

Assays for Vitamins and Metabolic Function

CPT: 82306, 82652, 82379, 82607, 82746, 83090, 84207, 85385, 86352, 83698

CMS Policy for Delaware, Maryland, New Jersey, Pennsylvania, Virginia (Suburbs), and Washington, D.C.

Local policies are determined by the performing test location. This is determined by the state in which your performing laboratory resides and where your testing is commonly performed.

Medically Supportive ICD Codes are listed on subsequent page(s) of this document.

Coverage Indications, Limitations, and/or Medical Necessity

Notice: It is not appropriate to bill Medicare for services that are not covered (as described by this entire LCD) as if they are covered. When billing for non-covered services, use the appropriate modifier.

Compliance with the provisions in this policy may be monitored and addressed through post payment data analysis and subsequent medical review audits.

Medicare generally considers vitamin assay panels (more than one vitamin assay) a screening procedure and therefore, non-covered. Similarly, assays for micronutrient testing for nutritional deficiencies that include multiple tests for vitamins, minerals, antioxidants and various metabolic functions are never necessary. Medicare reimburses for covered clinical laboratory studies that are reasonable and necessary for the diagnosis or treatment of an illness. Many vitamin deficiency problems can be determined from a comprehensive history and physical examination. Any diagnostic evaluation should be targeted at the specific vitamin deficiency suspected and not a general screen. Most vitamin deficiencies are nutritional in origin and may be corrected with supplemented vitamins.

Most vitamin deficiencies are suggested by specific clinical findings. The presence of those specific clinical findings may prompt laboratory testing for evidence of a deficiency of that specific vitamin. Certain other clinical states may also lead to vitamin deficiencies (malabsorption syndromes, etc.).

Limitations

For Medicare beneficiaries, screening tests are governed by statute. Vitamin or micronutrient testing may not be used for routine screening. Once a beneficiary has been shown to be vitamin deficient, further testing is medically necessary only to ensure adequate replacement has been accomplished. Thereafter, annual testing may be appropriate depending upon the indication and other mitigating factors.

The following tests are considered non-covered services:

- Assays of selenium (84255)
- Functional intracellular analysis (84999)
- Total antioxidant function (84999)
- Assays of vitamin testing, not otherwise classified* (84591)

*Note: Assays of vitamin testing, not otherwise classified (84591) is not covered since all clinically relevant vitamins have specific assays.

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CMS Policy for Delaware, Maryland, New Jersey, Pennsylvania, Virginia (Suburbs), and Washington, D.C. (continued)

Notice: This LCD imposes the following limitations to the tests addressed in this LCD. These limitations will support automated denials as follows:

- Noncovered as described above (84255, 84999, 84591)
- Diagnosis to procedure limitations only (86352)
- Frequency limitations* only (82180, 84252, 84425, 84446, 84590, 84597)
- Diagnosis to procedure and frequency limitations* (82306, 82652, 82379, 82607, 82746, 83090, 84207, 85385, 83698)

*Note: Please refer to the "Utilization Guidelines" section for an outline of the frequency limitations. Frequency limitations do not establish medical necessity for all testing but does reflect how the medical community uses the tests. Patterns of billing will be monitored for potential utilization of these tests for screening purposes, either by use of a single test or multiple tests together.

Notice: This LCD imposes diagnosis limitations that support diagnosis to procedure code automated denials. However, services performed for any given diagnosis must meet all of the indications and limitations stated in this policy, the general requirements for medical necessity as stated in CMS payment policy manuals, any and all existing CMS national coverage determinations, and all Medicare payment rules.

As published in CMS IOM 100-08, Chapter 13, Section 13.5.1, in order to be covered under Medicare, a service shall be reasonable and necessary. When appropriate, contractors shall describe the circumstances under which the proposed LCD for the service is considered reasonable and necessary under Section 1862(a)(1)(A). Contractors shall consider a service to be reasonable and necessary if the contractor determines that the service is:

- Safe and effective.
- Not experimental or investigational (exception: routine costs of qualifying clinical trial services with dates of service on or after September 19, 2000 that meet the requirements of the Clinical Trials NCD are considered reasonable and necessary).
- Appropriate, including the duration and frequency that is considered appropriate for the service, in terms of whether it is:
 - Furnished in accordance with accepted standards of medical practice for the diagnosis or treatment of the patient's condition or to improve the function of a malformed body member.
 - Furnished in a setting appropriate to the patient's medical needs and condition.
 - Ordered and furnished by qualified personnel.
 - One that meets, but does not exceed, the patient's medical needs.
 - At least as beneficial as an existing and available medically appropriate alternative.

Utilization Guidelines

In accordance with CMS Ruling 95-1 (V), utilization of these services should be consistent with locally acceptable standards of practice. Medicare recognizes certain tests may exceed the stated frequencies. Should a denial occur, additional documentation can be submitted to support medical necessity. Payment for additional tests may be allowed in selected circumstances when, upon medical review, the medical necessity of additional services is demonstrated.

