**Search Strategy Report:**

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**Search Peer Reviewed by:** Sarah Cantrell, MLIS; Duke University Medical Center Library, Duke University School of Medicine

**Date of completed search:** May 12, 2021

**Total number of results (before de-duplication):** 10867

**Total number of results (after de-duplication):** 4641

Database: MEDLINE (via PubMed)

| Step | Search Terms                                                                 | Results |
|------|------------------------------------------------------------------------------|---------|
| 1    | "Breast Implants"[Mesh] OR "Mammaplasty"[Mesh] OR mammoplasty[tiab] OR mammoplasties[tiab] OR Mastopexy[tiab] OR Mastopexies[tiab] | 17767   |
| 2    | "Breast"[Mesh] OR breast[tiab] OR breasts[tiab] OR mammary[tiab] OR mammaries[tiab] OR nipple[tiab] OR nipples[tiab] OR areola[tiab] OR areolae[tiab] | 516805  |
| 3    | "Reconstructive Surgical Procedures"[Mesh] OR "Prostheses and Implants"[Mesh] OR "Surgical Flaps"[Mesh] OR augmentation[tiab] OR augmentations[tiab] OR reconstruction[tiab] OR reconstructions[tiab] OR reconstructed[tiab] OR reconstructing[tiab] OR reconstructive[tiab] OR reconstruct[tiab] OR removal[tiab] OR removals[tiab] OR implant[tiab] OR implants[tiab] OR implanting[tiab] OR implanted[tiab] OR endoprosthesis[tiab] OR endoprostheses[tiab] OR repair[tiab] OR repairs[tiab] OR repairing[tiab] OR repaired[tiab] OR reshape[tiab] OR reshap[tiab] OR reshap[tiab] OR revision[tiab] OR revisions[tiab] OR revising[tiab] OR revised[tiab] OR "skin flap"[tiab] OR "skin flaps"[tiab] OR "surgical flap"[tiab] OR "surgical flaps"[tiab] | 3031451 |
| 4    | 2 AND 3                                                                     | 66758   |
| 5    | 1 OR 4                                                                      | 6890    |
| 6    | "Clinical Decision Rules"[Mesh] OR "Algorithms"[Mesh] OR "Validation Studies as Topic"[Mesh] OR "Validation Study" [Publication Type] OR "Reproducibility of Results"[Mesh] OR "Predictive Value of Tests"[Mesh] OR "Observer Variation"[Mesh] OR calculator[tiab] OR calculators[tiab] | 5398033 |
| Expression                                                                 | Count          |
|---------------------------------------------------------------------------|----------------|
| 'breast reconstruction'/exp OR (mammaplasty OR mammaplasties OR Mastopexy OR Mastopexies):ti,ab | 25303          |
| 'breast'/exp OR (breast OR breasts OR mammary OR mammaries OR nipple OR nipples OR areola OR areolae):ti,ab | 729346         |
| 'reconstructive surgery'/exp OR 'prostheses and orthoses'/exp OR 'surgical flaps'/exp OR (augmentation OR augmentations OR augmented OR reduction OR reductions OR reconstruction OR reconstructions OR reconstructed OR reconstructing OR reconstructive OR reconstruct OR removal OR implant OR implants OR implanting OR implanted OR endoprosthesis OR endoprostheses OR repair OR repairs OR repairing OR repaired OR reshape OR reshapes OR reshaping OR reshaped OR revision OR revisions OR revising OR revised OR "skin flap" OR "skin flaps" OR "surgical flap" OR "surgical flaps"):ti,ab | 3714276         |
| 2 AND 3                                                                  | 93174          |
| 1 OR 4                                                                   | 98670          |
| 'clinical decision rule'/exp OR 'algorithm'/exp OR 'validation study'/exp OR 'reproducibility'/exp OR 'predictive value'/exp OR 'observer variation'/exp OR (calculator OR calculators OR calculation OR calculations OR model OR models OR algorithm OR algorithms OR algorithmic OR score OR scores OR "scoring system" OR "scoring systems" OR validation OR validate* OR prognostic OR prognostication OR prediction OR predictive OR "decision rule" OR "decision rules"):ti,ab | 6891974         |

