

Online Resource 1: Search string

- **Embase:**

('low income country'/exp OR 'low income country' OR 'low-income economy'/exp OR 'low-income economy' OR 'low-income economy country'/exp OR 'low-income economy country' OR 'low income country':ti,ab,kw OR 'low and middle income country'/exp OR 'low and middle income country' OR 'low and middle income countr*':ti,ab,kw OR 'developing count':ti,ab,kw OR 'developing country'/exp OR 'developing country' OR 'country, underdeveloped':ti,ab,kw OR 'developing area':ti,ab,kw OR 'developing countries':ti,ab,kw OR 'developing country':ti,ab,kw OR 'less-developed country':ti,ab,kw OR 'third world country':ti,ab,kw OR 'under-developed country':ti,ab,kw OR 'underdeveloped countries':ti,ab,kw OR 'underdeveloped country':ti,ab,kw OR 'afghanistan':ti,ab,kw OR 'albania':ti,ab,kw OR 'argentina':ti,ab,kw OR 'armenia':ti,ab,kw OR 'azerbaijan':ti,ab,kw OR 'bangladesh':ti,ab,kw OR 'belarus':ti,ab,kw OR 'belize':ti,ab,kw OR 'bhutan':ti,ab,kw OR 'bolivia':ti,ab,kw OR 'bosnia and herzegovina':ti,ab,kw OR 'brazil':ti,ab,kw OR 'cambodia':ti,ab,kw OR 'china':ti,ab,kw OR 'colombia':ti,ab,kw OR 'costa rica':ti,ab,kw OR 'cuba':ti,ab,kw OR 'dominica':ti,ab,kw OR 'dominican republic':ti,ab,kw OR 'ecuador':ti,ab,kw OR 'el salvador':ti,ab,kw OR 'fiji':ti,ab,kw OR 'georgia':ti,ab,kw OR 'grenada':ti,ab,kw OR 'guatemala':ti,ab,kw OR 'guyana':ti,ab,kw OR 'haiti':ti,ab,kw OR 'honduras':ti,ab,kw OR 'india':ti,ab,kw OR 'indonesia':ti,ab,kw OR 'iran':ti,ab,kw OR 'iraq':ti,ab,kw OR 'jamaica':ti,ab,kw OR 'jordan':ti,ab,kw OR 'kazakhstan':ti,ab,kw OR 'kiribati':ti,ab,kw OR 'north korea':ti,ab,kw OR 'kosovo':ti,ab,kw OR 'kyrgyzstan':ti,ab,kw OR 'laos':ti,ab,kw OR 'lebanon':ti,ab,kw OR 'north macedonia':ti,ab,kw OR 'malaysia':ti,ab,kw OR 'maldives':ti,ab,kw OR 'marshall islands':ti,ab,kw OR 'mexico':ti,ab,kw OR 'micronesia':ti,ab,kw OR 'moldova':ti,ab,kw OR 'mongolia':ti,ab,kw OR 'montenegro':ti,ab,kw OR 'montserrat':ti,ab,kw OR 'myanmar':ti,ab,kw OR 'nauru':ti,ab,kw OR 'nepal':ti,ab,kw OR 'nicaragua':ti,ab,kw OR 'niue':ti,ab,kw OR 'pakistan':ti,ab,kw OR 'panama':ti,ab,kw OR 'papua new guinea':ti,ab,kw OR 'paraguay':ti,ab,kw OR 'peru':ti,ab,kw OR 'philippines':ti,ab,kw OR 'samoa':ti,ab,kw OR 'sao tome and principe':ti,ab,kw OR 'serbia':ti,ab,kw OR 'solomon islands':ti,ab,kw OR 'sri lanka':ti,ab,kw OR 'saint lucia':ti,ab,kw OR 'saint vincent and the grenadines':ti,ab,kw OR 'suriname':ti,ab,kw OR 'syrian arab republic':ti,ab,kw OR 'tajikistan':ti,ab,kw OR 'thailand':ti,ab,kw OR 'timor-leste':ti,ab,kw OR 'tonga':ti,ab,kw OR 'turkey':ti,ab,kw OR 'turkmenistan':ti,ab,kw OR 'tuvalu':ti,ab,kw OR 'ukraine':ti,ab,kw OR 'uzbekistan':ti,ab,kw OR 'vanuatu':ti,ab,kw OR 'venezuela':ti,ab,kw OR 'vietnam':ti,ab,kw OR 'yemen':ti,ab,kw OR 'africa':ti,ab,kw OR 'algeria':ti,ab,kw OR 'angola':ti,ab,kw OR 'benin':ti,ab,kw OR 'botswana':ti,ab,kw OR 'burkina faso':ti,ab,kw OR 'burundi':ti,ab,kw OR 'cameroon':ti,ab,kw OR 'cape verde':ti,ab,kw OR 'central african republic':ti,ab,kw OR 'chad':ti,ab,kw OR 'comoros':ti,ab,kw OR 'congo':ti,ab,kw OR 'democratic republic of congo':ti,ab,kw OR 'djibouti':ti,ab,kw OR 'egypt':ti,ab,kw OR 'eritrea':ti,ab,kw OR 'ethiopia':ti,ab,kw OR 'gabon':ti,ab,kw OR 'gambia':ti,ab,kw OR 'ghana':ti,ab,kw OR 'guinea':ti,ab,kw OR 'kenya':ti,ab,kw OR 'lesotho':ti,ab,kw OR 'liberia':ti,ab,kw OR 'madagascar':ti,ab,kw OR 'malawi':ti,ab,kw OR 'mali':ti,ab,kw OR 'mauritania':ti,ab,kw OR 'morocco':ti,ab,kw OR 'mozambique':ti,ab,kw OR 'namibia':ti,ab,kw OR 'niger':ti,ab,kw OR 'nigeria':ti,ab,kw OR 'rwanda':ti,ab,kw OR 'senegal':ti,ab,kw OR 'seychelles':ti,ab,kw OR 'sierra leone':ti,ab,kw OR 'somalia':ti,ab,kw OR 'sudan':ti,ab,kw OR 'tanzania':ti,ab,kw OR 'togo':ti,ab,kw OR 'tunisia':ti,ab,kw OR 'uganda':ti,ab,kw OR 'zambia':ti,ab,kw OR 'zimbabwe':ti,ab,kw) AND ('active safety surveillance' OR 'pharmacovigilance'/exp OR 'pharmacovigilance' OR 'vaccine safety'/exp OR 'vaccine safety' OR 'drug safety'/exp OR 'drug safety' OR 'medicine safety' OR 'vaccine monitoring' OR 'immunization safety surveillance' OR 'product surveillance' OR 'postmarketing surveillance'/exp OR 'postmarketing surveillance' OR 'post-marketing

