

S4 Appendix. Keyword search and search strategy.

1. Keyword search

We would search the databases using the following free text and exploded MeSH terms:

1. Prevalence: prevalence, epidemiology, and burden

2. Chronic kidney disease: CKD, chronic kidney disease, chronic renal failure, chronic kidney failure, chronic renal insufficiency, chronic kidney insufficiency, ESRD, and end stage renal disease.

3. Region: Asia

2. Search strategy

Period of searching:

We searched the literature that published from inception until 30th Nov, 2021

Table S1. Systematic Review Search Strategy: between the group of prevalence key search, chronic kidney disease key search, and Asia

| Database | Search term | No. of Article |
|-----------------|---|-----------------------|
| PubMed/Medline | #1 “renal insufficiency, chronic” [MeSH] | 124,666 |
| | #2 “kidney failure, chronic” [MeSH] | 97,581 |
| | #3 “CKD” | 36,347 |
| | #4 “chronic kidney disease” | 60,855 |
| | #5 “chronic renal failure” | 24,343 |
| | #6 “chronic kidney insufficiency” | 234 |
| | #7 “ESRD” | 18,113 |
| | #8 “end stage renal disease” | 36,079 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 179,175 |
| | #10 "prevalence"[Mesh] | 322,575 |
| | #11 "epidemiology"[Mesh] | 27,861 |
| | #12 "burden" | 271,927 |
| | #13 #10 OR #11 OR #12 | 603,328 |
| | #14 “asia” [Mesh] | 948,389 |
| | #15 #9 AND #13 | 11,063 |
| | #16 #15 AND #14 | 1,774 |

| Database | Search term | No. of Article |
|-----------------|---|-----------------------|
| ScienceDirect | #1 "chronic renal insufficiency" | 1,154 |
| | #2 "chronic kidney failure" | 363 |
| | #3 "CKD" | 10,135 |
| | #4 "chronic kidney disease" | 18,271 |
| | #5 "chronic renal failure" | 5,573 |
| | #6 "chronic kidney insufficiency" | 24 |
| | #7 "ESRD" | 4,947 |
| | #8 "end stage renal disease" | 10,476 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 35,843 |
| | #10 "prevalence" | 193,000 |
| | #11 "epidemiology" | 67,363 |
| | #12 "burden" | 87,989 |
| | #13 #10 OR #11 OR #12 | 324,979 |
| | #14 "asia*" | 73,384 |
| | #15 #9 AND #13 | 5,857 |
| | #16 #15 AND #14 | 208 |
| Scopus | #1 "chronic renal insufficiency" | 6,280 |
| | #2 "chronic kidney failure" | 108,253 |

| Database | Search term | No. of Article |
|------------------|--|-----------------------|
| | #3 “CKD” | 39,955 |
| | #4 “chronic kidney disease” | 81,552 |
| | #5 “chronic renal failure” | 31,472 |
| | #6 “chronic kidney insufficiency” | 205 |
| | #7 “ESRD” | 20,088 |
| | #8 “end stage renal disease” | 54,312 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 210,898 |
| | #10 "prevalence" | 1,108,724 |
| | #11 "epidemiology" | 639,769 |
| | #12 "burden" | 408,616 |
| | #13 #10 OR #11 OR #12 | 1,973,200 |
| | #14 “asia*” | 656,027 |
| | #15 #9 AND #13 | 32,712 |
| | #16 #15 AND #14 | 1,201 |
| Cochrane Library | #1 “renal insufficiency, chronic” [MeSH] | 7,192 |
| | #2 “kidney failure,chronic” [MeSH] | 4,867 |
| | #3 “CKD” | 6,322 |
| | #4 “chronic kidney disease” | 8,734 |

