

## Assessment of ~~the financial aspect for~~ laparoscopic liver surgery : a single-center cost analysis

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Objective : Laparoscopic liver surgery has been worldwide popularity in last decade ,also in Thailand. In selected center ,rapidly increase laparoscopic liver surgery approaches as surgeons continue to gain experience ,the better surgical outcome has been achieved. However ,it is still unclear about cost advantages. This manuscript aim to assess the financial implications of the laparoscopic liver surgery compare to conventional operation.

Material and methods : A cross-sectional comparative study of patient under going liver surgery was performed. Data was collected between Jan 2015 and Dec 2017 , including operative cost (surgeon/anesthetic cost , cost of instrument , blood and blood component transfusion cost) , postoperative cost (hospital stay , ICU and ward admission , complication management) and overall costs.

Results : A total of 147 patients were included : 74 patients underwent open liver surgery (OLS) and 73 patients underwent laparoscopic liver surgery (LLS). For OLS mean operative costs ,postoperative and overall costs were ฿41,343 ( $p < 0.001$ ) , ฿9,370 ( $p < 0.001$ ) and ฿50,714 ( $p = 0.009$ ). Regarding LLS, the mean operative , postoperative and overall costs were ฿53,217 ( $p < 0.001$ ) , ฿6,001 ( $p < 0.001$ ) and ฿59,218 ( $p = 0.009$ ).

Conclusion : Our data support the cost advantage of the  
postoperative cost and show slightly increase operative  
and overall costs in laparoscopic liver surgery  
approaches