

## Supplementary File S1 Database-Specific Search Strategies

Database	Search Date	Final Search String	Interpretation	An optional string with another term	Interpretation
PubMed	25 May 2026	(CKD OR chronic kidney disease OR renal disease OR renal failure OR kidney disease OR kidney failure) AND (psychological OR mental health OR psychological well-being OR emotional) AND (spirituality OR spiritual care OR spiritual needs).	210 articles, In line with other databases	(chronic kidney disease OR renal failure) AND (psychological) AND (spirituality)	123 articles, which are consistent with other databases when compared
				(("Chronic Kidney Disease-Mineral and Bone Disorder"[Mesh]) AND "Resilience, Psychological"[Mesh]) AND "Spirituality"[Mesh]	Zero result
Scopus	25 May 2026	(CKD OR chronic kidney disease OR renal disease OR renal failure OR kidney disease OR kidney failure) AND (psychological OR mental health OR psychological well-being OR emotional) AND (spirituality OR spiritual care OR spiritual needs).	729 articles, In line with other databases	(chronic kidney disease OR renal failure) AND (psychological) AND (spirituality)	781 articles, which are consistent with other string when compared

Database	Search Date	Final Search String	Interpretation	An optional string with another term	Interpretation
ScienceDirect	25 May 2026	(chronic kidney disease OR renal failure) AND (psychological) AND (spirituality)	257 In line with other databases.	(CKD OR chronic kidney disease OR renal disease OR renal failure OR kidney disease OR kidney failure) AND (psychological OR mental health OR psychological well-being OR emotional) AND (spirituality OR spiritual care OR spiritual needs).	The ScienceDirect database allows a maximum of 8 terms for logical operators.
EBSCOhost (CINAHL, MEDLINE, Academic Search Complete)	25 May 2026	(CKD OR chronic kidney disease OR renal disease OR renal failure OR kidney disease OR kidney failure) AND (psychological OR mental health OR psychological well-being OR emotional) AND (spirituality OR spiritual care OR spiritual needs).	258 In line with other databases	(chronic kidney disease OR renal failure) AND (psychological) AND (spirituality)	136 articles, which are consistent with other databases when compared

Limits applied to all databases:

- Publication years: 2021–2026
- Language: English or Indonesian
- Population: Adults (≥18 years)
- Document types: Randomized controlled trials, qualitative studies, cross-sectional studies, cohort studies, mixed-methods studies, systematic reviews, and meta-analyses
- Peer-reviewed publications only
- The search strategy for ScienceDirect was adapted to the functionality and indexing characteristics of each database. ScienceDirect generally retrieves a large volume of records when broad search strings are applied across full-text content. Therefore, a more focused combination of key concepts (“chronic kidney disease OR renal failure”,

“psychological”, and “spirituality”) was used to improve search precision while maintaining alignment with the Population–Concept–Context framework. The broader conceptual domains represented by mental health, emotional well-being, spiritual care, and spiritual needs were expected to be captured within articles indexed under these core terms.