

**National Coverage Determination**  
**Procedure Code: 82523**  
**Collagen Crosslinks, Any Method**  
**CMS Policy Number: 190.19**  
[Back to NCD List](#)

**Description:** Collagen crosslinks, part of the matrix of bone upon which bone mineral is deposited, are biochemical markers the excretion of which provides a quantitative measurement of bone resorption. Elevated levels of urinary collagen crosslinks indicate elevated bone resorption. Elevated bone resorption contributes to age-related and postmenopausal loss of bone leading to osteoporosis and increased risk of fracture. The collagen crosslinks assay can be performed by immunoassay or by high performance liquid chromatography (HPLC). Collagen crosslink immunoassays measure the pyridinoline crosslinks and associated telopeptides in urine.

Bone is constantly undergoing a metabolic process called turnover or remodeling. This includes a degradation process, bone resorption, mediated by the action of osteoclasts, and a building process, bone formation, mediated by the action of osteoblasts. Remodeling is required for the maintenance and overall health of bone and is tightly coupled; that is, resorption and formation must be in balance. In abnormal states of bone remodeling, when resorption exceeds formation, it results in a net loss of bone. The measurement of specific, bone-derived resorption products provides analytical data about the rate of bone resorption.

Osteoporosis is a condition characterized by low bone mass and structural deterioration of bone tissue, leading to bone fragility and an increased susceptibility to fractures of the hip, spine, and wrist. The term primary osteoporosis is applied where the causal factor in the disease is menopause or aging. The term secondary osteoporosis is applied where the causal factor is something other than menopause or aging, such as long-term administration of glucocorticosteroids, endocrine-related disorders (other than loss of estrogen due to menopause), and certain bone diseases such as cancer of the bone.

With respect to quantifying bone resorption, collagen crosslink tests can provide adjunct diagnostic information in concert with bone mass measurements. Bone mass measurements and biochemical markers may have complementary roles to play in assessing effectiveness of osteoporosis treatment. Proper management of osteoporosis patients, who are on long-term therapeutic regimens, may include laboratory testing of biochemical markers of bone turnover, such as collagen crosslinks, that provide a profile of bone turnover responses within weeks of therapy. Changes in collagen

crosslinks are determined following commencement of antiresorptive therapy. These can be measured over a shorter time interval when compared to bone mass density. If bone resorption is not elevated, repeat testing is not medically necessary.

**Indications:**

Generally speaking, collagen crosslink testing is useful mostly in “fast losers” of bone. The age when these bone markers can help direct therapy is often pre-Medicare. By the time a fast loser of bone reaches age 65, she will most likely have been stabilized by appropriate therapy or have lost so much bone mass that further testing is useless. Coverage for bone marker assays may be established, however, for younger Medicare beneficiaries and for those men and women who might become fast losers because of some other therapy such as glucocorticoids. Safeguards should be incorporated to prevent excessive use of tests in patients for whom they have no clinical relevance.

Collagen crosslinks testing is used to:

- Identify individuals with elevated bone resorption, who have osteoporosis in whom response to treatment is being monitored.
- Predict response (as assessed by bone mass measurements) to FDA approved antiresorptive therapy in postmenopausal women.
- Assess response to treatment of patients with osteoporosis, Paget’s disease of the bone, or risk for osteoporosis where treatment may include FDA approved antiresorptive agents, anti- estrogens or selective estrogen receptor moderators.

**Limitations:**

Because of significant specimen to specimen collagen crosslink physiologic variability (15-20%), current recommendations for appropriate utilization include: one or two base-line assays from specified urine collections on separate days; followed by a repeat assay about 3 months after starting anti-resorptive therapy; followed by a repeat assay in 12 months after the 3-month assay; and thereafter not more than annually, unless there is a change in therapy in which circumstance an additional test may be indicated 3 months after the initiation of new therapy.

Some collagen crosslink assays may not be appropriate for use in some disorders, according to FDA labeling restrictions.

