secondary sex characteristics that match one's experienced gender.
- B. The condition is associated with clinical significant distress or impairment in social, school, or other important areas of functioning.

Specify if:

With a disorder of sex development (e.g., a congenital adrenogenital disorder such as 255.2 (E25.) congenital adrenal hyperplasia or 259.50 (E34.50) androgen insensitivity syndrome).

Gender Dysphoria in Adolescent and Adults 302.85 (F64.1)

- A. A marked incongruence between one's experienced/expressed gender and assigned gender, of at least 6 months' duration, as manifested by at least two of the following:
1. A marked incongruence between one' experienced/expressed gender and primary and/or secondary sex characteristics (or in young adolescents, the anticipated secondary sex characteristics).
 2. A strong desire to be rid of one's primary and/or secondary sex characteristics because of a marked incongruence with one's experienced/expressed gender (or in young adolescents, a desire to prevent the development of the anticipated secondary sex characteristics).
 3. A strong desire for the primary and/or secondary sex characteristics of the other gender.
 4. A strong desire to be of the other gender (or some) alternative gender different from one's assigned gender).
 5. A strong desire to be treated as the other gender (or some alternative gender different from one's assigned gender).
 6. A strong conviction that one has the typical feelings and reactions of the other gender (or some alternative gender different from one's assigned gender).
- B. The condition is associated with clinically significant distress or impairment in social occupational, or other important areas of functioning.

Specify if:

With a disorder of sex development (e.g., a congenital adrenogenital disorder such as 255.2 (E25.) congenital adrenal hyperplasia or 259.50 (E34.50) androgen insensitivity syndrome).

Specify if:

Posttransition: The individual has transitioned to full-time living in the desired gender (with or without legalization of gender change) and has undergone (or is preparing to have) at least one cross-sex medical procedure or treatment regimen—namely, regular cross-sex hormone treatment or gender reassignment surgery confirming the desired gender (e.g., penectomy, vaginoplasty in a natal male; mastectomy or phalloplasty in a natal female).

Specifiers

The posttransition specifier may be used in the context of continuing treatment procedures that serve to support the new gender assignment.

Other Specified Gender Dysphoria 302.6 (F64.8)

This category applies to presentations in which symptoms characteristic of gender dysphoria that cause clinically significant distress or impairment in social, occupational, or other important areas of functioning predominate but do not meet the full criteria for gender dysphoria. The other specified gender dysphoria category is used in situations in which the clinician chooses to communicate the specific reason that the presentation does not meet the criteria for gender dysphoria. This is done by recording “other specified gender dysphoria” followed by the specific reason (e.g. “brief gender dysphoria”).

An example of presentation that can be specified using the “other specified” designation is the following:

The current disturbance meets symptom criteria for gender dysphoria, but the duration is less than 6 months.

Unspecified Gender Dysphoria 302.6 (F64.9)

This category applies to presentations in which symptoms characteristic of gender dysphoria that cause clinically significant distress or impairment in social, occupational, or other important areas of functioning predominate but do not meet the full criteria for gender dysphoria. The unspecified gender dysphoria category is used in situations in which the clinician chooses *not* to specify the reason that the criteria are not met for gender dysphoria, and includes presentations in which there is insufficient information to make a more specific diagnosis.

June 19, 2020

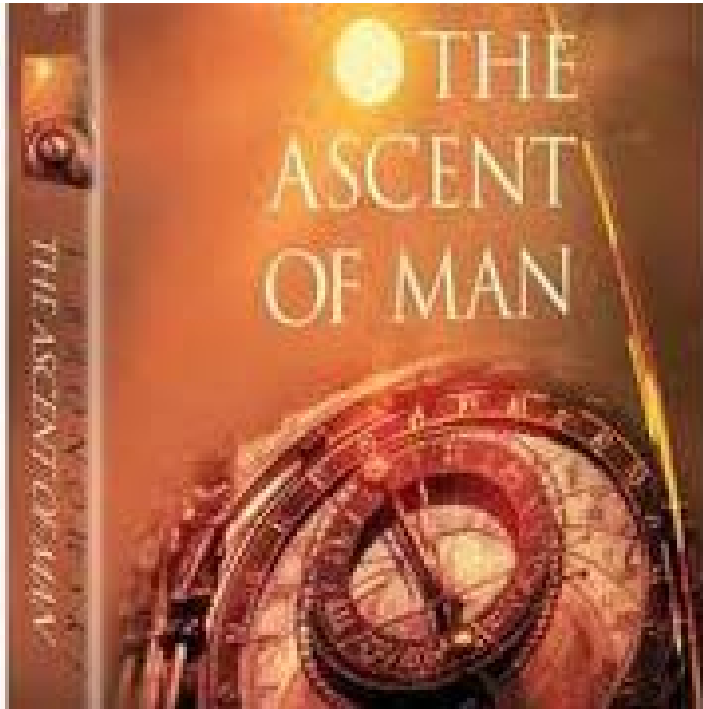
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Optional presentation subtitle

