Vitamin D Screening Recommendations

Purpose
To provide guidance regarding population-based screening for vitamin D deficiency.

Key Messages
• Do not screen for vitamin D deficiency in healthy adults or children. Consistent with the recommendation of the American Society of Clinical Pathology as part of the Choosing Wisely Program, the New York State Department of Health has informed NY State Health Plans that population based screening (routine screening of otherwise healthy adults and children) for 25-OHvitamin D Deficiency should not be performed and that such screening should not be reimbursed under Medicaid.
• Nearly all Americans and Canadians obtain sufficient vitamin D from their diet.
• On a case-by-case basis, consider selective testing for vitamin D deficiency in high-risk individuals such as patients with malabsorption syndromes or osteoporosis and elderly (i.e. institutionalized) and infants with low sunlight exposure.
• Individuals at high risk for deficiency (eg, older homebound or institutionalized individuals, those with limited sun exposure, obesity, dark skin, osteoporosis, malabsorption) supplementation e.g. 800 units D3/day might be considered case-by-case based on expert opinion.
• Vitamin D supplementation may reduce the incidence and severity of respiratory infections. Testing of Vitamin D level is not necessary and not indicated before beginning such supplementation.

Overview
Numerous observational studies have shown a correlation between vitamin D and bone health, cardiovascular disease, cancer, diabetes, immune function, renal disease and stroke. Randomized controlled studies have shown that vitamin D is important for bone health, but they have not established causal relationship between vitamin D and other health outcomes, including mental health.

The Institute of Medicine (IOM), US Preventive Services Task Force (USPSTF) and the American Society of Clinical Pathology as part of the Choosing Wisely ® campaign do not recommend screening for vitamin D deficiency in healthy individuals.

Establishing the cut point for the diagnosis of vitamin D deficiency is controversial because of the lack of standardization among assays and because some groups of patients, e.g. obese and African Americans, tend to have low levels of 25-Hydroxyvitamin D but have lower risk of fracture than the general population. This may be due to increased bioavailable vitamin D for which there is not currently commercially available testing. Lack of a cut point that is clear and consistent across labs has resulted in over diagnosis and encouraged excessive vitamin D testing. The IOM recommended a cut point of 20 ng/mL of serum 25-Hydroxyvitamin D for the diagnosis of vitamin D deficiency, indicating that levels above greater than or equal to 20 ng/mL are sufficient for 97.5% of the population.

There have been suggestions that Vitamin D supplementation may be beneficial in preventing SARS Covid 19 infections. At the current time while theoretically reasonable there is insufficient scientific evidence to consider this an evidence-based suggestion.

The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of screening for vitamin D deficiency in asymptomatic adults.
The IOM, USPSTF and the Endocrine Society, state that the levels of vitamin D intake listed below are sufficient for healthy individuals:

<table>
<thead>
<tr>
<th>Age</th>
<th>Recommended Vitamin D Intake (IU/day)</th>
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<tbody>
<tr>
<td>0-12 months</td>
<td>400 IU</td>
</tr>
<tr>
<td>1-70 years</td>
<td>600 IU</td>
</tr>
<tr>
<td>&gt;70 years</td>
<td>800 IU</td>
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</tbody>
</table>

Guidelines are intended to be flexible. They serve as reference points or recommendations, not rigid criteria. Guidelines should be followed in most cases, but there is an understanding that, depending on the patient, the setting, the circumstances, or other factors, care can and should be tailored to fit individual needs.


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Monroe County Medical Society Community-wide Guidelines

**Vitamin D Screening Recommendations**

**References**


Judd S MPH PhD Tangpricha V MD PhD Vitamin D Deficiency and Risk for Cardiovascular Disease Symposium Article The American Journal of the Medical Services July 2009 338:1 40-44.


Llewellyn, D PhD, Lang, I. PhD et al. Vitamin D and Risk of Cognitive Decline in Elderly Persons Archives of Internal Medicine July 12, 2010 170:1.3.


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Williams S MD, Malatesta K BS, Norris K MD Vitamin D and Chronic Kidney Disease Ethn Dis 2009 19(4 Suppl5): S5-8, 11.


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