**Frequency Limitations:** Current recommendations for appropriate utilization include: one or two base-line assays from specified urine collections on separate days; followed by a repeat assay about three months after starting anti-resorptive therapy; followed by a repeat assay in 12 months after the three-month assay; and thereafter

not more than annually, unless there is a change in therapy in which circumstance an additional test may be indicated three months after the initiation of new therapy.

---

To review all requirements of this policy, please see: [CMS NCD listing by Chapter](#)

### Covered ICD-10 Codes.

ICD-10	Descriptor
<a href="#">C44.1321</a>	Sebaceous cell carcinoma skin/ r upper eyelid, inc canthus
<a href="#">C44.1322</a>	Sebaceous cell carcinoma skin/ right low eyelid, inc canthus
<a href="#">C44.1391</a>	Sebaceous cell carcinoma skin/ left upr eyelid, inc canthus
<a href="#">C44.1392</a>	Sebaceous cell carcinoma skin/ left low eyelid, inc canthus
<a href="#">E05.00</a>	Thyrotoxicosis w diffuse goiter w/o thyrotoxic crisis
<a href="#">E05.01</a>	Thyrotoxicosis w diffuse goiter w thyrotoxic crisis or storm
<a href="#">E05.10</a>	Thyrotxcosis w toxic sing thyroid nodule w/o thyrotxc crisis
<a href="#">E05.11</a>	Thyrotxcosis w toxic single thyroid nodule w thyrotxc crisis
<a href="#">E05.20</a>	Thyrotxcosis w toxic multinod goiter w/o thyrotoxic crisis
<a href="#">E05.21</a>	Thyrotxcosis w toxic multinodular goiter w thyrotoxic crisis
<a href="#">E05.30</a>	Thyrotxcosis from ectopic thyroid tissue w/o thyrotxc crisis
<a href="#">E05.31</a>	Thyrotxcosis from ectopic thyroid tissue w thyrotoxic crisis
<a href="#">E05.40</a>	Thyrotoxicosis factitia without thyrotoxic crisis or storm
<a href="#">E05.41</a>	Thyrotoxicosis factitia with thyrotoxic crisis or storm
<a href="#">E05.80</a>	Other thyrotoxicosis without thyrotoxic crisis or storm
<a href="#">E05.81</a>	Other thyrotoxicosis with thyrotoxic crisis or storm
<a href="#">E05.90</a>	Thyrotoxicosis, unsp without thyrotoxic crisis or storm
<a href="#">E05.91</a>	Thyrotoxicosis, unspecified with thyrotoxic crisis or storm
<a href="#">E06.3</a>	Autoimmune thyroiditis
<a href="#">E07.9</a>	Disorder of thyroid, unspecified
<a href="#">E21.0</a>	Primary hyperparathyroidism
<a href="#">E21.1</a>	Secondary hyperparathyroidism, not elsewhere classified
<a href="#">E21.2</a>	Other hyperparathyroidism
<a href="#">E21.3</a>	Hyperparathyroidism, unspecified
<a href="#">E28.310</a>	Symptomatic premature menopause
<a href="#">E28.319</a>	Asymptomatic premature menopause
<a href="#">E28.39</a>	Other primary ovarian failure
<a href="#">E28.8</a>	Other ovarian dysfunction
<a href="#">E28.9</a>	Ovarian dysfunction, unspecified
<a href="#">E55.9</a>	Vitamin D deficiency, unspecified
<a href="#">E58</a>	Dietary calcium deficiency
<a href="#">E59</a>	Dietary selenium deficiency