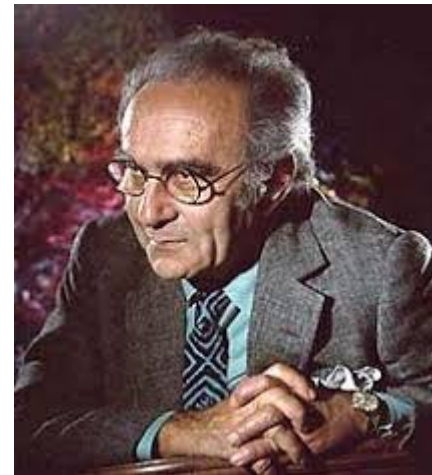


HealthCare Partners, IPA
HealthCare Partners, MSO

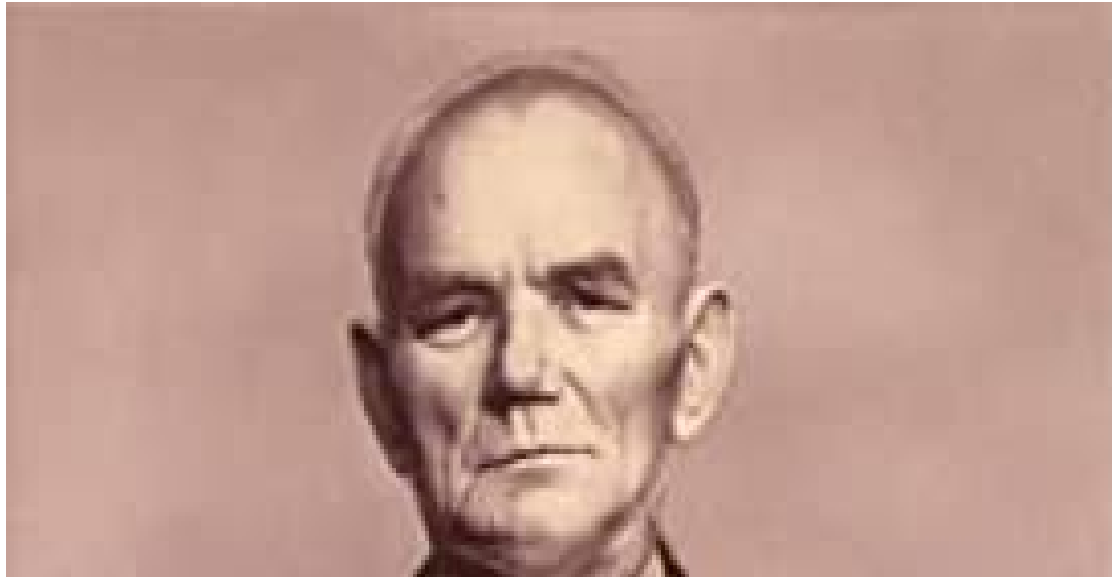
The Ascent of Man



Jacob Bronowski



Episode 11 Knowledge or Certainty



Certainty=Dogma=Oppression



Ptolemy



