**Supplemental Table 1** Search term and results from databases

|  |
| --- |
| Embase (1652) |
| #1 'hepatic resection'/exp OR 'hepatic resection' OR (hepatic AND ('resection'/exp OR resection)) 187438  #2 'hepatectomy'/exp OR hepatectomy 74849  #3 'partial hepatectomy'/exp OR 'partial hepatectomy' 13038  #4 'liver resection'/exp OR 'liver resection' OR (('liver'/exp OR liver) AND ('resection'/exp OR resection)) 479432  #5 'liver surgery'/exp OR 'liver surgery' OR (('liver'/exp OR liver) AND ('surgery'/exp OR surgery)) 585656  #6 'trans-arterial embolization' OR ('trans arterial' AND ('embolization'/exp OR embolization)) 1295  #7 'radiofrequency ablation'/exp OR 'radiofrequency ablation' 52415  #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 642845  #9 'branched chain amino acid'/exp OR 'branched chain amino acid' 84971  #10 #8 AND #9 1652 |
| PubMed (976) |
| #1 "hepatic resection"[All Fields] 7129  #2 "hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "hepatectomies"[All Fields] 43435  #3 "hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR ("liver"[All Fields] AND "resection"[All Fields]) OR "liver resection"[All Fields] 68712  #4 "hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "liver resection"[All Fields] 47376  #5 ("liver"[MeSH Terms] OR "liver"[All Fields] OR "livers"[All Fields] OR "liver s"[All Fields]) AND ("surgery"[MeSH Subheading] OR "surgery"[All Fields] OR "surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "general surgery"[MeSH Terms] OR ("general"[All Fields] AND "surgery"[All Fields]) OR "general surgery"[All Fields] OR "surgery s"[All Fields] OR "surgerys"[All Fields] OR "surgeries"[All Fields]) 308435  #6 "trans-arterial"[All Fields] AND ("embol"[All Fields] OR "embolics"[All Fields] OR "embolisations"[All Fields] OR "embolise"[All Fields] OR "embolised"[All Fields] OR "embolising"[All Fields] OR "embolism"[MeSH Terms] OR "embolism"[All Fields] OR "embolic"[All Fields] OR "embolisms"[All Fields] OR "embolization, therapeutic"[MeSH Terms] OR ("embolization"[All Fields] AND "therapeutic"[All Fields]) OR "therapeutic embolization"[All Fields] OR "embolisation"[All Fields] OR "embolization"[All Fields] OR "embolizations"[All Fields] OR "embolize"[All Fields] OR "embolized"[All Fields] OR "embolizes"[All Fields] OR "embolizing"[All Fields]) 484  #7 "radiofrequency ablation"[MeSH Terms] OR ("radiofrequency"[All Fields] AND "ablation"[All Fields]) OR "radiofrequency ablation"[All Fields] 49701  #8 "hepatic resection"[All Fields] OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "hepatectomies"[All Fields]) OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR ("liver"[All Fields] AND "resection"[All Fields]) OR "liver resection"[All Fields]) OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "liver resection"[All Fields]) OR (("liver"[MeSH Terms] OR "liver"[All Fields] OR "livers"[All Fields] OR "liver s"[All Fields]) AND ("surgery"[MeSH Subheading] OR "surgery"[All Fields] OR "surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "general surgery"[MeSH Terms] OR ("general"[All Fields] AND "surgery"[All Fields]) OR "general surgery"[All Fields] OR "surgery s"[All Fields] OR "surgerys"[All Fields] OR "surgeries"[All Fields])) OR ("trans-arterial"[All Fields] AND ("embol"[All Fields] OR "embolics"[All Fields] OR "embolisations"[All Fields] OR "embolise"[All Fields] OR "embolised"[All Fields] OR "embolising"[All Fields] OR "embolism"[MeSH