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SUPPLEMENTARY MATERIALS

Gusti N, Iqhrammullah M, Rampengan DD, et al. Is serum vitamin D level involved in left ventricular remodeling among individuals with impaired renal function? A systematic review with pairwise and dose-response meta-analysis. *Pol Ann Med*. https://doi.org/10.29089/paom/200906. [in press].

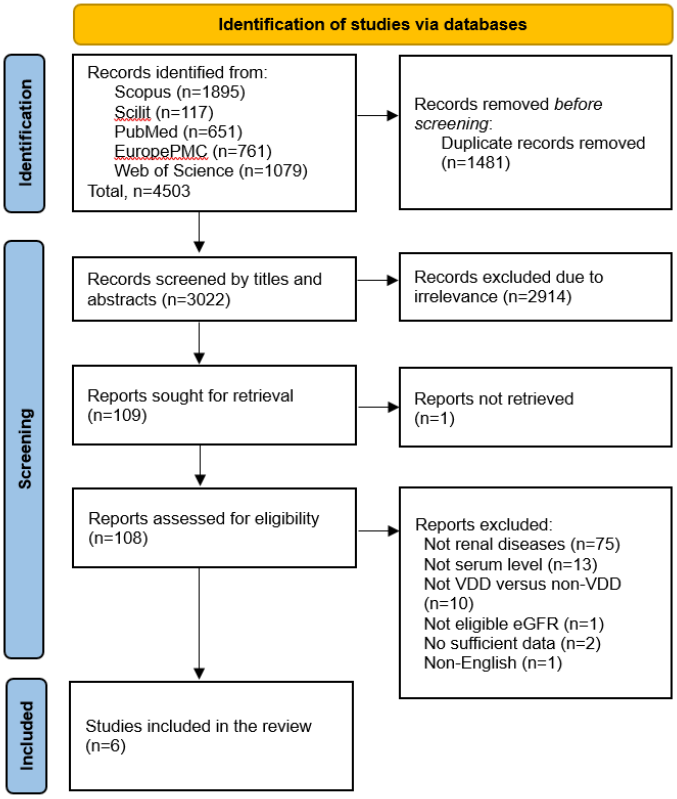

Figure S1. PRISMA flow-chart for the screening and selection of studies reporting the relationship between serum vitamin D level and left ventricular remodeling among patients with impaired renal function.

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Table S1. Characteristics and outcomes of reporting the relationship between serum vitamin D level and left ventricular remodeling among patients with impaired renal function.

Author, year[Ref]	Study design	Country	Sample size	Mean Age	Sex (F/M)	Renal conditions	eGFR (mL/min/ 1.73 m^2)	Type of vitamin D	Outcome(s)	Modifying factor
Hsu et al., 2023[29]	Cross-sectional	United States	1103	59.0 ± 11.0	470/663	CKD	43.0 ± 17.0	25(OH)D & 1,25(OH)$_2$D	LVMI↓	PTH
Ramadan et al., 2022[32]	Case-control	Egypt	40	13.2 ± 3.6	24/16	CKD	NR	25(OH)D	LVMI⇓	NR
Hyeon et al., 2024[30]	Cross-sectional	South Korea	513	59.3 ± 10.58	222/291	CKD	31.8 ± 14.3	25(OH)D & 1,25(OH)$_2$D	LVMI⇓, LVDD↓, LVEF, LVH ↓	Independent
Căpuşă et al., 2016[33]	Cross-sectional	Romania	87	61.9 ± 4.98	36/51	CKD (non-dialysis)	32.0 ± 2.0	25(OH)D	IVST	NR
Ky et al, 2013[31]	Cohort	USA	1431	60.0 ± 10.5	668/743	CKD	47.1 ± 17.3	25(OH)D & 1,25(OH)$_2$D	LVMI↓	PTH, FGF 23
Bucharles et al, 2011[9]	Cross-sectional	Brazil	61	56.0 ± 15.5	33/29	CKD	NR	25(OH)D & 1,25(OH)$_2$D	LVM↓, LVESD↓,	NR

Comments: (⇓), significantly positive correlation; ↓ significantly lower in VDD group; otherwise, no statistical significance was observed. 1,25(OH)2D – 1,25-dihydroxyvitamin D; 25(OH)D – 25-hydroxyvitamin D; CKD – chronic kidney disease; IVST – intraventricular septum thickness; LVEDD – left ventricular end-diastolic diameter; LVESD – left ventricular end-systolic diameter; LVM – left ventricular mass; LVMI – left ventricular mass index.