Appendix I: Search strategy

Database: MEDLINE
Platform: OVID
Date of search: July 17, 2026

1	exp Mastectomy/ or exp Mastectomy, Radical/ or ((breast? adj3 (amputat* or excision? or extirpat* or remov* or resection? or resected or segmentectom*)) or mammectom* or mastectom* or postmastectom* or postmammectom* or quadrantectom*).ti,ab,kf.	57787
2	Analgesia/ or Pain Management/ or Postoperative Pain/ or ((analg?esic? adj3 (control* or intervention? or management or relief or therap* or treatment?)) or analg?esia or antinociceptive or (multimodal adj3 (analg?esia or therap*)) or ("multi modal" adj3 (analg?esia or therap*)) or (pain adj4 (control* or intervention? or management or relief or therap* or treatment?)) or ((regional or conduction) adj2 (an?esthesia or an?esthetic?)) or "sequential analgetic analg?esia" or (analg?esia adj2 (surgical or systemic))).ti,ab,kf.	341641
3	exp Postoperative Period/ or ((after adj2 (surger* or surgical or operation? or procedure?)) or (following adj2 (surger* or surgical or operation? or procedure?)) or "post op" or postop or "post operative" or postoperative or postsurger* or "post surger*" or postsurgical or "post surgical").ti,ab,kf.	1234951
4	1 and 2 and 3	**1261**

Database: EMBASE
Platform: OVID
Date of search: July 17, 2026

1	exp mastectomy/ or exp partial mastectomy/ or exp radical mastectomy/ or exp skin-sparing mastectomy/ or ((breast? adj3 (amputat* or excision? or extirpat* or remov* or resection? or resected or segmentectom*)) or mammectom* or mastectom* or postmastectom* or postmammectom* or quadrantectom*).ti,ab,kf.	100928

2	exp analgesia/ or exp multimodal analgesia/ or exp postoperative pain/ or ((analg?esic? adj3 (control* or intervention? or management or relief or therap* or treatment?)) or analg?esia or antinociceptive or (multimodal adj3 (analg?esia or therap*)) or ("multi modal" adj3 (analg?esia or therap*)) or (pain adj4 (control* or intervention? or management or relief or therap* or treatment?)) or ((regional or conduction) adj2 (an?esthesia or an?esthetic?)) or "sequential analgetic analg?esia" or (analg?esia adj2 (surgical or systemic))).ti,ab,kf.	582532
3	exp postoperative period/ or ((after adj2 (surger* or surgical or operation? or procedure?)) or (following adj2 (surger* or surgical or operation? or procedure?)) or "post op" or postop or "post operative" or postoperative or postsurger* or "post surger*" or postsurgical or "post surgical").ti,ab,kf.	2186783
4	1 and 2 and 3	3225

Database: CINAHL
Platform: EBSCO
Date of search: July 17, 2026

S#	Query (user-entered)	Results (count)	Search Mode	Expander(s)
S1	MH "Mastectomy+" or OR TI (((breast# N3 (amputat* OR excision# OR extirpat* OR remov* OR resection# OR resected OR segmentectom*)) OR mammectom* OR mastectom* OR postmastectom* OR postmammectom* OR quadrantectom*)) OR AB (((breast# N3 (amputat* OR excision# OR extirpat* OR remov* OR resection# OR resected OR segmentectom*)) OR mammectom* OR mastectom* OR postmastectom* OR postmammectom* OR quadrantectom*)) OR SU (((breast# N3 (amputat* OR excision# OR extirpat* OR remov* OR resection# OR resected OR segmentectom*)) OR mammectom* OR mastectom* OR postmastectom* OR postmammectom* OR quadrantectom*))	10856	Find all my search terms	Apply equivalent subjects

S2	(MH "Analgesia+" or MH "Pain Management" or MH "Postoperative Pain") OR TI (((analg#esic# N3 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR analg#esia OR antinociceptive OR (multimodal N3 (analg#esia OR therap*)) OR ("multi modal" N3 (analg#esia OR therap*)) OR (pain N4 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR ((regional OR conduction) N2 (an#esthesia OR an#esthetic#)) OR "sequential analgetic analg#esia" OR (analg#esia N2 (surgical OR systemic)))) OR AB (((analg#esic# N3 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR analg#esia OR antinociceptive OR (multimodal N3 (analg#esia OR therap*)) OR ("multi modal" N3 (analg#esia OR therap*)) OR (pain N4 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR ((regional OR conduction) N2 (an#esthesia OR an#esthetic#)) OR "sequential analgetic analg#esia" OR (analg#esia N2 (surgical OR systemic)))) OR SU (((analg#esic# N3 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR analg#esia OR antinociceptive OR (multimodal N3 (analg#esia OR therap*)) OR ("multi modal" N3 (analg#esia OR therap*)) OR (pain N4 (control* OR intervention# OR management OR relief OR therap* OR treatment#)) OR ((regional OR conduction) N2 (an#esthesia OR an#esthetic#)) OR "sequential analgetic analg#esia" OR (analg#esia N2 (surgical OR systemic))))	189773	Find all my search terms	Apply equivalent subjects

S3	MH "Postoperative Period" OR TI (((after N2 (surger* OR surgical OR operation# OR procedure#)) OR (following N2 (surger* OR surgical OR operation# OR procedure#)) OR "post op" OR postop OR "post operative" OR postoperative OR postsurger* OR "post surger*" OR postsurgical OR "post surgical")) OR AB (((after N2 (surger* OR surgical OR operation# OR procedure#)) OR (following N2 (surger* OR surgical OR operation# OR procedure#)) OR "post op" OR postop OR "post operative" OR postoperative OR postsurger* OR "post surger*" OR postsurgical OR "post surgical")) OR SU (((after N2 (surger* OR surgical OR operation# OR procedure#)) OR (following N2 (surger* OR surgical OR operation# OR procedure#)) OR "post op" OR postop OR "post operative" OR postoperative OR postsurger* OR "post surger*" OR postsurgical OR "post surgical"))	309991	Find all my search terms	Apply equivalent subjects
S4	(S3) AND (S2) AND (S1)	526	Find all my search terms	Apply equivalent subjects

Database: ClinicalTrials.gov
Platform: Web; managed by NLM/NIH
Date of search: July 20, 2026

Search string	Results
(mastectomy or mammectomy) and post operative pain	383