

Supplementary file 2: search strategy**1. Pubmed:**

("Medical Overuse"[Mesh] OR Low-value care [tiab] OR low-value hospital care [tiab] OR low-value healthcare [tiab] OR wasteful care [tiab] OR wasteful healthcare [tiab] OR wasteful hospital care [tiab] OR overuse of healthcare [tiab] OR overuse procedure* [tiab] OR medical overuse [tiab] OR inappropriate healthcare [tiab] OR inappropriate care [tiab] OR unwanted healthcare [tiab] OR unwanted care [tiab] OR unnecessary healthcare [tiab] OR unnecessary care [tiab] OR Overdiagnos* [tiab] OR Over diagnos* [tiab] OR ineffective care [tiab] OR ineffective healthcare [tiab]) AND ("Diagnosis"[Mesh] OR diagnos* [tiab]) AND "statistics and numerical data" [Subheading] OR Variation* [tiab] OR Volume* [tiab] OR Prevalence* [tiab] OR Cost [tiab] OR costs [tiab] OR Frequenc* [tiab] AND "Guidelines as Topic"[Mesh] OR Guideline* [tiab] OR Choosing Wisely [tiab] OR policy [tiab] OR policies [tiab]

2. Web of science:

TOPIC: ("Low-value care" OR "low-value hospital care" OR "low-value healthcare" OR "wasteful care" OR "wasteful healthcare" OR "wasteful hospital care" OR "overuse of healthcare" OR "overuse procedure*" OR "medical overuse" OR "inappropriate healthcare" OR "inappropriate care" OR "unwanted healthcare" OR "unwanted care" OR "unnecessary healthcare" OR "unnecessary care" OR "Overdiagnos*" OR "Over diagnos*" OR "ineffective care" OR "ineffective healthcare") AND (diagnos*) AND (Variation* OR Volume* OR Prevalence* OR Cost OR costs OR frequenc*) AND (Guideline* OR "Choosing Wisely" OR policy OR policies)

3. Embase:

(exp clinical effectiveness/ OR (Low-value care OR low-value hospital care OR low-value healthcare OR wasteful care OR wasteful healthcare OR wasteful hospital care OR overuse of healthcare OR overuse procedure* OR medical overuse OR inappropriate healthcare OR inappropriate care OR unwanted healthcare OR unwanted care OR unnecessary healthcare OR unnecessary care OR Overdiagnos* OR Over diagnos* OR ineffective care OR ineffective healthcare).ti,ab,kw.) AND (exp diagnosis/ OR (diagnos*).ti,ab,kw.) AND frequency/ OR exp health statistics/ OR (Variation* OR Volume* OR Prevalence* OR Cost OR costs OR frequenc*).ti,ab,kw. AND exp Health statistics/ AND exp Practice guideline/ OR (Guideline* OR Choosing Wisely OR policy OR policies).ti,ab,kw.