The Model Evolves



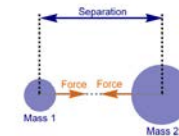
Copernicus and Kepler



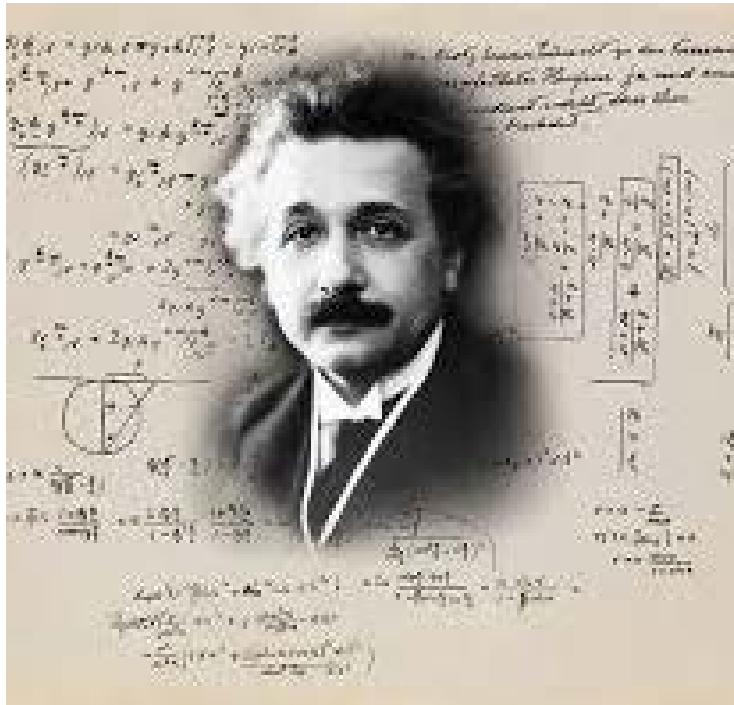
Newton



Newton's Law of Universal Gravitation



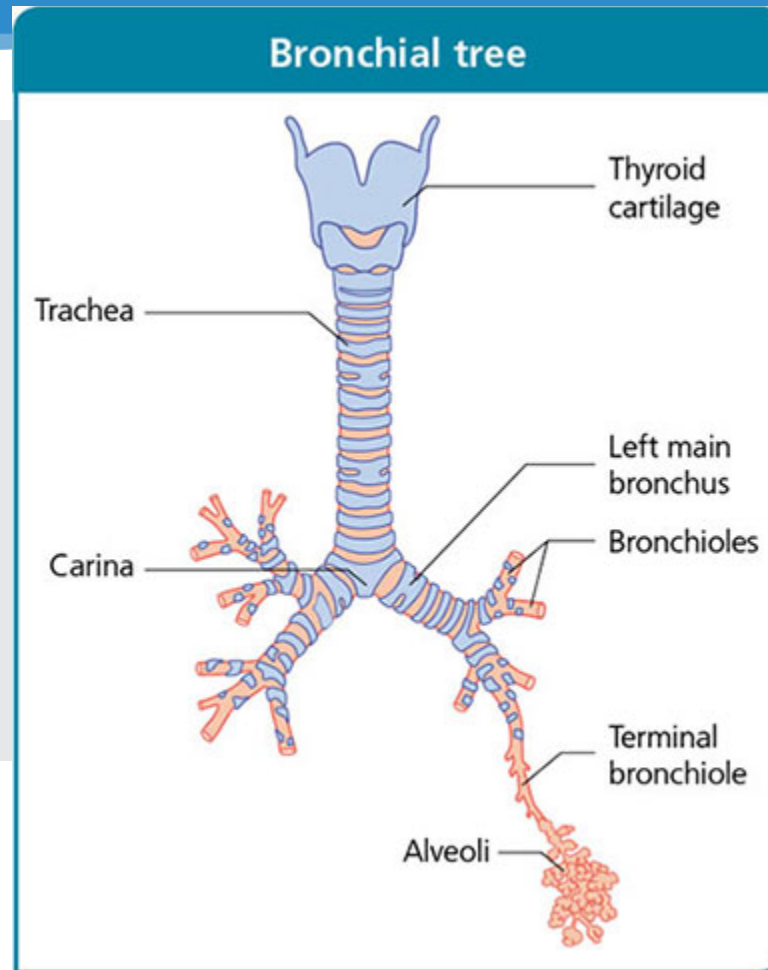
Gravity Refined



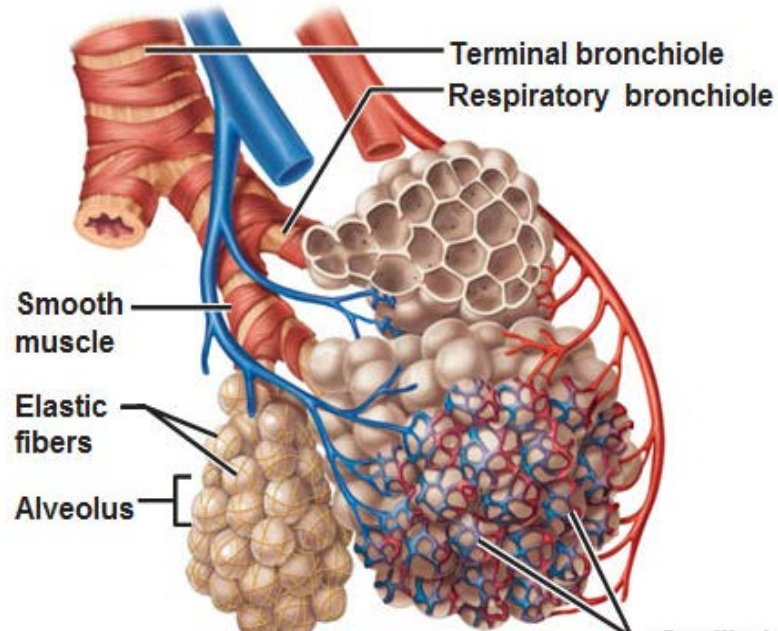
