**Supplementary Material**

**The safety of laparoscopic cholecystectomy in day surgery unit comparing with that in the inpatient unit: a systematic review and meta-analysis**



Figure s1. Risk of bias summary and risk of bias graph.

**Supplementary S2. Search strategy for The safety of laparoscopic cholecystectomy in day surgery unit comparing with that in the inpatient unit: a systematic review and meta-analysis.**

**Search strategy were developed following the five “PICOS” components.**

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| PICOS-LC in day surgery unit vs. LC in the inpatient unit |
| **P** | population: patients with benign diseases of gallbladder underwent LC  |
| **I** | intervention: laparoscopic cholecystectomy (LC)  |
| **C** | comparison: day surgery unit vs. inpatient unit |
| **O**  | outcomes: Post-operative complications, post-operative nausea and vomiting (PONV) and visual analogue score (VAS), hospital stay, time to normal activity, patients’ satisfaction, readmission and cost. |
| S | study design: retrospective or prospective studies or randomized control trials |

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('cholecystectomy'/exp OR (cholecystectom\* OR (gallbladder\* NEAR/3 (remov\* OR resection\*))):ab,ti) AND ('ambulatory surgery'/exp OR 'ambulatory care'/de OR outpatient/de OR 'outpatient department'/de OR 'outpatient care'/de OR (ambulatory OR outpatient\* OR ((day) NEXT/1 (surger\* OR case OR stay OR care OR hospital\*)) OR same-day OR polyclinic\* OR poly-clinic\*):ab,ti) AND ('hospitalization'/exp OR 'hospital admission'/exp OR 'length of stay'/exp OR 'hospital patient'/exp OR 'hospital discharge'/de OR (hospitali\* OR overnight\* OR over-night\* OR ((length OR hospital OR long OR short\*) NEAR/3 stay) OR admission\* OR admitted\* OR inpatient\* OR in-patient\* OR routine OR discharge\*):ab,ti) NOT ('case report'/de OR [Conference Abstract]/lim OR [Editorial]/lim OR [Erratum]/lim OR [Letter]/lim OR [Note]/lim OR 'case report':ti) AND [English]/lim NOT ([animals]/lim NOT [humans]/lim)

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(exp Cholecystectomy/ OR (cholecystectom\* OR (gallbladder\* ADJ3 (remov\* OR resection\*))).ab,ti.) AND (Ambulatory Surgical Procedures/ OR Ambulatory Care/ OR Outpatients/ OR Ambulatory Care Facilities/ OR Outpatient Clinics, Hospital/ OR (ambulatory OR outpatient\* OR ((day) ADJ (surger\* OR case OR stay OR care OR hospital\*)) OR same-day OR polyclinic\* OR poly-clinic\*).ab,ti.) AND (Hospitalization/ OR Length of Stay/ OR Inpatients/ OR (hospitali\* OR overnight\* OR over-night\* OR ((length OR hospital OR long OR short\*) ADJ3 stay) OR admission\* OR admitted\* OR inpatient\* OR in-patient\* OR routine OR discharge\*).ab,ti.) NOT (case reports/ OR (news OR congres\* OR abstract\* OR book\* OR chapter\* OR dissertation abstract\* OR letter\* OR note OR editorial).pt. OR case report.ti.) AND english.la. NOT (exp animals/ NOT humans/)

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TS=(((cholecystectom\* OR (gallbladder\* NEAR/2 (remov\* OR resection\*)))) AND ((ambulatory OR outpatient\* OR "day surger\*" OR "day case" OR "day stay" OR "day care" OR "day hospital\*" OR "same-day" OR polyclinic\* OR poly-clinic\*)) AND ((hospitali\* OR overnight\* OR over-night\* OR ((length OR hospital OR long OR short\*) NEAR/2 stay) OR admission\* OR admitted\* OR inpatient\* OR in-patient\* OR routine ORdischarge\*))) AND DT=(article) AND LA=(english)

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((cholecystectom\* OR (gallbladder\* NEAR/3 (remov\* OR resection\*))):ab,ti) AND ((ambulatory OR outpatient\* OR ((day) NEXT/1 (surger\* OR case OR stay OR care OR hospital\*)) OR same next day OR polyclinic\* OR poly next clinic\*):ab,ti) AND ((hospitali\* OR overnight\* OR over next night\* OR ((length OR hospital OR long OR short\*) NEAR/3 stay) OR admission\* OR admitted\* OR inpatient\* OR in next patient\* OR routine OR discharge\*):ab,ti)

**Google scholar**

cholecystectomy|"gallbladder removal|resection" ambulatory|outpatient|"day surgery|case|stay|care|hospital"|"same-day"|polyclinic hospitalization|overnight|admission|inpatient|discharge