

Table S1 The detailed search strategy (taking PubMed as an example)

Items	Specification
MeSH	("Vascular Calcification/diet therapy"[Mesh]) OR "Vascular Calcification/metabolism"[Mesh] OR "Vascular Calcification/prevention and control"[Mesh]. 1,633 references were found and evaluated according to the inclusion and exclusion criteria, and 25 references were included in this study
Free text	Chronic Kidney Disease; Vascular Calcification; Artery Calcification; Phosphate; Phosphate-Lowering Agents; Ferric Citrate; Sucroferric Oxyhydroxide; Calcium; Magnesium; Iron; Dyslipidemia; Low-Density Lipoprotein Cholesterol; Lipoprotein(a); Malnutrition; Vitamin K
Filters	Studies not related to the research topic, such as those with nonchronic kidney disease related vascular calcification or nonnutritional metabolic treatments, were excluded