The Fabric of Space



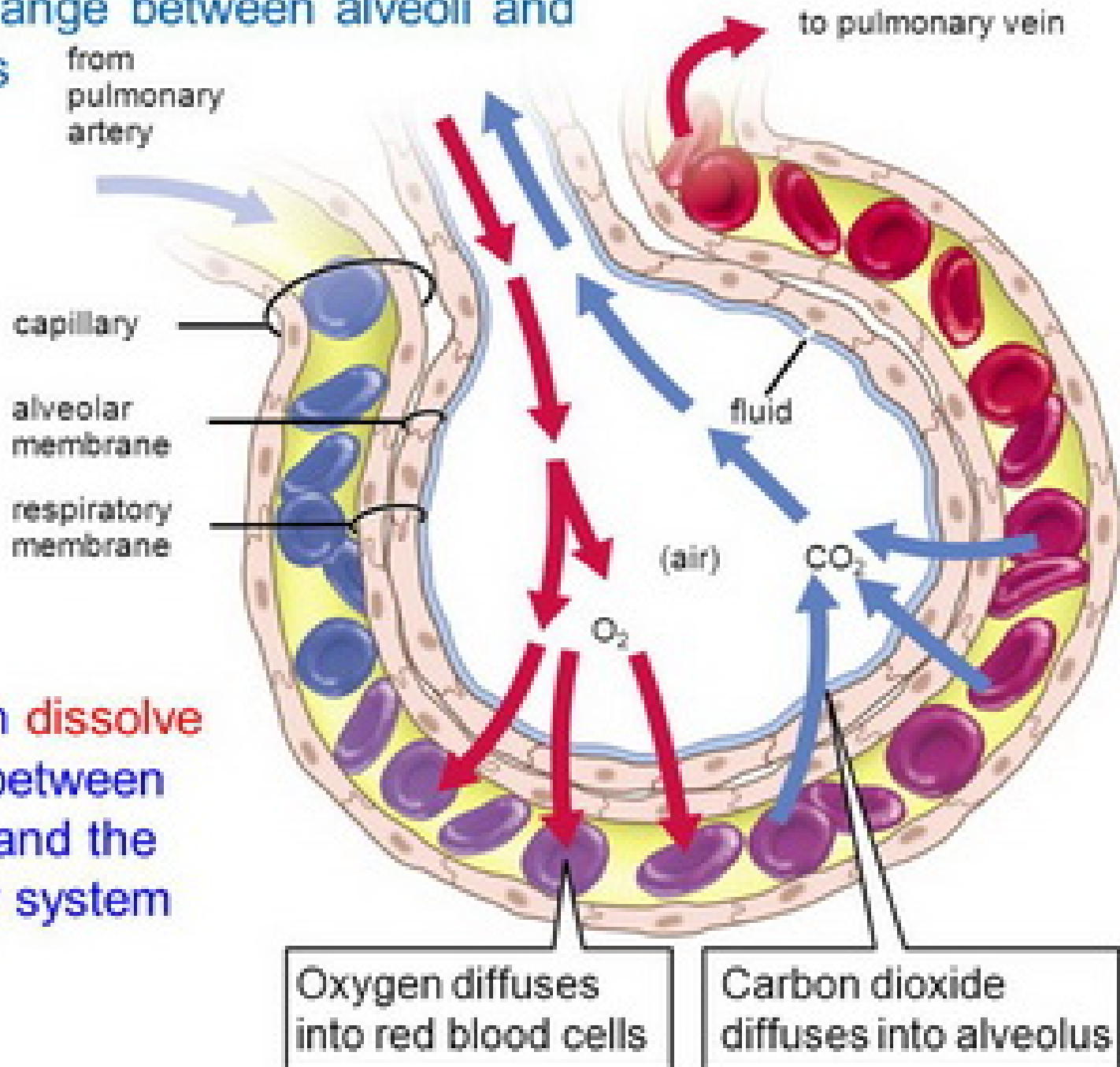
Lung Anatomy



600 Million Alveoli



Gas exchange between alveoli and capillaries



Gases can **dissolve** & **diffuse** between the lungs and the circulatory system

