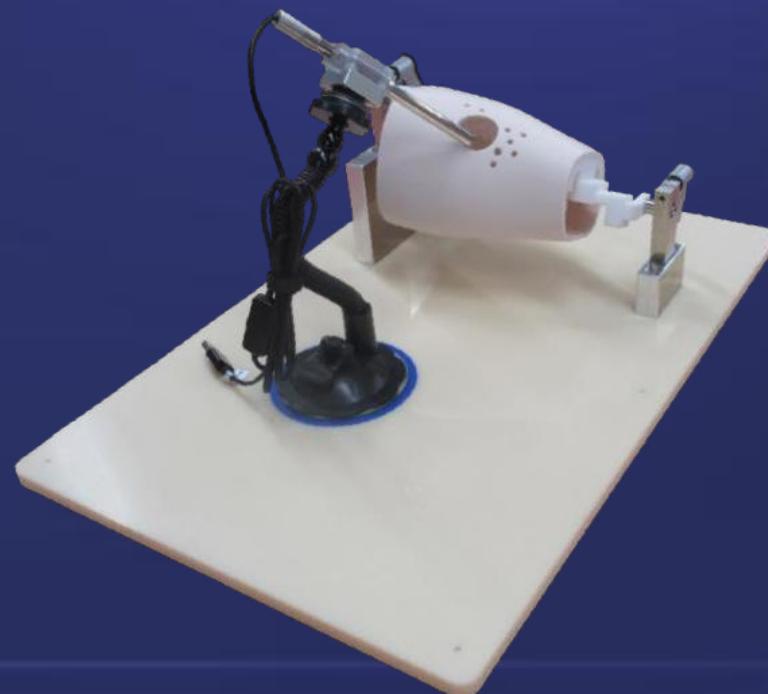


Current “ Off the Job Training ” of Pediatric Minimally invasive surgery

Simulators



Neonatal abdominal cavity

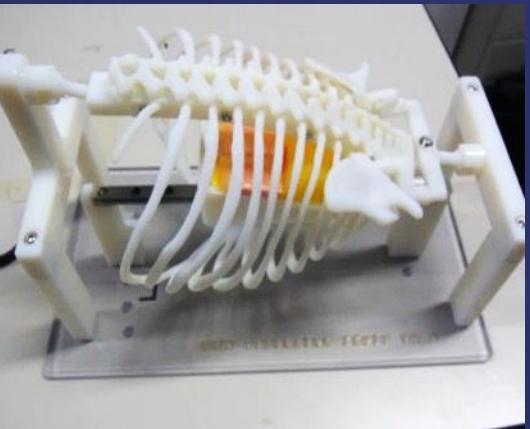