Database: Embase (Elsevier)

| Calculation                                                                 | Count          |
|---------------------------------------------------------------------------|----------------|
| calculation[tiab] OR calculations[tiab] OR model[tiab] OR models[tiab] OR algorithm[tiab] OR algorithms[tiab] OR algorithmic[tiab] OR score[tiab] OR scores[tiab] OR "scoring system"[tiab] OR "scoring systems"[tiab] OR validation[tiab] OR validate*[tiab] OR prognostic[tiab] OR prognostication[tiab] OR prediction[tiab] OR predictive[tiab] OR "decision rule"[tiab] OR "decision rules"[tiab] | 2778758         |
| "Risk Assessment"[Mesh] OR "Risk Factors"[Mesh] OR risk[tiab] OR risks[tiab] | 3856           |
| NOT (animals[mh] NOT humans[mh])                                           | 3771           |
| 'breast reconstruction'/exp OR (mammaplasty OR mammaplasties OR Mastopexy OR Mastopexies):ti,ab | 25303          |
| 'breast'/exp OR (breast OR breasts OR mammary OR mammaries OR nipple OR nipples OR areola OR areolae):ti,ab | 729346         |
| 'reconstructive surgery'/exp OR 'prostheses and orthoses'/exp OR 'surgical flaps'/exp OR (augmentation OR augmentations OR augmented OR reduction OR reductions OR reconstruction OR reconstructions OR reconstructed OR reconstructing OR reconstructive OR reconstruct OR removal OR implant OR implants OR implanting OR implanted OR endoprosthesis OR endoprostheses OR repair OR repairs OR repairing OR repaired OR reshape OR reshapes OR reshaping OR reshaped OR revision OR revisions OR revising OR revised OR "skin flap" OR "skin flaps" OR "surgical flap" OR "surgical flaps"):ti,ab | 3714276         |
| 2 AND 3                                                                  | 93174          |
| 1 OR 4                                                                   | 98670          |
| 'clinical decision rule'/exp OR 'algorithm'/exp OR 'validation study'/exp OR 'reproducibility'/exp OR 'predictive value'/exp OR 'observer variation'/exp OR (calculator OR calculators OR calculation OR calculations OR model OR models OR algorithm OR algorithms OR algorithmic OR score OR scores OR "scoring system" OR "scoring systems" OR validation OR validate* OR prognostic OR prognostication OR prediction OR predictive OR "decision rule" OR "decision rules"):ti,ab | 6891974         |
| Step | Query                                                                                                                                  | Results |
|------|----------------------------------------------------------------------------------------------------------------------------------------|---------|
| 7    | 'risk assessment'/exp OR 'risk factor'/exp OR (risk OR risks):ti,ab                                                                    | 3894834 |
| 8    | 5 AND 6 AND 7                                                                                                                         | 6239    |
| 9    | 8 NOT ([conference abstract]/lim OR 'conference abstract'/exp OR 'conference abstract'/it)                                             | 3761    |

**Database: Scopus (Elsevier)**

| Step | Query                                                                                                                                  | Results |
|------|----------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1    | TITLE-ABS(mammaplasty OR mammaplasties OR Mastopexy OR Mastopexies)                                                                    | 3617    |
| 2    | TITLE-ABS(breast OR breasts OR mammary OR mammaries OR nipple OR nipples OR areola OR areolae)                                        | 625136  |
| 3    | TITLE-ABS(augmentation OR augmentations OR augmented OR reduction OR reductions OR reconstruction OR reconstructions OR reconstructed OR reconstructing OR reconstructive OR reconstr OR removal OR removals OR implant OR implants OR implanting OR implanted OR endoprosthesis OR endoprostheses OR repair OR repairs OR repairing OR repaired OR reshape OR reshap OR reshaping OR reshaped OR revision OR revisions OR revising OR revised OR "skin flap" OR "skin flaps" OR "surgical flap" OR "surgical flaps") | 5672529 |
| 4    | 2 AND 3                                                                                                                               | 75708   |
| 5    | 1 OR 4                                                                                                                                | 76835   |
| 6    | TITLE-ABS(calculator OR calculators OR calculation OR calculations OR model OR models OR algorithm OR algorithms OR algorithmic OR score OR scores OR "scoring system" OR "scoring systems" OR validation OR validate* OR prognostic OR prognostication OR prediction OR predictive OR "decision rule" OR "decision rules") | 16479611|
| 7    | TITLE-ABS(risk OR risks)                                                                                                             | 3433601 |
| 8    | 5 AND 6 AND 7                                                                                                                         | 3610    |
| 9    | Selected Article Type: Article, Review                                                                                                | 3335    |