**Appendix 1; Search Strategy**

For Ovid Medline (1946-):

1     Hepatectomy/ae, co, is, mt [Adverse Effects, Complications, Instrumentation, Methods]
2     Thoracoscopy/ae, co, is, mt [Adverse Effects, Complications, Instrumentation, Methods]
3     Thoracic Surgery, Video-Assisted/ae, is, mt [Adverse Effects, Instrumentation, Methods]
4     hepatectom\*.ti,ab,kf.
5     ((surgery or surgical or thoracic or thorascop\*) adj3 liver).ti,ab,kf.
6     1 or 2 or 3 or 4 or 5
7     (transthoracic or trans-thoracic).ti,ab,kf.
8     (transdiaphragmatic or trans-diaphragmatic).ti,ab,kf.
9     (intercostal or inter-costal).ti,ab,kf.
10   7 or 8 or 9
11   6 and 10

For Ovid Embase (1974- ):

1     exp liver resection/
2     thoracoscopy/
3     laparoscopy/
4     video assisted thoracoscopic surgery/
5     hepatectom\*.ti,ab,kw.
6     ((surgery or surgical or thoracic or thoracoscop\*) adj3 liver).ti,ab,kw.
7     (transdiaphragmatic or trans-diaphragmatic).ti,ab,kw.
8     (transthoracic or trans-thoracic).ti,ab,kw.
9     (intercostal or inter-costal).ti,ab,kw.
10   1 or 2 or 3 or 4 or 5 or 6
11   7 or 8 or 9
12   10 and 11

For Web of science:

1. ((liver or hepatic) SAME (resection\* or segmentectomy or surgery or surgical or thoracic or thorascop\*))
2. Hepatectom\*
3. 1 or 2
4. (trans$thoracic or trans$diaphragmatic or inter$costal)
5. 3 and 4

For Cochrane Central Register of Controlled Trials (CENTRAL; 2019, Issue 7)) in *The Cochrane Library*

1. MeSH descriptor: Hepatectomy/ae, co, is, mt [Adverse Effects, Complications, Instrumentation, Methods]
2. hepatectom\*

3 ((surgery or surgical or thoracic or thorascop\* or laporascop\*) NEAR (hepatic or liver)

6 1 or 2 or 3

7 (transthoracic or trans-thoracic)

8 (transdiaphragmatic or trans-diaphragmatic)

9 (intercostal or inter-costal)

10 7 or 8 or 9

10 6 and 10