

Supplementary Table 3 – Vitamin D interventions

Author	Time Started ^b	Duration	Vitamin D Intervention Arm			Control Arm
			Type	Dose/ Frequency	Equivalent Daily Dose	Type
Aberg (2015)	Post-op (6 weeks)	1 year	Cholecalciferol (D3)	1,600IU OD	40mcg	Calcium carbonate
Barker (2021)	Pre-op (1 day)	3 days	Cholecalciferol (D3)	50,000IU OD	1250mcg	Placebo tablet
Cerit (2018)	Pre-op (48 hours)	Single dose	Vitamin D	50,000IU <i>once</i>	1250mcg <i>once</i>	No treatment
De Bruyn (2020)	Post-op (<2 weeks)	NR	Cholecalciferol (D3)	25,000IU <i>weekly</i>	625mcg <i>weekly</i>	Placebo vials
Eslami (2021)	Pre-op (3 days)	3 days	Vitamin D	50,000IU TDS	3750mcg	Inactive medication tablet
Genser (2013)	Pre-op (1 day)	9 days	Alfacalcidol	2mcg OD	2mcg	No treatment
Haji-Ketab (2021) ^a	Pre-op (5 days)	Single dose	Vitamin D	300,000IU <i>once</i>	7500mcg <i>once</i>	Placebo IM injection
Hao (2021)	Post-op	3 days	Calcitriol	0.25mcg BD	0.5mcg	Calcium carbonate
Krasowska (2019)	Pre-op (5 weeks)	5 weeks	Vitamin D	3,200IU OD	80mcg	Vegetable oil
Naguib (2021)	Pre-op (2 days)	LOS ^c in hospital	Alfacalcidol	2mcg OD	2mcg	No treatment
Parekh (2018)	Pre-op (3-14 days)	Single dose	Cholecalciferol (D3)	300,000IU <i>once</i>	7500mcg <i>once</i>	Placebo
Rowe (2018)	Pre-op (7 days)	6 days	Cholecalciferol (D3)	50,000IU OD	1250mcg	Rice flower capsule
Slobogean (2020)	Post-op (<2 weeks)	6 months	Vitamin D drops	2,000IU BD	100mcg	Placebo
Urashima (2019)	Post-op (1 st FU)	Length of trial	Vitamin D	2,000IU OD	50mcg	Placebo

^a Hajimohammadebrahim-Ketabforoush ^b Where treatment commenced preoperatively, the time in brackets represents the number of days/weeks prior to surgery (where reported); for postoperative treatment, this represents the number of days/weeks after surgery. FU=First outpatient follow-up. ^c LOS – Length of Stay