surveillance'/exp OR 'post-marketing surveillance' OR 'active safety surveillance':ti,ab,kw OR 'pharmacovigilance':ti,ab,kw OR 'vaccine safety':ti,ab,kw OR 'drug safety':ti,ab,kw OR 'medicine safety':ti,ab,kw OR 'immunization safety surveillance':ti,ab,kw OR 'vaccine monitoring':ti,ab,kw OR 'product surveillance':ti,ab,kw OR 'postmarketing surveillance':ti,ab,kw OR 'post-marketing surveillance':ti,ab,kw OR 'sentinel surveillance'/exp OR 'vigibase'/exp OR 'cohort event monitoring':ti,ab,kw OR 'prospective cohort studies':ti,ab,kw OR 'sentinel surveillance':ti,ab,kw OR 'pregnancy exposure registries':ti,ab,kw OR 'targeted spontaneous reporting':ti,ab,kw OR 'enhanced spontaneous reporting':ti,ab,kw OR 'indepth network':ti,ab,kw OR 'vaccine safety net':ti,ab,kw OR 'health demographic surveillance system':ti,ab,kw OR 'vaccine safety datalink':ti,ab,kw OR 'dhis2':ti,ab,kw OR 'vigibase':ti,ab,kw OR 'vigiflow':ti,ab,kw OR 'european network of centres for pharmacoepidemiology and pharmacovigilance':ti,ab,kw OR 'eudravigilance':ti,ab,kw OR 'who global individual case safety reports':ti,ab,kw OR 'asia pacific economic cooperation pharmacovigilance network':ti,ab,kw OR 'medwatch':ti,ab,kw OR 'mymeds':ti,ab,kw OR 'vigilyze':ti,ab,kw OR 'saferx':ti,ab,kw OR 'yellow card app':ti,ab,kw OR 'medsafety app':ti,ab,kw) AND ('adverse effect'/exp OR 'adverse effect' OR 'adverse event'/exp OR 'adverse event' OR 'side effect'/exp OR 'side effect' OR 'adverse events following immunization'/exp OR 'adverse events following immunization' OR 'adverse events of special interest' OR 'vaccine associated enhanced disease' OR 'adverse effect':ti,ab,kw OR 'adverse event':ti,ab,kw OR 'side effect':ti,ab,kw OR 'adverse events following immunization':ti,ab,kw OR 'adverse events of special interest':ti,ab,kw OR 'vaccine associated enhanced disease':ti,ab,kw) AND (2013:py OR 2024:py) NOT ('animal'/exp NOT 'human'/exp) NOT ('phase 1' OR 'phase 2' OR 'phase 3' OR 'herbal drug'/exp OR 'chemotherapy'/exp OR 'cost effectiveness analysis'/exp)

