**Suppl 1.** Full search strategies (searches performed 21 December 2021, updated 24 February 2023).

**Embase (Embase.com, Elsevier)**

|  |  |  |
| --- | --- | --- |
| **No.** | **Query** | **Results** |
| #1 | 'stomach tube'/de OR 'gastrostomy tube\*' OR 'gastric tube\*' OR 'stomach tube\*' OR 'g tube\*' OR 'gastrostomy catheter\*' OR ((peg OR prg OR rig OR 'feeding tube\*' OR 'feeding tube'/exp) AND (gastrostom\* OR 'gastrostomy'/exp)) | 21578 |
| #2 | (endoscop\* NEAR/8 gastrostom\*) OR 'percutaneous endoscopic gastrostom\*' OR 'peg' OR 'percutaneous endoscopic gastrostomy tube'/exp | 79060 |
| #3 | radiologic\* OR fluoroscop\* OR prg OR 'percutaneous radiographic gastrostom\*' OR 'interventional radiolog\*' OR 'radiologically inserted gastrostom\*' OR rig OR 'percutaneous radiologic gastrostomy'/exp OR 'percutaneous radiological gastrostomy'/exp OR 'fluoroscopy'/exp OR 'interventional radiology'/exp | 624193 |
| #4 | placement OR placed OR placing OR insert\* OR guided | 1196255 |
| #5 | #1 AND #2 AND #3 AND #4 | 641 |
| #6 | #5 NOT ([animals]/lim NOT [humans]/lim) | 634 |
| #7 | #6 NOT ('conference review'/it OR 'editorial'/it OR 'letter'/it OR 'note'/it OR 'review'/it OR 'short survey'/it OR 'tombstone'/it OR 'case report'/de OR 'meta analysis'/de OR 'meta analysis topic'/de OR 'practice guideline'/de OR 'systematic review'/de OR 'systematic review topic'/de) | 422 |

**MEDLINE (PubMed, National Center for Biotechnology Information, National Library of Medicine)**

|  |  |  |
| --- | --- | --- |
| **Search number** | **Query** | **Results** |
| 1 | gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR (("PEG" OR "PRG" OR "RIG" OR feeding-tube\* OR "Intubation, Gastrointestinal"[Mesh] OR "Enteral Nutrition"[Mesh]) AND ("Gastrostomy"[Mesh] OR gastrostom\*)) | 11,745 |
| 2 | (endoscop\* AND (gastrostom\* OR gastrostomy[mesh])) OR percutaneous-endoscopic-gastrostom\* OR "PEG" | 54,730 |
| 3 | "PRG" OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR "RIG" OR (("Fluoroscopy"[Mesh] OR fluoroscop\* OR radiologic\* OR "Radiography, Interventional"[Mesh]) AND (gastrostom\* OR gastrostomy[mesh])) | 56,875 |
| 4 | placement OR placed OR placing OR insert\* OR guided | 1,548,894 |
| 5 | #1 AND #2 AND #3 AND #4 | 313 |
| 6 | #5 NOT ("animals"[mesh] NOT "humans"[mesh]) | 308 |
| 7 | #6 NOT ("case reports"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] OR "guideline"[Publication Type] OR "introductory journal article"[Publication Type] OR "meta analysis"[Publication Type] OR "news"[Publication Type] OR "retracted publication"[Publication Type] OR "review"[Publication Type] OR "systematic review"[Publication Type]) | 204 |

**Cochrane Central Register of Controlled Trials (CochraneLibrary.com platform, Wiley, Issue 12 of 12, December 2021)**

|  |  |  |
| --- | --- | --- |
| **ID** | **Search** | **Hits** |
| #1 | gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR (("PEG" OR "PRG" OR "RIG" OR feeding-tube\* OR [mh "Intubation, Gastrointestinal"] OR [mh "Enteral Nutrition"]) AND ([mh "Gastrostomy"] OR gastrostom\*)) | 1524 |
| #2 | (endoscop\* AND (gastrostom\* OR [mh gastrostomy])) OR percutaneous-endoscopic-gastrostom\* OR "PEG" | 6206 |
| #3 | PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR "RIG" OR (([mh "Fluoroscopy"] OR fluoroscop\* OR radiologic\* OR [mh "Radiography, Interventional"]) AND (gastrostom\* OR [mh gastrostomy])) | 2633 |
| #4 | placement OR placed OR placing OR insert\* OR guided | 96244 |
| #5 | #1 AND #2 AND #3 AND #4 | 39 |
|  | Trials matching "#5 - #1 AND #2 AND #3 AND #4"  | 25 |

