

## Vitamin D Deficiency in Indian Women: Causes and Treatment

**Type:** Editorial Note

**Received:** February 21, 2025

**Published:** February 28, 2025

**Citation:**

Vinay Singh. "Vitamin D Deficiency in Indian Women: Causes and Treatment". PriMera Scientific Medicine and Public Health 6.3 (2025): 35.

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Vitamin D deficiency is a significant global health concern, and in India, it remains a largely undiagnosed and undertreated public health issue. Despite abundant sunlight, Vitamin D deficiency is highly prevalent in the Indian population, particularly among women. Several factors contribute to this widespread deficiency, making it a pressing issue that requires immediate attention.

One of the primary reasons for Vitamin D deficiency among Indian women is limited sun exposure. Many women, particularly homemakers, spend most of their time indoors and wear clothing that covers most of their body parts, thereby preventing adequate sunlight absorption. Cultural and religious practices, such as purdah and the use of burqas among Muslim women, further restrict exposure to sunlight, exacerbating the problem. Additionally, the widespread use of sunscreens, urbanization, office-based jobs, and rising air pollution contribute to reduced natural synthesis of Vitamin D. People residing in densely populated areas are particularly vulnerable due to limited outdoor activities.

Another major factor is the lack of fortified foods in India. The absence of mandatory Vitamin D fortification in staple foods results in a high prevalence of deficiency. Most individuals either have Vitamin D deficiency (<20 ng/ml) or Vitamin D insufficiency (20–30 ng/ml). Compounding this issue is a general lack of awareness among women about the importance of Vitamin D and its role in preventing various health conditions.

Scientific studies have linked Vitamin D deficiency to an increased risk of several diseases, including diabetes, cardiovascular disorders, and bone-related issues such as osteoporosis. Lifestyle factors like reduced physical activity and obesity further contribute to low Vitamin D levels.

**Addressing the Deficiency:** To combat this widespread deficiency, targeted interventions are necessary. Increasing awareness about the importance of Vitamin D and its sources is crucial. Encouraging outdoor activities, ensuring proper sun exposure, and advocating for the consumption of Vitamin D-rich foods, including fortified dairy products and supplements, can help mitigate the problem. Policymakers should consider implementing mandatory Vitamin D fortification programs to improve the nutritional status of the population.

In conclusion, Vitamin D deficiency in Indian women is a multifaceted issue driven by lifestyle, cultural practices, and environmental factors. Addressing this public health challenge requires a combination of awareness, dietary modifications, and policy interventions to ensure better health outcomes for women across the country.