<a href="#">E60</a>	Dietary zinc deficiency
<a href="#">E61.0</a>	Copper deficiency
<a href="#">E61.1</a>	Iron deficiency
<a href="#">E61.2</a>	Magnesium deficiency
<a href="#">E61.3</a>	Manganese deficiency
<a href="#">E61.4</a>	Chromium deficiency
<a href="#">E61.5</a>	Molybdenum deficiency
<a href="#">E61.6</a>	Vanadium deficiency
<a href="#">E88.02</a>	Plasminogen deficiency
<a href="#">E89.40</a>	Asymptomatic postprocedural ovarian failure
<a href="#">E89.41</a>	Symptomatic postprocedural ovarian failure
<a href="#">M48.50XA</a>	Collapsed vertebra, NEC, site unsp, init
<a href="#">M48.51XA</a>	Collapsed vertebra, NEC, occipito-atlanto-axial region, init
<a href="#">M48.52XA</a>	Collapsed vertebra, NEC, cervical region, init
<a href="#">M48.53XA</a>	Collapsed vertebra, NEC, cervicothoracic region, init
<a href="#">M48.54XA</a>	Collapsed vertebra, NEC, thoracic region, init
<a href="#">M48.55XA</a>	Collapsed vertebra, NEC, thoracolumbar region, init
<a href="#">M48.56XA</a>	Collapsed vertebra, NEC, lumbar region, init
<a href="#">M48.57XA</a>	Collapsed vertebra, NEC, lumbosacral region, init
<a href="#">M48.58XA</a>	Collapsed vertebra, NEC, sacr/sacrocygl region, init
<a href="#">M80.00XA</a>	Age-rel osteopor w current path fracture, unsp site, init
<a href="#">M80.011A</a>	Age-rel osteopor w current path fracture, r shoulder, init
<a href="#">M80.012A</a>	Age-rel osteopor w current path fracture, l shoulder, init
<a href="#">M80.019A</a>	Age-rel osteopor w current path fx, unsp shoulder, init
<a href="#">M80.021A</a>	Age-rel osteopor w current path fracture, r humerus, init
<a href="#">M80.022A</a>	Age-rel osteopor w current path fracture, l humerus, init
<a href="#">M80.029A</a>	Age-rel osteopor w current path fracture, unsp humerus, init
<a href="#">M80.031A</a>	Age-rel osteopor w current path fracture, r forearm, init
<a href="#">M80.032A</a>	Age-rel osteopor w current path fracture, l forearm, init
<a href="#">M80.039A</a>	Age-rel osteopor w current path fracture, unsp forearm, init
<a href="#">M80.041A</a>	Age-rel osteopor w current path fracture, right hand, init
<a href="#">M80.042A</a>	Age-rel osteopor w current path fracture, left hand, init
<a href="#">M80.049A</a>	Age-rel osteopor w current path fracture, unsp hand, init
<a href="#">M80.051A</a>	Age-rel osteopor w current path fracture, right femur, init
<a href="#">M80.052A</a>	Age-rel osteopor w current path fracture, left femur, init
<a href="#">M80.059A</a>	Age-rel osteopor w current path fracture, unsp femur, init
<a href="#">M80.061A</a>	Age-rel osteopor w current path fracture, r low leg, init
<a href="#">M80.062A</a>	Age-rel osteopor w current path fracture, l low leg, init
<a href="#">M80.069A</a>	Age-rel osteopor w current path fracture, unsp low leg, init
<a href="#">M80.071A</a>	Age-rel osteopor w current path fracture, right ank/ft, init
<a href="#">M80.072A</a>	Age-rel osteopor w current path fracture, left ank/ft, init
<a href="#">M80.079A</a>	Age-rel osteopor w current path fracture, unsp ank/ft, init