- **PubMed:**

("low-income countries"[MeSH Terms] OR "developing countries"[MeSH Terms] OR "low-income countries"[Title/Abstract] OR "developing countries"[Title/Abstract] OR "third world"[Title/Abstract] OR "low resource setting"[Title/Abstract] OR "low-income country"[Title/Abstract] OR "low- and middle-income country"[Title/Abstract] OR "LMIC"[Title/Abstract] OR "developing country"[Title/Abstract] OR "underdeveloped country"[Title/Abstract] OR "resource-limited setting"[Title/Abstract]) OR ("afghanistan"[Title/Abstract] OR "albania"[Title/Abstract] OR "argentina"[Title/Abstract] OR "armenia"[Title/Abstract] OR "azerbaijan"[Title/Abstract] OR "bangladesh"[Title/Abstract] OR "belarus"[Title/Abstract] OR "belize"[Title/Abstract] OR "bhutan"[Title/Abstract] OR "bolivia"[Title/Abstract] OR "bosnia and herzegovina"[Title/Abstract] OR "brazil"[Title/Abstract] OR "cambodia"[Title/Abstract] OR "china"[Title/Abstract] OR "colombia"[Title/Abstract] OR "costa rica"[Title/Abstract] OR "cuba"[Title/Abstract] OR "dominica"[Title/Abstract] OR "dominican republic"[Title/Abstract] OR "ecuador"[Title/Abstract] OR "el salvador"[Title/Abstract] OR "fiji"[Title/Abstract] OR "georgia"[Title/Abstract] OR "grenada"[Title/Abstract] OR "guatemala"[Title/Abstract] OR "guyana"[Title/Abstract] OR "haiti"[Title/Abstract] OR "honduras"[Title/Abstract] OR "india"[Title/Abstract] OR "indonesia"[Title/Abstract] OR "iran"[Title/Abstract] OR "iraq"[Title/Abstract] OR "jamaica"[Title/Abstract] OR "jordan"[Title/Abstract] OR "kazakhstan"[Title/Abstract] OR "kiribati"[Title/Abstract] OR "north korea"[Title/Abstract] OR "kosovo"[Title/Abstract] OR "kyrgyzstan"[Title/Abstract] OR "laos"[Title/Abstract] OR "lebanon"[Title/Abstract] OR "north macedonia"[Title/Abstract] OR "malaysia"[Title/Abstract] OR "maldives"[Title/Abstract] OR "marshall islands"[Title/Abstract] OR "mexico"[Title/Abstract] OR "micronesia"[Title/Abstract] OR "moldova"[Title/Abstract] OR "mongolia"[Title/Abstract] OR "montenegro"[Title/Abstract] OR "montserrat"[Title/Abstract] OR "myanmar"[Title/Abstract] OR "nauru"[Title/Abstract] OR