Oxygen diffuses into red blood cells

Carbon dioxide diffuses into alveolus

Alveolar Components

Pneumocytes

line the alveolar wall

Type 1 – long, thin, form the gas exchange surface

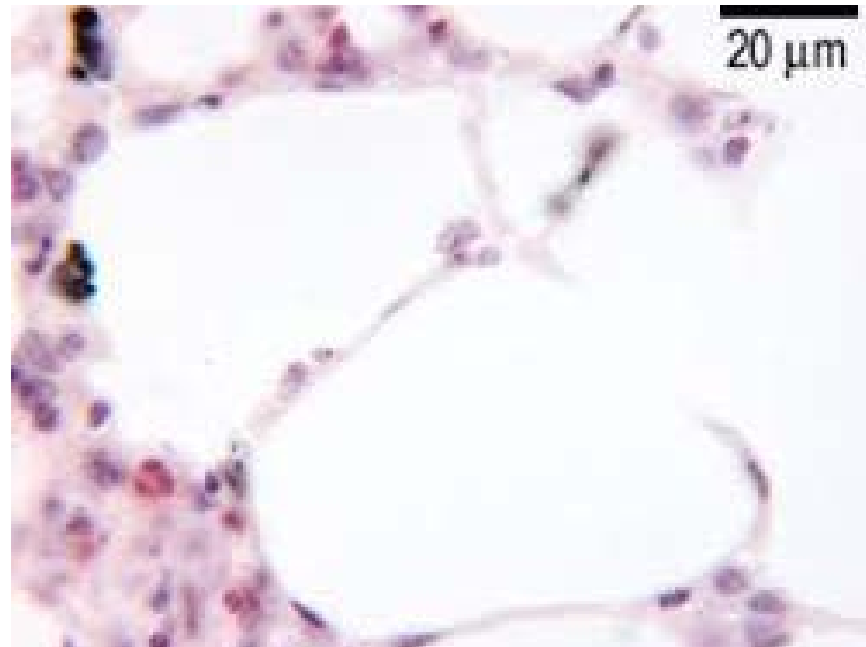
Type 2 – corner cells; make surfactant.