Neonatal thoracic cavity

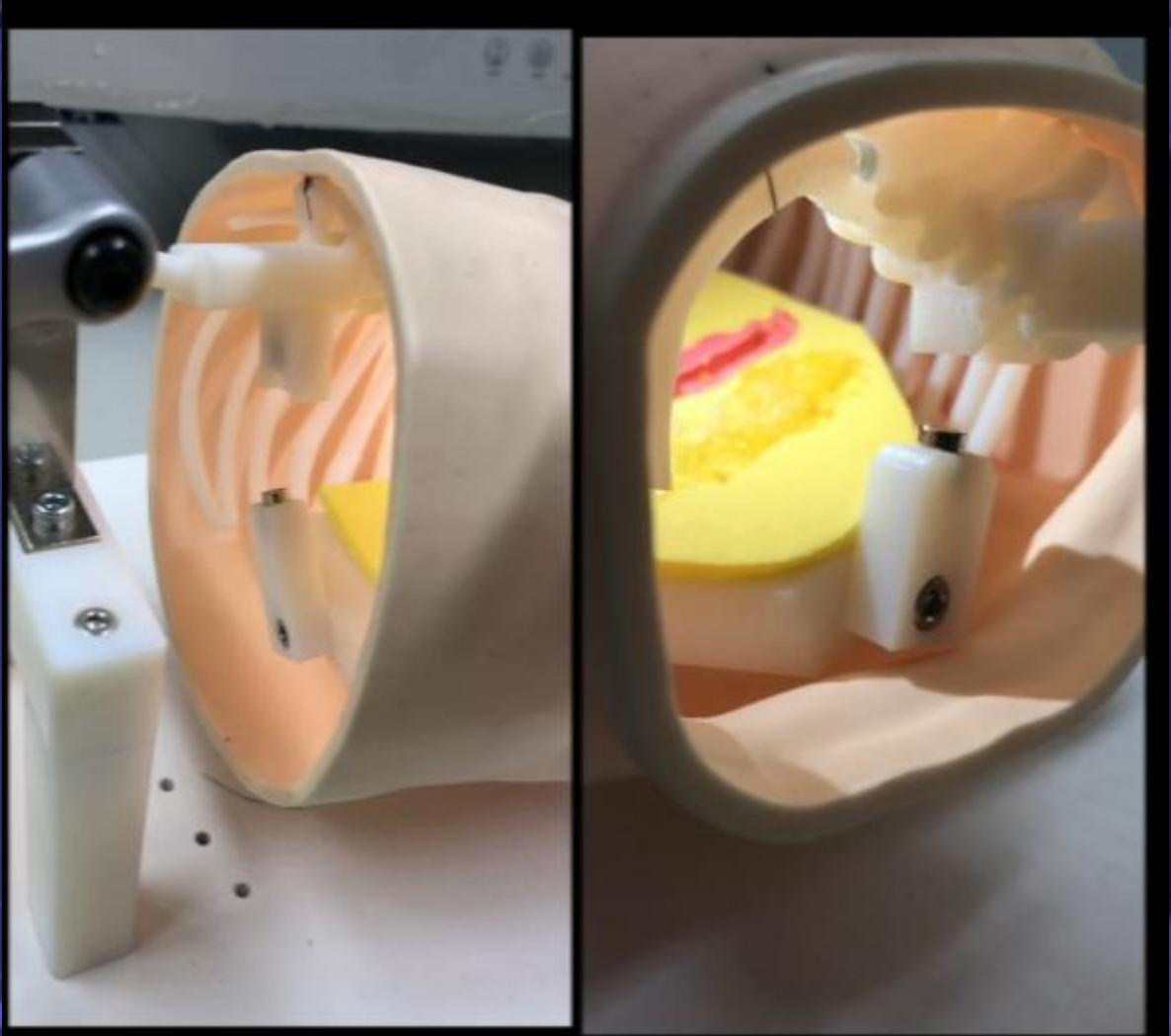
Simulator of Esophageal atresia



Esophageal model

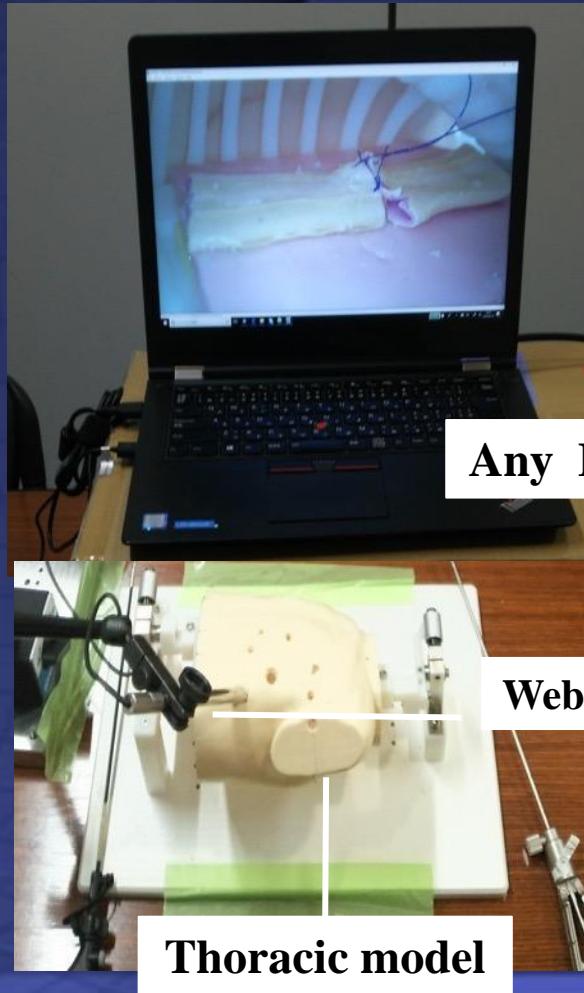


Neonatal thoracic model