<a href="#">M80.08XA</a>	Age-rel osteopor w current path fracture, vertebra(e), init
<a href="#">M80.80XA</a>	Oth osteopor w current path fracture, unsp site, init
<a href="#">M80.811A</a>	Oth osteopor w current path fracture, r shoulder, init
<a href="#">M80.812A</a>	Oth osteopor w current path fracture, l shoulder, init
<a href="#">M80.819A</a>	Oth osteopor w current path fracture, unsp shoulder, init
<a href="#">M80.821A</a>	Oth osteopor w current path fracture, r humerus, init
<a href="#">M80.822A</a>	Oth osteopor w current path fracture, l humerus, init
<a href="#">M80.829A</a>	Oth osteopor w current path fracture, unsp humerus, init
<a href="#">M80.831A</a>	Oth osteopor w current path fracture, r forearm, init
<a href="#">M80.832A</a>	Oth osteopor w current path fracture, l forearm, init
<a href="#">M80.839A</a>	Oth osteopor w current path fracture, unsp forearm, init
<a href="#">M80.841A</a>	Oth osteopor w current path fracture, right hand, init
<a href="#">M80.842A</a>	Oth osteopor w current path fracture, left hand, init
<a href="#">M80.849A</a>	Oth osteopor w current path fracture, unsp hand, init
<a href="#">M80.851A</a>	Oth osteopor w current path fracture, right femur, init
<a href="#">M80.852A</a>	Oth osteopor w current path fracture, left femur, init
<a href="#">M80.859A</a>	Oth osteopor w current path fracture, unsp femur, init
<a href="#">M80.861A</a>	Oth osteopor w current path fracture, r low leg, init
<a href="#">M80.862A</a>	Oth osteopor w current path fracture, l low leg, init
<a href="#">M80.869A</a>	Oth osteopor w current path fracture, unsp lower leg, init
<a href="#">M80.871A</a>	Oth osteopor w current path fracture, right ank/ft, init
<a href="#">M80.872A</a>	Oth osteopor w current path fracture, left ank/ft, init
<a href="#">M80.879A</a>	Oth osteopor w current path fracture, unsp ank/ft, init
<a href="#">M80.88XA</a>	Oth osteopor w current path fracture, vertebra(e), init
<a href="#">M81.0</a>	Age-related osteoporosis w/o current pathological fracture
<a href="#">M81.6</a>	Localized osteoporosis [Lequesne]
<a href="#">M81.8</a>	Other osteoporosis without current pathological fracture
<a href="#">M84.40XA</a>	Pathological fracture, unsp site, init encntr for fracture
<a href="#">M84.411A</a>	Pathological fracture, right shoulder, init for fx
<a href="#">M84.412A</a>	Pathological fracture, left shoulder, init for fx
<a href="#">M84.419A</a>	Pathological fracture, unsp shoulder, init for fx
<a href="#">M84.421A</a>	Pathological fracture, right humerus, init for fx
<a href="#">M84.422A</a>	Pathological fracture, left humerus, init for fx
<a href="#">M84.429A</a>	Pathological fracture, unsp humerus, init for fx
<a href="#">M84.431A</a>	Pathological fracture, right ulna, init encntr for fracture
<a href="#">M84.432A</a>	Pathological fracture, left ulna, init encntr for fracture
<a href="#">M84.433A</a>	Pathological fracture, right radius, init for fx
<a href="#">M84.434A</a>	Pathological fracture, left radius, init encntr for fracture
<a href="#">M84.439A</a>	Pathological fracture, unsp ulna and radius, init for fx
<a href="#">M84.441A</a>	Pathological fracture, right hand, init encntr for fracture
<a href="#">M84.442A</a>	Pathological fracture, left hand, init encntr for fracture
<a href="#">M84.443A</a>	Pathological fracture, unsp hand, init encntr for fracture