Endothelial Cells

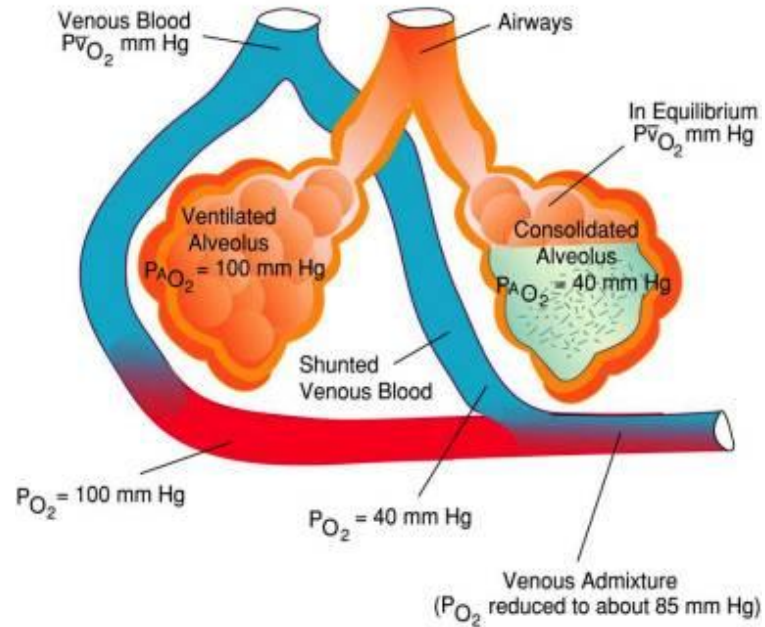
line the capillaries

regulate vascular tone – blood flow

Pneumocyte and ACE2



Physiology – V/Q= Ventilation/Perfusion



V/Q 2

Not all alveoli open – weight compression

Not all segments of lung perfused equally – zones based on gravity

Efficiency of Oxygenation – P/F ratio

PaO₂ – measured **arterial** oxygen level in blood

FIO₂ – administered amount of oxygen

pure oxygen = 100%; expressed as 1.0

room air = 21%; expressed as 0.21

Example – PaO₂ 100, FIO₂ 21% = P/F 476

PaO₂ 100, FIO₂ 40% = P/F 250

Lung Compliance

Work of Breathing

The stiffer the lung, the harder it is to breathe

Measurement = compliance = static conditions

Volume added to lung (ml); held; pressure generated (cm H₂O) measured

example: volume 800ml; static pressure 15; compliance 53

Classic Pneumonia

Pus and debris fill alveoli

Alveolus lacks air but is still perfused

Alveolar structure remains intact

Tends to be lobar - restricted

Bacterial Pneumonia

Bacteria **Multiply**

Settle in alveolus

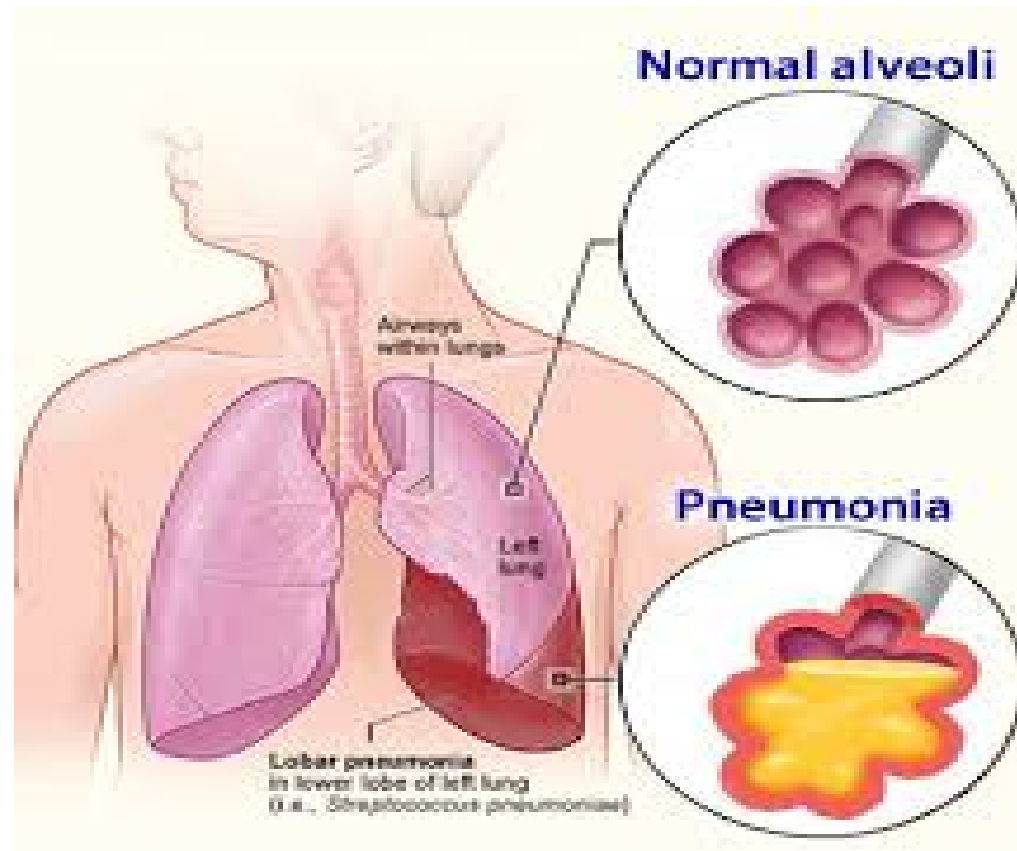
Inflammation

Body attacks to kill – WBCs = Pus

Death occurs from sepsis – spread to other organs



Pneumonia – Lobar, Bacterial



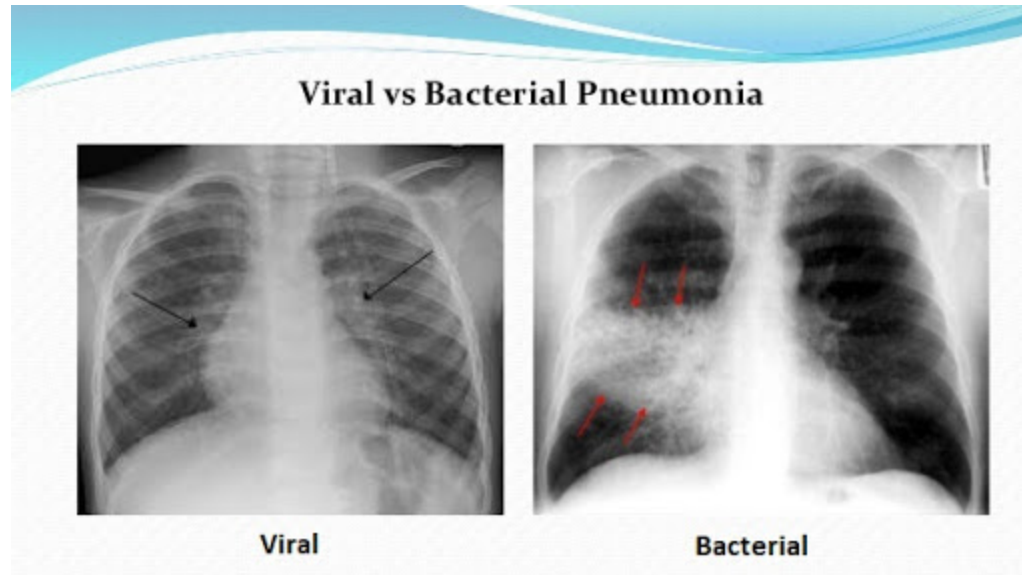