Terms] OR "embolism"[All Fields] OR "embolic"[All Fields] OR "embolisms"[All Fields] OR "embolization, therapeutic"[MeSH Terms] OR ("embolization"[All Fields] AND "therapeutic"[All Fields]) OR "therapeutic embolization"[All Fields] OR "embolisation"[All Fields] OR "embolization"[All Fields] OR "embolizations"[All Fields] OR "embolize"[All Fields] OR "embolized"[All Fields] OR "embolizes"[All Fields] OR "embolizing"[All Fields])) OR ("radiofrequency ablation"[MeSH Terms] OR ("radiofrequency"[All Fields] AND "ablation"[All Fields]) OR "radiofrequency ablation"[All Fields]) 361079  #9 "amino acids, branched chain"[MeSH Terms] OR ("amino"[All Fields] AND "acids"[All Fields] AND "branched chain"[All Fields]) OR "branched-chain amino acids"[All Fields] OR ("branched"[All Fields] AND "chain"[All Fields] AND "amino"[All Fields] AND "acid"[All Fields]) OR "branched chain amino acid"[All Fields] 60249  #10 ("hepatic resection"[All Fields] OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "hepatectomies"[All Fields]) OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR ("liver"[All Fields] AND "resection"[All Fields]) OR "liver resection"[All Fields]) OR ("hepatectomy"[MeSH Terms] OR "hepatectomy"[All Fields] OR "liver resection"[All Fields]) OR (("liver"[MeSH Terms] OR "liver"[All Fields] OR "livers"[All Fields] OR "liver s"[All Fields]) AND ("surgery"[MeSH Subheading] OR "surgery"[All Fields] OR "surgical procedures, operative"[MeSH Terms] OR ("surgical"[All Fields] AND "procedures"[All Fields] AND "operative"[All Fields]) OR "operative surgical procedures"[All Fields] OR "general surgery"[MeSH Terms] OR ("general"[All Fields] AND "surgery"[All Fields]) OR "general surgery"[All Fields] OR "surgery s"[All Fields] OR "surgerys"[All Fields] OR "surgeries"[All Fields])) OR ("trans-arterial"[All Fields] AND ("embol"[All Fields] OR "embolics"[All Fields] OR "embolisations"[All Fields] OR "embolise"[All Fields] OR "embolised"[All Fields] OR "embolising"[All Fields] OR "embolism"[MeSH Terms] OR "embolism"[All Fields] OR "embolic"[All Fields] OR "embolisms"[All Fields] OR "embolization, therapeutic"[MeSH Terms] OR ("embolization"[All Fields] AND "therapeutic"[All Fields]) OR "therapeutic embolization"[All Fields] OR "embolisation"[All Fields] OR "embolization"[All Fields] OR "embolizations"[All Fields] OR "embolize"[All Fields] OR "embolized"[All Fields] OR "embolizes"[All Fields] OR "embolizing"[All Fields])) OR ("radiofrequency ablation"[MeSH Terms] OR ("radiofrequency"[All Fields] AND "ablation"[All Fields]) OR "radiofrequency ablation"[All Fields])) AND ("amino acids, branched chain"[MeSH Terms] OR ("amino"[All Fields] AND "acids"[All Fields] AND "branched chain"[All Fields]) OR "branched-chain amino acids"[All Fields] OR ("branched"[All Fields] AND "chain"[All Fields] AND "amino"[All Fields] AND "acid"[All Fields]) OR "branched chain amino acid"[All Fields]) 976 |
| Cochrane CENTRAL (65) |
| #1 MeSH descriptor: [Hepatectomy] explode all trees 1274  #2 hepatectomy 2158  #3 "hepatic resection" 549  #4 liver resection 4207  #5 liver surgery 12998  #6 trans-arterial embolization 40  #7 MeSH descriptor: [Radiofrequency Ablation] explode all trees 2372  #8 radiofrequency ablation 3759  #9 MeSH descriptor: [Amino Acids, Branched-Chain] explode all trees 2514  #10 branched chain amino acid 805  #11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 18806  #12 #9 OR #10 3028  #13 #11 AND #12 65 |