"nepal"[Title/Abstract] OR "nicaragua"[Title/Abstract] OR "niue"[Title/Abstract] OR
 "pakistan"[Title/Abstract] OR "panama"[Title/Abstract] OR "papua new guinea"[Title/Abstract] OR
 "paraguay"[Title/Abstract] OR "peru"[Title/Abstract] OR "philippines"[Title/Abstract] OR
 "samoa"[Title/Abstract] OR "sao tome and principe"[Title/Abstract] OR "serbia"[Title/Abstract] OR
 "solomon islands"[Title/Abstract] OR "sri lanka"[Title/Abstract] OR "saint lucia"[Title/Abstract] OR
 "saint vincent and the grenadines"[Title/Abstract] OR "suriname"[Title/Abstract] OR "syrian arab
 republic"[Title/Abstract] OR "tajikistan"[Title/Abstract] OR "thailand"[Title/Abstract] OR "timor-
 leste"[Title/Abstract] OR "tonga"[Title/Abstract] OR "turkey"[Title/Abstract] OR
 "turkmenistan"[Title/Abstract] OR "tuvalu"[Title/Abstract] OR "ukraine"[Title/Abstract] OR
 "uzbekistan"[Title/Abstract] OR "vanuatu"[Title/Abstract] OR "venezuela"[Title/Abstract] OR
 "vietnam"[Title/Abstract] OR "yemen"[Title/Abstract]) AND ("active safety
 surveillance"[Title/Abstract] OR "pharmacovigilance"[MeSH Terms] OR
 "pharmacovigilance"[Title/Abstract] OR "vaccine safety"[MeSH Terms] OR "vaccine
 safety"[Title/Abstract] OR "drug safety"[MeSH Terms] OR "drug safety"[Title/Abstract] OR
 "medicine safety"[Title/Abstract] OR "vaccine monitoring"[Title/Abstract] OR "immunization safety
 surveillance"[Title/Abstract] OR "product surveillance"[Title/Abstract] OR "post-marketing
 surveillance"[MeSH Terms] OR "post-marketing surveillance"[Title/Abstract] OR "sentinel
 surveillance"[Title/Abstract] OR "vigibase"[Title/Abstract] OR "cohort event
 monitoring"[Title/Abstract] OR "prospective cohort studies"[Title/Abstract] OR "pregnancy exposure
 registries"[Title/Abstract] OR "targeted spontaneous reporting"[Title/Abstract] OR "enhanced
 spontaneous reporting"[Title/Abstract] OR "indepth network"[Title/Abstract] OR "vaccine safety
 net"[Title/Abstract] OR "health demographic surveillance system"[Title/Abstract] OR "vaccine
 safety datalink"[Title/Abstract] OR "dhis2"[Title/Abstract] OR "vigibase"[Title/Abstract] OR
 "vigiflow"[Title/Abstract] OR "eudravigilance"[Title/Abstract] OR "who global individual case safety
 reports"[Title/Abstract] OR "medwatch"[Title/Abstract] OR "mymeds"[Title/Abstract] OR
 "vigilyze"[Title/Abstract] OR "saferx"[Title/Abstract] OR "yellow card app"[Title/Abstract] OR
 "medsafety app"[Title/Abstract] OR "vaccine associated disease"[Title/Abstract] OR "adverse
 effect"[MeSH Terms] OR "adverse effect"[Title/Abstract] OR "adverse event"[MeSH Terms] OR
 "adverse event"[Title/Abstract] OR "side effect"[MeSH Terms] OR "side effect"[Title/Abstract] OR
 "adverse event following immunization"[MeSH Terms] OR "adverse event following
 immunization"[Title/Abstract] OR "adverse event* of special interest"[Title/Abstract] OR
 "AEFI*"[Title/Abstract] OR "adverse event* following immunization"[Title/Abstract] OR
 "AESI*"[Title/Abstract]) AND ("2013"[dp] OR "2014"[dp] OR "2015"[dp] OR "2016"[dp] OR "2017"[dp]
 "2018"[dp] OR "2019"[dp] OR "2020"[dp] OR "2021"[dp] OR "2022"[dp] OR "2023"[dp] OR "2024"[dp] OR
 "2025"[dp]))

