

***MINI-LAPAROSCOPIC CHOLECYSTECTOMY AS A STANDARD PROCEDURE***

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*Introduction:* Single-incision laparoscopic surgery has cosmetic effect compared to conventional laparoscopic procedure. However, its technique is difficult because of the lack of triangulation and the conflict among instruments. Therefore, surgeons need a new learning curve for the procedure. Mini-laparoscopic procedure using fine instruments does not need particular technique and also has cosmetic benefit compared to conventional laparoscopic approach. We perform mini-laparoscopic cholecystectomy as a standard reduced port surgery and no difficulties and problems are found.

*Instruments:* We use the mini-laparoscopic instruments system for laparoscopic surgery. All instruments are available in 3mm except a clip applier and an ultrasonic dissector. During the operation, smaller instrument has some problems for manipulation because of the less rigidity. In the system, by using the long metal trocar, the rigidity is improved. In our inspection, the distortion of instrument is reduced 60% by using the trocar.

*Operative procedure:* We used three fine trocars (1 subxiphoid and 2 subcostal) and one 12mm trocar (umbilicus). The 3mm camera is inserted from umbilical port during dissection. The clip applier or the ultrasonic dissector was used through the umbilical port with the camera view through the subxiphoid port. During operations we did not find any problems of instruments due to its less rigidity. And there were no increase of operating time, blood loss and complications.

*Conclusion:* The mini-laparoscopic cholecystectomy is the simple procedure and has good cosmetic result. There was no need for a new learning curve for this operation.