| Database | Search term | No. of Article |
|-----------------|---|-----------------------|
| | #5 "chronic renal failure" | 2,158 |
| | #6 "chronic kidney insufficiency" | 15 |
| | #7 "ESRD" | 2,225 |
| | #8 "end stage renal disease" | 4,408 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 17,080 |
| | #10 "prevalence"[Mesh] | 4,881 |
| | #11 "epidemiology"[Mesh] | 42 |
| | #12 "burden" | 27,549 |
| | #13 #10 OR #11 OR #12 | 31,264 |
| | #14 "asia" [Mesh] | 22,353 |
| | #15 #9 AND #13 | 609 |
| | #16 #15 AND #14 | 20 |
| EMBASE | #1 "chronic renal insufficiency" | 33,167 |
| | #2 "chronic kidney failure" | 47,549 |
| | #3 "CKD" | 30,071 |
| | #4 "chronic kidney disease" | 51,608 |
| | #5 "chronic renal failure" | 34,184 |
| | #6 "chronic kidney insufficiency" | 29,764 |

| Database | Search term | No. of Article |
|--|---|-----------------------|
| | #7 "ESRD" | 18,135 |
| | #8 "end stage renal disease" | 30,557 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 77,935 |
| | #10 "prevalence" | 339,289 |
| | #11 "epidemiology" | 1,044,294 |
| | #12 "burden" | 158,573 |
| | #13 #10 OR #11 OR #12 | 1,264,167 |
| | #14 "asia*" | 143,365 |
| | #15 #9 AND #13 | 31,886 |
| | #16 #15 AND #14 | 1,306 |
| Thai Library Integrated System (ThaiLIS) | #1 "chronic renal insufficiency" | 0 |
| | #2 "chronic kidney failure" | 0 |
| | #3 "CKD" | 165 |
| | #4 "chronic kidney disease" | 115 |
| | #5 "chronic renal failure" | 63 |
| | #6 "chronic kidney insufficiency" | 0 |
| | #7 "ESRD" | 29 |

| Database | Search term | No. of Article |
|----------------------|---|-----------------------|
| | #8 "end stage renal disease" | 47 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 390 |
| | #10 "prevalence" | 1,562 |
| | #11 "epidemiology" | 557 |
| | #12 "burden" | 768 |
| | #13 #10 OR #11 OR #12 | 2,755 |
| | #14 "asia" | 3,025 |
| | #15 #9 AND #13 | 2 |
| | #16 #15 AND #14 | 2 |
| Thai Thesis Database | #1 "chronic renal insufficiency" | 0 |
| | #2 "chronic kidney failure" | 2 |
| | #3 "CKD" | 149 |
| | #4 "chronic kidney disease" | 102 |
| | #5 "chronic renal failure" | 62 |
| | #6 "chronic kidney insufficiency" | 0 |
| | #7 "ESRD" | 26 |
| | #8 "end stage renal disease" | 43 |

| Database | Search term | No. of Article |
|--------------------------------|--|-----------------------|
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 336 |
| | #10 "prevalence" | 1,428 |
| | #11 "epidemiology" | 539 |
| | #12 "burden" | 705 |
| | #13 #10 OR #11 OR #12 | 2,549 |
| | #14 "asia" | 2,692 |
| | #15 #9 AND #13 | 0 |
| | #16 #15 AND #14 | 0 |
| Grey Literature (OpenSIGLE) | #1 "chronic renal insufficiency" | 16 |
| | #2 "chronic kidney failure" | 46 |
| | #3 "CKD" | 58 |
| | #4 "chronic kidney disease" | 113 |
| | #5 "chronic renal failure" | 115 |
| | #6 "chronic kidney insufficiency" | 3 |
| | #7 "ESRD" | 20 |
| | #8 "end stage renal disease" | 61 |
| | #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 | 287 |

| Database | Search term | No. of Article |
|----------|-----------------------|----------------|
| | #10 "prevalence" | 3,612 |
| | #11 "epidemiology" | 2,221 |
| | #12 "burden" | 987 |
| | #13 #10 OR #11 OR #12 | 6,524 |
| | #14 "asia*" | 3,523 |
| | #15 #9 AND #13 | 28 |
| | #16 #15 AND #14 | 0 |