Viral Pneumonia

Virus **Replicates**

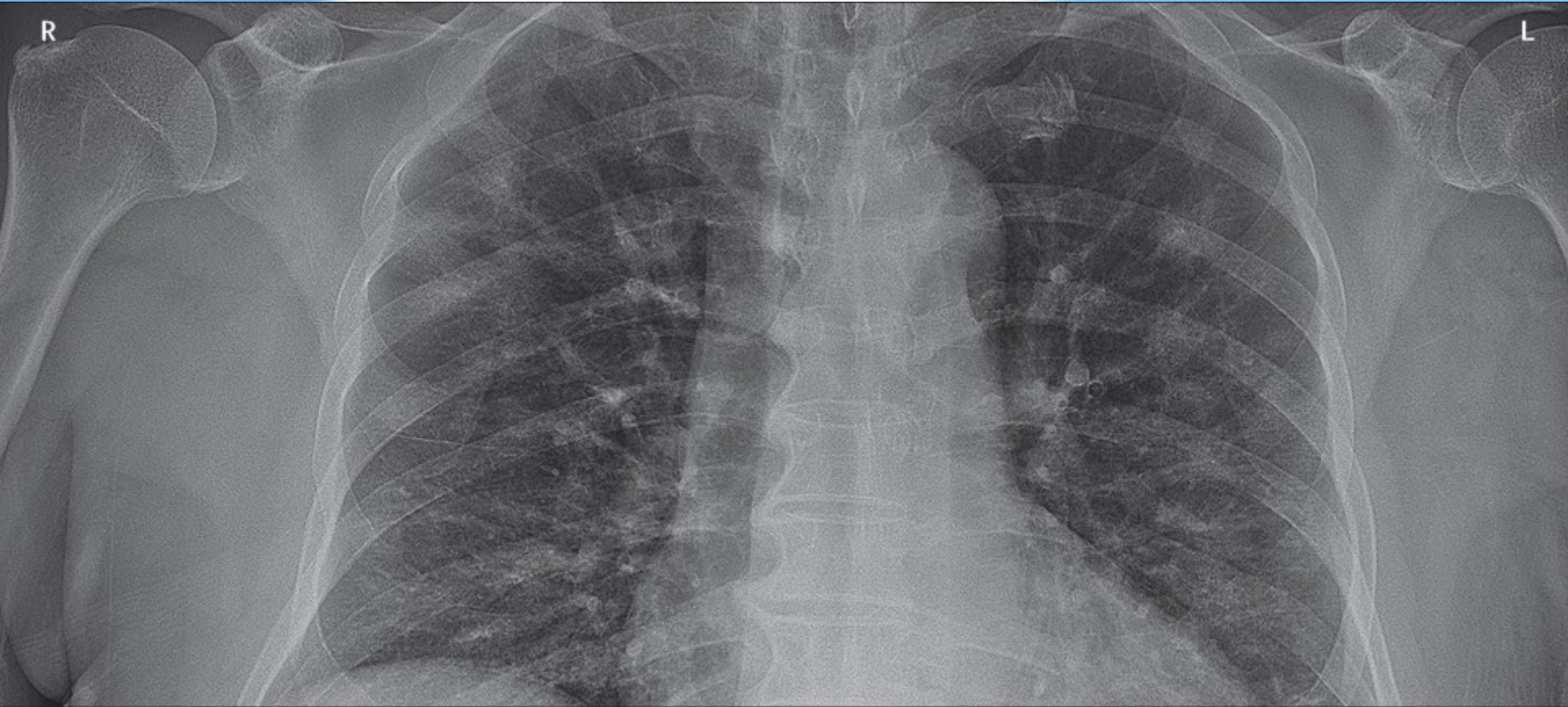
Usually settles on terminal bronchiole

If gets into alveolus – enters (ACE2 receptor) and replicate in and destroys pneumocyte.

Viral vs Bacterial



Typical Covid X-Ray



Covid-19

Attacks through the ACE2 receptor on the pneumocyte

Releases chemical inflammatory response

Death rate 49 times higher than the flu epidemics

Death rate: US – 4.9% England 14%

Ventilated patient mortality – 35%

DAD – Diffuse Alveolar Damage

Alveolar Pneumocytes attacked- inflammatory mediators released.

Pneumocyte necrosis and fibrosis

Hyaline membranes

Causes

Infection

Shock

Barotrauma – Ventilator; increased respiratory effort

ARDS – Adult Respiratory Distress Syndrome

Formally Shock Lung

Classically

Alveoli destroyed - Loss of Type 1 cell

Oxygen levels drop

Lung Volume drops (lungs shrink)

Lungs become stiff (decrease compliance)

Endothelial cell may become damage and release vasoactive substances

Berlin Concensus - 2011

ARDS defined only by P/F ratio - <300

Mild – 200-300 27% mortality

Moderate – 100-200 32% mortality

Severe - <100 45% mortality

Disease onset within 7 days of event

Bilateral opacities – not CHF

Ventilator

Not life support – a therapeutic tool

