

Clinical Commissioning Group

Management of Vitamin D in Adults

The quick guide adopted from NOS (for use in conjunction with full guideline www.nos.org.uk/professionals/publications)



Lifestyle advice

- Safe exposure to sunlight is the main source of vitamin D. Aim to spend 20-30 minutes on the face and forearms at midday on safe summer days three times weekly without sunscreen if in the United Kingdom.
- Dietary source of vitamin D includes oily fish, cod liver oils, dairy products, liver and egg yolk

Primary care guidance

- If being prescribed on FP10 then vitamin D preparations should be prescribed using the brand name to ensure the correct licensed preparation is dispensed in line with local formulary choice.
- Vitamin D preparations are available as a health food supplement and can be purchased from community pharmacy, health stores or supermarkets.
- Patients with CKD 4 and 5 may require additional monitoring (IPTH, Calcium) as determined by clinical need. Monitoring will be requested by, and the results will be interpreted by the initiating Consultant.

Risk factors*

Population groups at higher risk of having a low vitamin D status include:

- All pregnant and breastfeeding women, particularly teenagers and young women
- Infants and children under 5 years
- People over 65
- People who have low or no exposure to the sun. For example, those who cover their skin for cultural reasons, who are housebound or confined indoors for long periods
- People who have darker skin, for example, people of African, African–Caribbean and South Asian origin

In Secondary Care

In frail over 75's with fragility fractures:

- All those not already on vitamin D supplementation (assuming compliance) should have 100,000IU stat dose of vitamin D followed by 800 IU daily (as an over the counter (OTC)purchase normally).
- If already taking a form of vitamin D, but poor compliance suspected, then treat as if not on vitamin D (i.e. as above).
- If calcium is normal or low then this could be combined with calcium (e.g.Calci-D).

Use in Pregnancy

- The current recommendation in pregnancy is for routine supplementation of vitamin D at doses of 400units (10micrograms) per day. If treatment is required (due to deficiency shown by laboratory results), higher doses of vitamin D may be considered.
- For oral treatment of vitamin D deficiency in pregnant women, the Royal College of Obstetricians and Gynaecologists (RCOG) suggest colecalciferol 2,800units daily, colecalciferol 20,000units weekly, or ergocalciferol 10,000units twice a week should be used for 4-6 weeks
- Higher doses may be required in certain conditions as recommended by specialists.

Renal Patients

- Patients with CKD can still be prescribed Colecalciferol for Vitamin D deficiency in primary care.
- Alfacalcidol should **ONLY** be initiated on the advice of a nephrologist for certain patients.
- Full details available at: <u>https://renal.org/sites/renal.org/files/FINAL-Pregnancy-Guideline-September-2019.pdf</u>

References

1. Evaluation, Treatment, and Prevention of Vitamin D Deficiency: an Endocrine Society of Clinical Practice. Journal Clinical Endocrinology Metabolism.2011

- 2. Pearce SHS, Cheetham TD. Diagnosis and management of Vitamin D deficiency. British Medical Journal 2010;340:b566
- 3. Vitamin D and Bone Health: A practical clinical guideline for patient management https://theros.org.uk/media/5imnumtq/ros-vitamin-d-quick-guide-november-2018.pdf 4. Sheffield Guidance of optimising Vitamin D for adult Bone Health Guidance document
- 5.<u>Sheffield Guidance algorithm</u>
- 6. Vitamin D: increasing supplement use in at-risk groups http://www.nice.org.uk/guidance/ph56
- 7. Dosing and monitoring for treatment of Vitamin D deficiency in pregnancy SPS Specialist Pharmacy Service The first stop for professional

medicines advice

8. https://www.rcog.org.uk/globalassets/documents/guidelines/scientific-impact-papers/vitamin_d_sip43_june14.pdf

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