<a href="#">M84.444A</a>	Pathological fracture, right finger(s), init for fx
<a href="#">M84.445A</a>	Pathological fracture, left finger(s), init for fx
<a href="#">M84.446A</a>	Pathological fracture, unsp finger(s), init for fx
<a href="#">M84.451A</a>	Pathological fracture, right femur, init encntr for fracture
<a href="#">M84.452A</a>	Pathological fracture, left femur, init encntr for fracture
<a href="#">M84.453A</a>	Pathological fracture, unsp femur, init encntr for fracture
<a href="#">M84.454A</a>	Pathological fracture, pelvis, init encntr for fracture
<a href="#">M84.459A</a>	Pathological fracture, hip, unsp, init encntr for fracture
<a href="#">M84.461A</a>	Pathological fracture, right tibia, init encntr for fracture
<a href="#">M84.462A</a>	Pathological fracture, left tibia, init encntr for fracture
<a href="#">M84.463A</a>	Pathological fracture, right fibula, init for fx
<a href="#">M84.464A</a>	Pathological fracture, left fibula, init encntr for fracture
<a href="#">M84.469A</a>	Pathological fracture, unsp tibia and fibula, init for fx
<a href="#">M84.471A</a>	Pathological fracture, right ankle, init encntr for fracture
<a href="#">M84.472A</a>	Pathological fracture, left ankle, init encntr for fracture
<a href="#">M84.473A</a>	Pathological fracture, unsp ankle, init encntr for fracture
<a href="#">M84.474A</a>	Pathological fracture, right foot, init encntr for fracture
<a href="#">M84.475A</a>	Pathological fracture, left foot, init encntr for fracture
<a href="#">M84.476A</a>	Pathological fracture, unsp foot, init encntr for fracture
<a href="#">M84.477A</a>	Pathological fracture, right toe(s), init for fx
<a href="#">M84.478A</a>	Pathological fracture, left toe(s), init encntr for fracture
<a href="#">M84.479A</a>	Pathological fracture, unsp toe(s), init encntr for fracture
<a href="#">M84.48XA</a>	Pathological fracture, other site, init encntr for fracture
<a href="#">M84.50XA</a>	Pathological fracture in neoplastic disease, unsp site, init
<a href="#">M84.511A</a>	Path fracture in neoplastic disease, r shoulder, init
<a href="#">M84.512A</a>	Path fracture in neoplastic disease, l shoulder, init
<a href="#">M84.519A</a>	Path fracture in neoplastic disease, unsp shoulder, init
<a href="#">M84.521A</a>	Pathological fracture in neoplastic disease, r humerus, init
<a href="#">M84.522A</a>	Pathological fracture in neoplastic disease, l humerus, init
<a href="#">M84.529A</a>	Path fracture in neoplastic disease, unsp humerus, init
<a href="#">M84.531A</a>	Path fracture in neoplastic disease, right ulna, init
<a href="#">M84.532A</a>	Pathological fracture in neoplastic disease, left ulna, init
<a href="#">M84.533A</a>	Path fracture in neoplastic disease, right radius, init
<a href="#">M84.534A</a>	Path fracture in neoplastic disease, left radius, init
<a href="#">M84.539A</a>	Path fracture in neopltc disease, unsp ulna and radius, init
<a href="#">M84.541A</a>	Path fracture in neoplastic disease, right hand, init
<a href="#">M84.542A</a>	Pathological fracture in neoplastic disease, left hand, init
<a href="#">M84.549A</a>	Pathological fracture in neoplastic disease, unsp hand, init
<a href="#">M84.550A</a>	Pathological fracture in neoplastic disease, pelvis, init
<a href="#">M84.551A</a>	Path fracture in neoplastic disease, right femur, init
<a href="#">M84.552A</a>	Path fracture in neoplastic disease, left femur, init
<a href="#">M84.553A</a>	Path fracture in neoplastic disease, unsp femur, init