- **Web of Science:**

TS=("low income country" OR "low-income economy" OR "low-income economy country"
 OR "low and middle income country" OR "low and middle income countr*"
 OR "developing count*" OR "developing country" OR "underdeveloped country"
 OR "resource-limited setting" OR "low-resource setting" OR "LMICs"
 OR "low-income nations" OR "middle-income nations" OR "developing economies"
 OR "emerging economies" OR "resource-poor countries" OR "low-resource countries"
 OR "developing settings" OR "afghanistan" OR "albania" OR "argentina" OR "armenia" OR
 "azerbaijan"
 OR "bangladesh" OR "belarus" OR "belize" OR "bhutan" OR "bolivia" OR "bosnia and herzegovina"
 OR "brazil" OR "cambodia" OR "china" OR "colombia" OR "costa rica" OR "cuba"

OR "dominica" OR "dominican republic" OR "ecuador" OR "el salvador" OR "fiji"
 OR "georgia" OR "grenada" OR "guatemala" OR "guyana" OR "haiti" OR "honduras"
 OR "india" OR "indonesia" OR "iran" OR "iraq" OR "jamaica" OR "jordan"
 OR "kazakhstan" OR "kiribati" OR "kosovo" OR "kyrgyzstan" OR "laos" OR "lebanon"
 OR "north macedonia" OR "malaysia" OR "maldives" OR "marshall islands" OR "mexico"
 OR "micronesia" OR "moldova" OR "mongolia" OR "montenegro" OR "myanmar" OR "nepal"
 OR "nicaragua" OR "pakistan" OR "panama" OR "papua new guinea" OR "paraguay"
 OR "peru" OR "philippines" OR "samoa" OR "sao tome and principe" OR "serbia"
 OR "solomon islands" OR "sri lanka" OR "saint lucia" OR "saint vincent and the grenadines"
 OR "suriname" OR "syrian arab republic" OR "tajikistan" OR "thailand" OR "timor-leste"
 OR "tonga" OR "turkey" OR "turkmenistan" OR "tuvalu" OR "ukraine" OR "uzbekistan"
 OR "vanuatu" OR "venezuela" OR "vietnam" OR "yemen" OR "africa" OR "algeria"
 OR "angola" OR "benin" OR "botswana" OR "burkina faso" OR "burundi" OR "cameroon"
 OR "cape verde" OR "central african republic" OR "chad" OR "comoros" OR "congo"
 OR "democratic republic of congo" OR "djibouti" OR "egypt" OR "eritrea" OR "ethiopia"
 OR "gabon" OR "gambia" OR "ghana" OR "guinea" OR "kenya" OR "lesotho" OR "liberia"
 OR "madagascar" OR "malawi" OR "mali" OR "mauritania" OR "morocco" OR "mozambique"
 OR "namibia" OR "niger" OR "nigeria" OR "rwanda" OR "senegal" OR "seychelles"
 OR "sierra leone" OR "somalia" OR "sudan" OR "tanzania" OR "togo" OR "tunisia"
 OR "uganda" OR "zambia" OR "zimbabwe")
 AND TS=("active safety surveillance" OR "vaccine safety" OR "vaccine monitoring"
 OR "immunization safety surveillance" OR "post-marketing surveillance" OR "cohort event
 monitoring" OR "pregnancy exposure registries" OR "sentinel surveillance" OR "vaccine adverse
 event monitoring" OR "safety signal detection" OR "enhanced spontaneous reporting" OR "targeted
 spontaneous reporting" OR "prospective cohort")
 AND TS=("adverse effect" OR "adverse event" OR "side effect" OR "adverse events following
 immunization"
 OR "vaccine adverse event" OR "adverse drug reaction" OR "vaccine-associated adverse event"
 OR "medication adverse effects" OR "vaccine-related complications" OR "vaccine-associated
 enhanced disease"
 OR "adverse events of special interest" OR "AESI" OR "AEFI")