1961 – Pontappidin – first ventilator unit; criteria for ventilation

1994 –ARDSnet – MacIntyre – ventilator lung damage in ARDS

Low volume; Low pressure; passive hypercapnea

Traditional ARDS Ventilation Strategy

Low tidal volume – 6ml/kg

High PEEP

Maintain paO₂ 55-80

Plateau pressure <30

Respiratory rate 14-22 breath/min

Lung Protective Strategy

Challenge to Dogma

ER doctor's UTube plea – “we are doing something wrong”

[Bronowski quoting Oliver Cromwell

“I beseech you, in the bowel of Christ, think it possible you may be mistaken”]

Gattinoni March 24

Identified patients meeting criteria for ARDS

Profound hypoxemia with normal lung compliance!

Underwhelming X-Ray findings

Type L – Meets Berlin definition; may progress to Type H

ventilate as non ARDS – doesn't need recruitment

Type H classic ARDS

ventilate as ARDS

Difference from classic ARDS

Time to onset longer – 8 days

Sub population of disease (TypeL)

Very high incidence of thrombosis

Marked increase in pulmonary vascular deregulation – marked increase in “Q” in V/Q balance

Do we Cause damage

By failing to intubate early does that lead to more damage.

By ventilating Type L as ARDS (high PEEP) are we worsening lung function



HealthCare Partners, IPA
HealthCare Partners, MSO