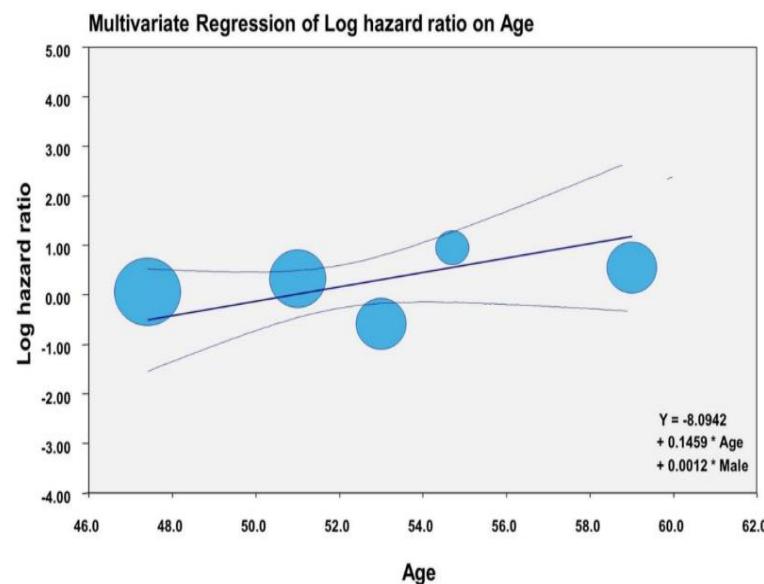
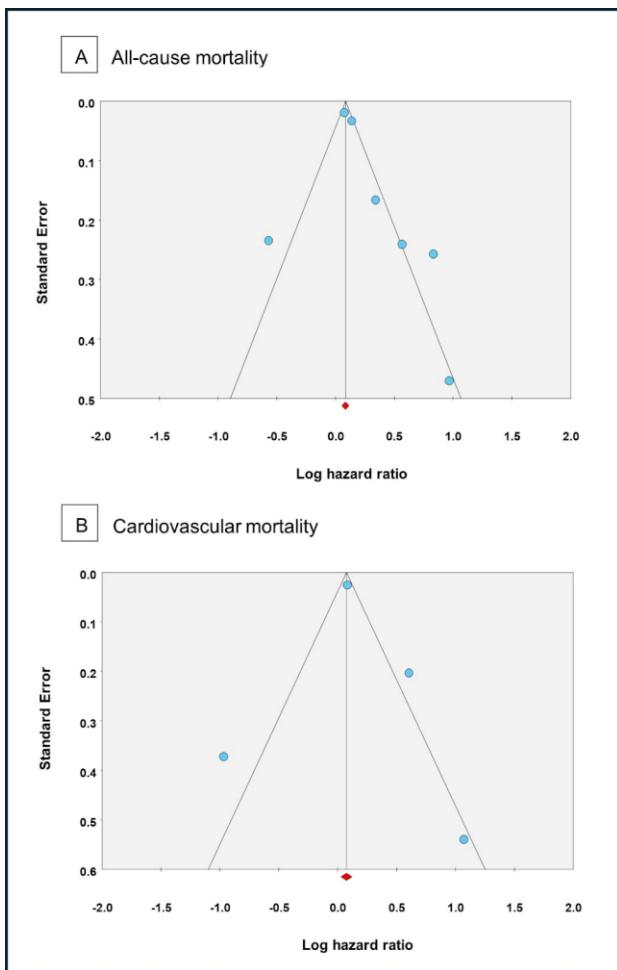


Supplementary Figure 1 Leave-one-out sensitivity analysis for neutrophil-to-lymphocyte ratio > 3 in Peritoneal Dialysis. A: All-cause mortality [adjusted hazard ratio (aHR)]; B: Cardiovascular mortality (aHR). NLR: Neutrophil-to-lymphocyte ratio.



Supplementary Figure 2 Scatter plot illustrating meta-regression analysis of all-cause mortality with age.



Supplementary Figure 3 Funnel plot assessment of publication bias. A: All-cause mortality; B: Cardiovascular mortality.

Supplementary Appendix A: Detailed search strategy

Databases searched

We conducted a systematic literature search across the following databases: (1) PubMed/MEDLINE; (2) Google Scholar; and (3) Scopus.

Time frame

Search period: January 1, 2011, to June 30, 2024.

Last search conducted on: June 1, 2024.

Search strategy

Search strategy

PubMed/MEDLINE	("Neutrophil-Lymphocyte Ratio"[MeSH] OR "neutrophil to lymphocyte ratio" OR "neutrophil lymphocyte ratio" OR "NLR") AND (Peritoneal Dialysis"[MeSH] OR "chronic dialysis" OR "dialysis" OR "maintenance dialysis" OR "end-stage renal disease" OR "ESRD") AND ("Mortality"[MeSH] OR "All-Cause Mortality" OR "Cardiovascular Mortality" OR "death" OR "survival" OR "prognosis" OR "risk" OR "cardiac arrest")
Google Scholar	"Neutrophil to lymphocyte ratio" OR "NLR" AND "chronic peritoneal dialysis" OR "maintenance dialysis" OR "end-stage renal disease" AND "mortality" OR "all-cause mortality" OR "cardiovascular mortality" OR "prognosis"
Scopus	TITLE-ABS-KEY ("neutrophil to lymphocyte ratio" OR "neutrophil-lymphocyte ratio" OR "NLR") AND TITLE-ABS-KEY ("Peritoneal dialysis" OR "dialysis" OR "end-stage renal disease" OR "ESRD") AND TITLE-ABS-KEY ("mortality" OR "all-cause mortality" OR "cardiovascular mortality" OR "death" OR "prognosis" OR "risk")

Screening and selection process

Deduplication was performed using Rayyan software. Title and abstract screening were performed independently by two reviewers (Damarlapally N and Vempati R). Full-text screening was conducted independently; disagreements were resolved by consensus with a third reviewer (Mourad D). Studies were included if they met all pre-specified inclusion criteria (described below). The selection process was documented using a PRISMA flow diagram (Figure 1).

Inclusion criteria

Studies reporting an association between neutrophil-to-lymphocyte ratio and all-cause mortality or cardiovascular mortality in adult patients undergoing

peritoneal hemodialysis. Observational studies (prospective or retrospective cohort studies). Studies reporting adjusted hazard ratio (aHR) or odds ratio (OR) with corresponding 95%CI.

Exclusion criteria

Studies involving pediatric populations (<18 years). Studies involving hemodialysis, kidney transplant patients, or acute dialysis. Animal studies, conference abstracts, case reports, reviews, and editorials. Studies not reporting mortality outcomes or lacking effect estimates (HR or OR with 95%CI). Non-English publications.