Following a review of utilization data at various percentiles of units billed per year, the following frequency limitations are established and are as follows:

- 82306 up to 3 times per year
- 82652 up to 2 times per year

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Assays for Vitamins and Metabolic Function

Vitamin D 25 Hydroxy and Vitamin D 1 25 Dihydroxy

CPT: 82306, 82652

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The ICD10 codes listed below are the top diagnosis codes currently utilized by ordering physicians for the limited coverage test highlighted above that are also listed as medically supportive under Medicare's limited coverage policy. **If you are ordering this test for diagnostic reasons that are not covered under Medicare policy, an Advance Beneficiary Notice form is required.**

***Note—Bolded diagnoses below have the highest utilization**

Code	Description
E55.9	Vitamin D deficiency, unspecified
E21.0	Primary hyperparathyroidism
E21.3	Hyperparathyroidism, unspecified
E83.51	Hypocalcemia
E83.52	Hypercalcemia
K90.0	Celiac disease
K90.9	Intestinal malabsorption, unspecified
M32.9	Systemic lupus erythematosus, unspecified
M81.0	Age-related osteoporosis w/o current pathological fracture
M81.8	Other osteoporosis without current pathological fracture
M85.80	Oth disrd of bone density and structure, unspecified site
M85.9	Disorder of bone density and structure, unspecified
M89.9	Disorder of bone, unspecified
N18.30	Chronic kidney disease, stage 3 unspecified
N18.31	Chronic kidney disease, stage 3a
N18.32	Chronic kidney disease, stage 3b
N18.4	Chronic kidney disease, stage 4 (severe)
N25.81	Secondary hyperparathyroidism of renal origin
Z79.891	Long term (current) use of opiate analgesic
Z79.899	Other long term (current) drug therapy

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Last updated: 11/3/23

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Assays for Vitamins and Metabolic Function

Vitamin B-12, Assay of Folic Acid Serum and Assay of Homocystine

CPT: 82607, 82746, 83090

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Code	Description
D51.0	Vitamin B12 defic anemia due to intrinsic factor deficiency
D51.1	Vit B12 defic anemia d/t slctv vit B12 malabsorp w protein
D51.3	Other dietary vitamin B12 deficiency anemia
D51.8	Other vitamin B12 deficiency anemias
D51.9	Vitamin B12 deficiency anemia, unspecified
D52.0	Dietary folate deficiency anemia
D52.9	Folate deficiency anemia, unspecified
D53.1	Other megaloblastic anemias, not elsewhere classified
D53.9	Nutritional anemia, unspecified
D69.6	Thrombocytopenia, unspecified
E53.8	Deficiency of other specified B group vitamins
E72.11	Homocystinuria
G60.9	Hereditary and idiopathic neuropathy, unspecified
K90.0	Celiac disease
K90.9	Intestinal malabsorption, unspecified
R20.0	Anesthesia of skin
R20.2	Paresthesia of skin
R41.3	Other amnesia
Z79.891	Long term (current) use of opiate analgesic
Z79.899	Other long term (current) drug therapy

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Assays for Vitamins and Metabolic Function

Assay of Carnitine

CPT: 82379

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Code	Description
D63.1	Anemia in chronic kidney disease
E71.40	Disorder of carnitine metabolism, unspecified
E71.41	Primary carnitine deficiency
E71.42	Carnitine deficiency due to inborn errors of metabolism
E71.43	Iatrogenic carnitine deficiency
E71.440	Ruvalcaba-Myhre-Smith syndrome
E71.448	Other secondary carnitine deficiency
I95.3	Hypotension of hemodialysis

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Assays for Vitamins and Metabolic Function

Assay of Vitamin B-6

CPT: 84207

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Code	Description
D64.0	Hereditary sideroblastic anemia
D64.1	Secondary sideroblastic anemia due to disease
D64.2	Secondary sideroblastic anemia due to drugs and toxins
D64.3	Other sideroblastic anemias
E53.1	Pyridoxine deficiency
E67.2	Megavitamin-B6 syndrome
E83.39	Other disorders of phosphorus metabolism
G25.70	Drug induced movement disorder, unspecified
G25.71	Drug induced akathisia
G25.79	Other drug induced movement disorders
G25.89	Other specified extrapyramidal and movement disorders
G25.9	Extrapyramidal and movement disorder, unspecified
G26	Extrapyramidal and movement disorders in diseases classified elsewhere
G60.9	Hereditary and idiopathic neuropathy, unspecified
K14.0	Glossitis
R74.8	Abnormal levels of other serum enzymes

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Assays for Vitamins and Metabolic Function

Fibrinogen antigen

CPT: 85385

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Code	Description
D47.3	Essential (hemorrhagic) thrombocythemia
D65	Disseminated intravascular coagulation [defibrination syndrome]
D68.2	Hereditary deficiency of other clotting factors
D68.32	Hemorrhagic disorder due to extrinsic circulating anticoagulants
D68.4	Acquired coagulation factor deficiency
D69.3	Immune thrombocytopenic purpura
D69.41	Evans syndrome
D69.42	Congenital and hereditary thrombocytopenia purpura
D69.49	Other primary thrombocytopenia
D69.51	Posttransfusion purpura
D69.59	Other secondary thrombocytopenia
D69.6	Thrombocytopenia, unspecified
R79.1	Abnormal coagulation profile

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Assays for Vitamins and Metabolic Function

Cell function assay w/stim

CPT: 86352

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Code	Description
T86.298	Other complications of heart transplant
Z94.1	Heart transplant status

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Assays for Vitamins and Metabolic Function

Assay lipoprotein pla2

CPT: 83698

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Code	Description
E11.65	Type 2 diabetes mellitus with hyperglycemia
E11.9	Type 2 diabetes mellitus without complications
E13.9	Other specified diabetes mellitus without complications
E78.00	Pure hypercholesterolemia, unspecified
E78.01	Familial hypercholesterolemia
E78.1	Pure hyperglyceridemia
E78.2	Mixed hyperlipidemia
E78.3	Hyperchylomicronemia
E78.49	Other hyperlipidemia
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris

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