Bilaga 5 till rapport
Intraoperativ kolangiografi vid kolecystektomi, rapport nr 292 (2018)
### Bilaga 5: Included health economical articles comparing intraoperative cholangiography with selective or no cholangiography.

<table>
<thead>
<tr>
<th>Author</th>
<th>Study design</th>
<th>Population</th>
<th>Intervention (I) versus control (C)</th>
<th>Incremental cost</th>
<th>Incremental effect</th>
<th>ICER</th>
<th>Study quality and transferability*</th>
<th>Further information Comments</th>
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<tr>
<td>Flum et al 2003 (12) USA</td>
<td>Decision analytic model</td>
<td>Patients who underwent LC with IOC or no IOC in Washington State between 1991-1998.</td>
<td>I: 10 000 LCs with IOC C: 10 000 LCs without IOC</td>
<td>Total incremental costs not presented Cost of IOC $122 Repair of BDI $13 612 All costs reported in USD 2000</td>
<td>Rate of BDI for cases performed with IOC = 19 per 10 000 cases Rate of BDI for cases performed without IOC = 33 per 10 000 cases</td>
<td>Routine use of IOC cost more than $390 000 per life saved and approximately $13 900 per life year saved. The cost per CBD injury avoided with IOC use is $87 143.</td>
<td>Moderate study quality Moderate transferability to Sweden</td>
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<tr>
<td>Van de Sande et al 2003 (43) Belgium</td>
<td>Retrospective register, all Belgian hospitals in 1997</td>
<td>LC and secondary BDI treatments performed on patients aged &gt;10 years</td>
<td>I: 10 595 LCs C:1 033 OCs</td>
<td>n/a All costs reported in EUR 1997 Cost uneventful operations: LC 1 721 EUR OC 2 924 EUR Cost BDI 15 335 EUR</td>
<td>n/a BDI rate: Overall 0.58% LC 0.37% OC 2.81%</td>
<td>n/a</td>
<td>Moderate study quality Moderate transferability to Sweden</td>
<td>Patients in the OC-group were statistically significant older (age 64.4 vs 56.1 years) and had more severe diseases than the LC-group Of the 26 patients with a delayed repair of BDI after LC (76.9%), an IOC was not performed during initial cholecystectomy</td>
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</table>
| Rystedt et al. 2017 (2) Sweden | Evaluation of direct and indirect costs of cholecystectomy-related BDIs and a cost-effectiveness analysis | I: 12 000 LCs with IOC (equals 100% of total LCs)  
  C: 4 800 LCs with on-demand IOC (equals 40% of total LCs) | Incremental cost (including treatment costs, loss of production and IOC cost)  
  1 098 246 EUR  
  All costs reported in EUR (converted from Swedish krona by using the average exchange rate over three years, 2013–2015) | Incremental effect (QALY)  
  22 QALY | Routine use of IOC costs 49 920 EUR per QALY gained | Low study quality (with regards to the economic evaluation)  
  High transferability to Sweden  
  Assumptions in the model not transparently presented  
  Lack sensitivity analyses regarding important variables |

Reference numbers refers to the main document

* Study quality is a combined assessment of the quality of the study from a clinical as well as an economic perspective (32)

LC = Laparoscopic cholecystectomy, OC = Open Cholecystectomy, BDI = Bile Duct Injury, IOC = Intraoperative Cholangiography
References