<a href="#">M84.559A</a>	Pathological fracture in neoplastic disease, hip, unsp, init
<a href="#">M84.561A</a>	Path fracture in neoplastic disease, right tibia, init
<a href="#">M84.562A</a>	Path fracture in neoplastic disease, left tibia, init
<a href="#">M84.563A</a>	Path fracture in neoplastic disease, right fibula, init
<a href="#">M84.564A</a>	Path fracture in neoplastic disease, left fibula, init
<a href="#">M84.569A</a>	Path fx in neopltc disease, unsp tibia and fibula, init
<a href="#">M84.571A</a>	Path fracture in neoplastic disease, right ankle, init
<a href="#">M84.572A</a>	Path fracture in neoplastic disease, left ankle, init
<a href="#">M84.573A</a>	Path fracture in neoplastic disease, unsp ankle, init
<a href="#">M84.574A</a>	Path fracture in neoplastic disease, right foot, init
<a href="#">M84.575A</a>	Pathological fracture in neoplastic disease, left foot, init
<a href="#">M84.576A</a>	Pathological fracture in neoplastic disease, unsp foot, init
<a href="#">M84.58XA</a>	Pathological fracture in neoplastic disease, oth site, init
<a href="#">M84.60XA</a>	Pathological fracture in oth disease, unsp site, init for fx
<a href="#">M84.611A</a>	Pathological fracture in oth disease, right shoulder, init
<a href="#">M84.612A</a>	Pathological fracture in oth disease, left shoulder, init
<a href="#">M84.619A</a>	Pathological fracture in oth disease, unsp shoulder, init
<a href="#">M84.621A</a>	Pathological fracture in oth disease, right humerus, init
<a href="#">M84.622A</a>	Pathological fracture in oth disease, left humerus, init
<a href="#">M84.629A</a>	Pathological fracture in oth disease, unsp humerus, init
<a href="#">M84.631A</a>	Pathological fracture in oth disease, right ulna, init
<a href="#">M84.632A</a>	Pathological fracture in oth disease, left ulna, init for fx
<a href="#">M84.633A</a>	Pathological fracture in oth disease, right radius, init
<a href="#">M84.634A</a>	Pathological fracture in oth disease, left radius, init
<a href="#">M84.639A</a>	Path fracture in oth disease, unsp ulna and radius, init
<a href="#">M84.641A</a>	Pathological fracture in oth disease, right hand, init
<a href="#">M84.642A</a>	Pathological fracture in oth disease, left hand, init for fx
<a href="#">M84.649A</a>	Pathological fracture in oth disease, unsp hand, init for fx
<a href="#">M84.650A</a>	Pathological fracture in oth disease, pelvis, init for fx
<a href="#">M84.651A</a>	Pathological fracture in oth disease, right femur, init
<a href="#">M84.652A</a>	Pathological fracture in oth disease, left femur, init
<a href="#">M84.653A</a>	Pathological fracture in oth disease, unsp femur, init
<a href="#">M84.659A</a>	Pathological fracture in oth disease, hip, unsp, init for fx
<a href="#">M84.661A</a>	Pathological fracture in oth disease, right tibia, init
<a href="#">M84.662A</a>	Pathological fracture in oth disease, left tibia, init
<a href="#">M84.663A</a>	Pathological fracture in oth disease, right fibula, init
<a href="#">M84.664A</a>	Pathological fracture in oth disease, left fibula, init
<a href="#">M84.669A</a>	Path fracture in oth disease, unsp tibia and fibula, init
<a href="#">M84.671A</a>	Pathological fracture in oth disease, right ankle, init
<a href="#">M84.672A</a>	Pathological fracture in oth disease, left ankle, init
<a href="#">M84.673A</a>	Pathological fracture in oth disease, unsp ankle, init
<a href="#">M84.674A</a>	Pathological fracture in oth disease, right foot, init

