

## VITAMIN D PRESCRIBING GUIDANCE for adults (>18yrs)

For treatment options for strict vegan patients, please seek further advice from the Prescribing Advisor

NHS Rotherham CCG does not support prescribing of vitamin D products for the management of vitamin D **insufficiency** or as a maintenance therapy - all patients should receive lifestyle advice to supplement vitamin D and be advised to purchase these products over the counter as part of Self-Care. The prescribing of treatment (loading) course of vitamin D in **deficiency** is supported by the CCG.

Routine testing for vitamin D level is NOT RECOMMENDED in any patients unless:

### SYMPTOMATIC:

- chronic bone pain
- muscle weakness
- chronic widespread pain
- hypocalcaemia

### CLINICAL REASON:

- prior to initiation of antiresorptive agent (i.e. i.v. zoledronic acid, denosumab, oral bisphosphonates)
- osteomalacia
- high risk of fracture/ osteoporosis
- recurrent falls
- chronic liver or renal disease
- long term treatment with anti-epileptics/ oral steroids/ rifampicin/ isoniazid/ highly active anti-retroviral treatment
- malabsorption syndromes

**INVESTIGATIONS:** ▪ serum 25-OHD ▪ bone profile (Ca<sup>2+</sup>, PO<sub>4</sub>) ▪ U&Es and eGFR ▪ LFTs

Serum 25-OHD level	Vit D status	Recommendation	Monitoring
<25 nmol/L	<b>DEFICIENCY</b>	Rx loading dose treatment as <b>InVita D3 oral solution 50,000units/ml or InVita D3 50,000units capsule <u>once weekly for six weeks</u></b> followed by self-care substitution with over-the-counter supplements providing vit D 1000units (25micrograms) daily. Provide lifestyle advice incl. vit D PIL.	▪ adjusted serum calcium four weeks after completing the loading regimen. If Ca <sup>2+</sup> > normal range, check PTH level, refer to endocrinology and advise patient to stop vit D supplementation. ▪ re-testing 25-OHD not required unless patient remains symptomatic
<b>25-50 nmol/L</b> If symptomatic or presenting with clinical reason treat as for vit D deficiency	<b>INSUFFICIENCY</b> associated with risk of deficiency and linked disease risk but may be adequate in some individuals	Self-care with over-the-counter supplements providing vit D 1000units (25micrograms) daily. Provide lifestyle advice incl. vit D PIL.	None, unless change in clinical presentation.
<b>&gt; 50 nmol/L</b>	<b>SUFFICIENCY</b>	No treatment required. Provide lifestyle advice incl. vit D PIL. Self-care with over-the-counter supplements providing vit D 400units (10micrograms) daily over autumn and winter months for most adults and all year round for at high risk groups. Consider vit D+calcium for patients with osteoporosis/ on bisphosphonate therapy.	None, unless change in clinical presentation.

**⚠ REFER** to secondary care patients with deficiency or insufficiency and any of following conditions:  
 • malabsorption syndromes • short bowel • cholestatic liver disease • parathyroid disorders • CKD with eGFR<30ml/min • TB • sarcoidosis

## VITAMIN D SUPPLEMENTATION IN PATIENTS RECEIVING INSTITUTIONAL CARE OR HOUSEBOUND

Patient remaining long term in hospital, care or nursing home, specialised care unit or housebound



No baseline vit D level testing required unless symptomatic or presenting with clinical reason (as per the guideline above)



Where self-care with over the counter supplementation is not feasible initiate vit D prophylaxis with **InVita D3 oral solution 25,000units/ml or InVita D3 25,000units capsule once a month**



No monitoring is required, unless change in clinical presentation.


## VITAMIN D SUPPLEMENTATION IN PREGNANCY

Vitamin D supplementation advice should be provided at booking. Routine testing for vitamin D is not recommended unless symptoms or clinical reasons (as listed in this guidelines above).

Serum 25-OHD level	Vit D status	Recommendation	Monitoring
<25 nmol/L	<b>DEFICIENCY</b>	<p>Rx loading dose treatment:            1<sup>st</sup>line: <b>Fultium D3 3200units capsules – one <u>once daily</u> for five weeks (supply total of 35 capsules)</b> halal and kosher certified, suitable for patients with peanut allergy but not suitable for vegetarians/ vegans            2<sup>nd</sup> line: <b>Desunin 800units tablets - four tablets <u>once daily</u> for five weeks (supply total of 140 tablets)</b> gelatine free, suitable for patients with peanut allergy and vegetarians</p> <p>Followed by self-care substitution with over-the-counter supplements providing vit D 1000units (25micrograms) daily throughout pregnancy and thereafter. Provide lifestyle advice and vit D PIL.</p>	<ul style="list-style-type: none"> <li>re-test 25-OHD on completion of loading dose</li> <li>adjusted serum calcium four weeks after completion of loading regimen. If Ca<sup>2+</sup> &gt; normal range, check PTH level, refer to endocrinology and advise patient to stop vit D supplementation.</li> </ul>
<b>25-50 nmol/L</b> If symptomatic or presenting with clinical reason treat as for vit D deficiency	<b>INSUFFICIENCY</b>	<p>Self-care with over-the-counter supplements providing vit D 1000units (25micrograms) daily throughout pregnancy and thereafter. Provide lifestyle advice and vit D PIL.</p>	None, unless change in clinical presentation.
<b>&gt; 50 nmol/L</b>	<b>SUFFICIENCY</b>	<p>Self-care with over-the-counter supplements providing vit D 400units (10micrograms) daily throughout pregnancy and breastfeeding. Provide lifestyle advice and vit D PIL.            Can be obtained through Healthy Start vitamins scheme for eligible families.            Antenatal team to provide 2 months' supply of multivitamins for the mother.</p>	None, unless change in clinical presentation.

Women at **high risk of vitamin D deficiency** and **risk of pre-eclampsia** should be advised to self-care with over-the counter supplements providing vit D 1000units (25micrograms) daily throughout pregnancy. Prescribing of treatment doses is not recommended for risk prophylaxis.

Risk factors: • increased skin pigmentation • obesity with BMI  $\geq 30\text{kg/m}^2$  • reduced exposure to sunlight

 **REFER** to obstetric consultant pregnant women with deficiency or insufficiency and any of following conditions: • malabsorption syndromes • short bowel • cholestatic liver disease • parathyroid disorders • CKD with eGFR<30ml/min • TB • sarcoidosis