**Web of Science Core Collection (Web of Science Platform, Clarivate, Editions = Arts & Humanities Citation Index, Emerging Sources Citation Index [previous 5 years], Conference Proceedings Citation Index, Science Citation Index-EXPANDED , and Social Science Citation Index)**

|  |  |  |
| --- | --- | --- |
| 1 | TI=(gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR ((PEG OR PRG OR RIG OR feeding-tube\*) AND gastrostom\*) ) OR AB=(gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR ((PEG OR PRG OR RIG OR feeding-tube\*) AND gastrostom\*) ) OR AK=(gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR ((PEG OR PRG OR RIG OR feeding-tube\*) AND gastrostom\*) )  | 26588 |
| 2 | TI=((endoscop\* NEAR/8 gastrostom\*) OR percutaneous-endoscopic-gastrostom\* OR "PEG") OR AB=((endoscop\* NEAR/8 gastrostom\*) OR percutaneous-endoscopic-gastrostom\* OR "PEG" ) OR AK=((endoscop\* NEAR/8 gastrostom\*) OR percutaneous-endoscopic-gastrostom\* OR "PEG")  | 139869 |
| 3 | TI=(radiologic\* OR fluoroscop\* OR PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR RIG ) OR AB=(radiologic\* OR fluoroscop\* OR PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR RIG ) OR AK=(radiologic\* OR fluoroscop\* OR PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR RIG )  | 405656 |
| 4 | TI=(placement OR placed OR placing OR insert\* OR guided ) OR AB=(placement OR placed OR placing OR insert\* OR guided ) OR AK=(placement OR placed OR placing OR insert\* OR guided )  | 13754131 |
| 5 | #4 AND #3 AND #2 AND #1  | 267 |
| 6 | #4 AND #3 AND #2 AND #1 and Review Article or Editorial Material or Letter (Exclude – Document Types)  | 225 |
| 9 | #4 AND #3 AND #2 AND #1 and Review Article or Editorial Material or Letter (Exclude – Document Types) and Web of Science Core Collection (Database)  | 191 |

**Korean Citation Index (Web of Science Platform, Clarivate)**

|  |  |
| --- | --- |
| **Search** | **Results** |
| gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR ((PEG OR PRG OR RIG OR feeding-tube\*) AND gastrostom\*) (Topic) ANDendoscop\* OR percutaneous-endoscopic-gastrostom\* OR "PEG" (Topic) ANDradiologic\* OR fluoroscop\* OR PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR RIG (Topic) ANDplacement OR placed OR placing OR insert\* OR guided (Topic) | 13 |

**SciELO Citation Index (Web of Science Platform, Clarivate)**

|  |  |
| --- | --- |
| **Search** | **Results** |
| TS=(gastrostomy-tube\* OR gastric-tube\* OR stomach-tube\* OR g-tube\* OR gastrostomy-catheter\* OR ((PEG OR PRG OR RIG OR feeding-tube\*) AND gastrostom\*)) AND TS=(endoscop\* OR percutaneous-endoscopic-gastrostom\* OR "PEG" ) AND TS=(radiologic\* OR fluoroscop\* OR PRG OR percutaneous-radiographic-gastrostom\* OR interventional-radiolog\* OR radiologically-inserted-gastrostom\* OR RIG) AND TS=(placement OR placed OR placing OR insert\* OR guided) | 5 |

**Global Index Medicus (World Health Organization)**

|  |  |
| --- | --- |
| **Search** | **Results** |
| tw:((tw:("gastrostomy tube" OR "gastric tube" OR "stomach tube" OR "g tube" OR "gastrostomy catheter" OR (("PEG" OR "PRG" OR "RIG" OR "feeding tube") AND gastrostomy))) AND (tw:(endoscop\* OR "percutaneous endoscopic gastrostomy" OR "PEG" )) AND (tw:(radiologic\* OR fluoroscop\* OR "PRG" OR "percutaneous radiographic gastrostomy" OR "interventional radiology" OR "radiologically inserted gastrostomy" OR "RIG")) AND (tw:("placement" OR "placed" OR "placing" OR "insert" OR "guided"))) | 12 |