<a href="#">M84.675A</a>	Pathological fracture in oth disease, left foot, init for fx
<a href="#">M84.676A</a>	Pathological fracture in oth disease, unsp foot, init for fx
<a href="#">M84.68XA</a>	Pathological fracture in oth disease, oth site, init for fx
<a href="#">M84.751A</a>	Incomplete atypical femoral fracture, right leg, init
<a href="#">M85.80</a>	Oth disrd of bone density and structure, unspecified site
<a href="#">M85.811</a>	Oth disrd of bone density and structure, right shoulder
<a href="#">M85.812</a>	Oth disrd of bone density and structure, left shoulder
<a href="#">M85.819</a>	Oth disrd of bone density and structure, unsp shoulder
<a href="#">M85.821</a>	Oth disrd of bone density and structure, right upper arm
<a href="#">M85.822</a>	Oth disrd of bone density and structure, left upper arm
<a href="#">M85.829</a>	Oth disrd of bone density and structure, unsp upper arm
<a href="#">M85.831</a>	Oth disrd of bone density and structure, right forearm
<a href="#">M85.832</a>	Oth disrd of bone density and structure, left forearm
<a href="#">M85.839</a>	Oth disrd of bone density and structure, unspecified forearm
<a href="#">M85.841</a>	Oth disrd of bone density and structure, right hand
<a href="#">M85.842</a>	Oth disrd of bone density and structure, left hand
<a href="#">M85.849</a>	Oth disrd of bone density and structure, unspecified hand
<a href="#">M85.851</a>	Oth disrd of bone density and structure, right thigh
<a href="#">M85.852</a>	Oth disrd of bone density and structure, left thigh
<a href="#">M85.859</a>	Oth disrd of bone density and structure, unspecified thigh
<a href="#">M85.861</a>	Oth disrd of bone density and structure, right lower leg
<a href="#">M85.862</a>	Oth disrd of bone density and structure, left lower leg
<a href="#">M85.869</a>	Oth disrd of bone density and structure, unsp lower leg
<a href="#">M85.871</a>	Oth disrd of bone density and structure, right ank/ft
<a href="#">M85.872</a>	Oth disrd of bone density and structure, left ankle and foot
<a href="#">M85.879</a>	Oth disrd of bone density and structure, unsp ankle and foot
<a href="#">M85.88</a>	Oth disrd of bone density and structure, other site
<a href="#">M85.89</a>	Oth disrd of bone density and structure, multiple sites
<a href="#">M85.9</a>	Disorder of bone density and structure, unspecified
<a href="#">M88.0</a>	Osteitis deformans of skull
<a href="#">M88.1</a>	Osteitis deformans of vertebrae
<a href="#">M88.811</a>	Osteitis deformans of right shoulder
<a href="#">M88.812</a>	Osteitis deformans of left shoulder
<a href="#">M88.819</a>	Osteitis deformans of unspecified shoulder
<a href="#">M88.821</a>	Osteitis deformans of right upper arm
<a href="#">M88.822</a>	Osteitis deformans of left upper arm
<a href="#">M88.829</a>	Osteitis deformans of unspecified upper arm
<a href="#">M88.831</a>	Osteitis deformans of right forearm
<a href="#">M88.832</a>	Osteitis deformans of left forearm
<a href="#">M88.839</a>	Osteitis deformans of unspecified forearm
<a href="#">M88.841</a>	Osteitis deformans of right hand
<a href="#">M88.842</a>	Osteitis deformans of left hand



<a href="#">M88.849</a>	Osteitis deformans of unspecified hand
<a href="#">M88.851</a>	Osteitis deformans of right thigh
<a href="#">M88.852</a>	Osteitis deformans of left thigh
<a href="#">M88.859</a>	Osteitis deformans of unspecified thigh
<a href="#">M88.861</a>	Osteitis deformans of right lower leg
<a href="#">M88.862</a>	Osteitis deformans of left lower leg
<a href="#">M88.869</a>	Osteitis deformans of unspecified lower leg
<a href="#">M88.871</a>	Osteitis deformans of right ankle and foot
<a href="#">M88.872</a>	Osteitis deformans of left ankle and foot
<a href="#">M88.879</a>	Osteitis deformans of unspecified ankle and foot
<a href="#">M88.88</a>	Osteitis deformans of other bones
<a href="#">M88.89</a>	Osteitis deformans of multiple sites
<a href="#">M88.9</a>	Osteitis deformans of unspecified bone
<a href="#">M89.9</a>	Disorder of bone, unspecified
<a href="#">M94.9</a>	Disorder of cartilage, unspecified
<a href="#">N92.4</a>	Excessive bleeding in the premenopausal period
<a href="#">N95.0</a>	Postmenopausal bleeding
<a href="#">N95.1</a>	Menopausal and female climacteric states
<a href="#">N95.8</a>	Other specified menopausal and perimenopausal disorders
<a href="#">N95.9</a>	Unspecified menopausal and perimenopausal disorder
<a href="#">P78.84</a>	Gestational alloimmune liver disease
<a href="#">S12.9XXA</a>	Fracture of neck, unspecified, initial encounter
<a href="#">Z79.3</a>	Long term (current) use of hormonal contraceptives
<a href="#">Z79.51</a>	Long term (current) use of inhaled steroids
<a href="#">Z79.52</a>	Long term (current) use of systemic steroids
<a href="#">Z79.84</a>	Long term (current) use of oral hypoglycemic drugs
<a href="#">Z79.891</a>	Long term (current) use of opiate analgesic
<a href="#">Z79.899</a>	Other long term (current) drug therapy