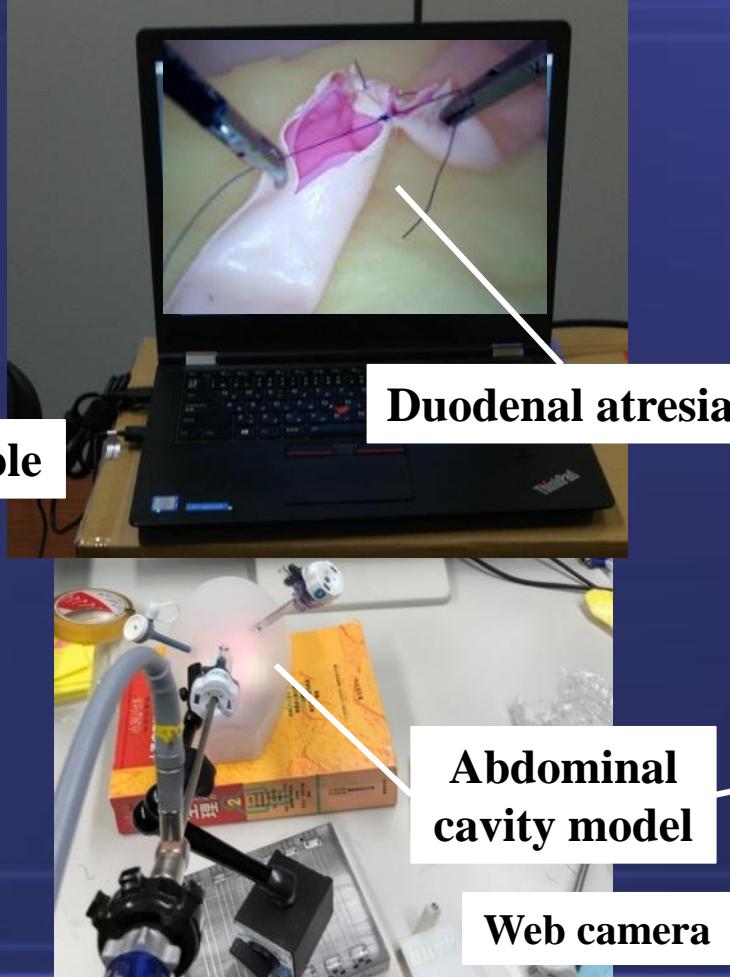


Easy to set

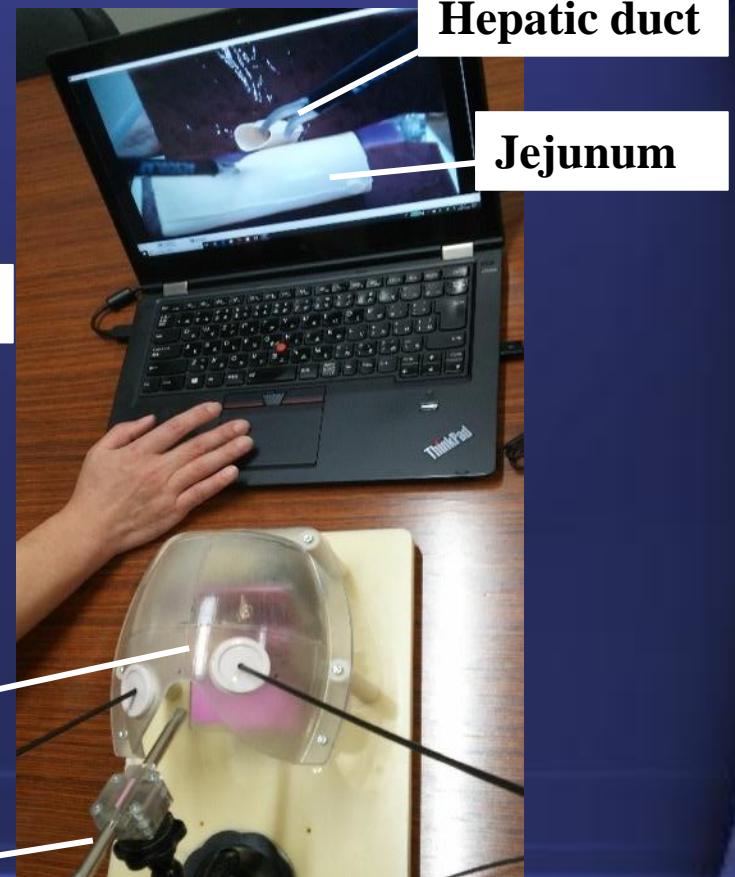
Neonatal surgical Simulators



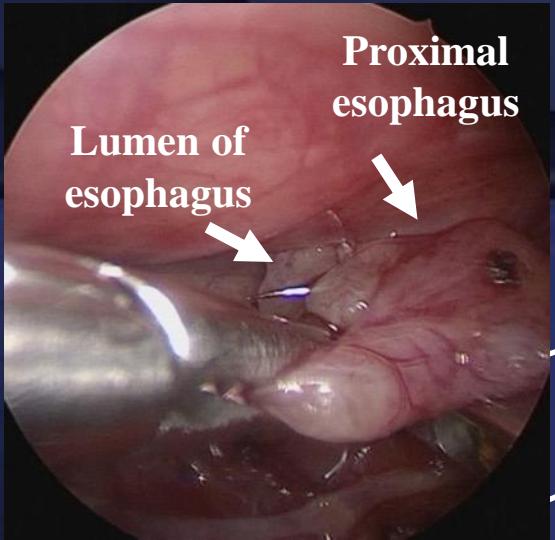
Esophageal atresia



Duodenal atresia

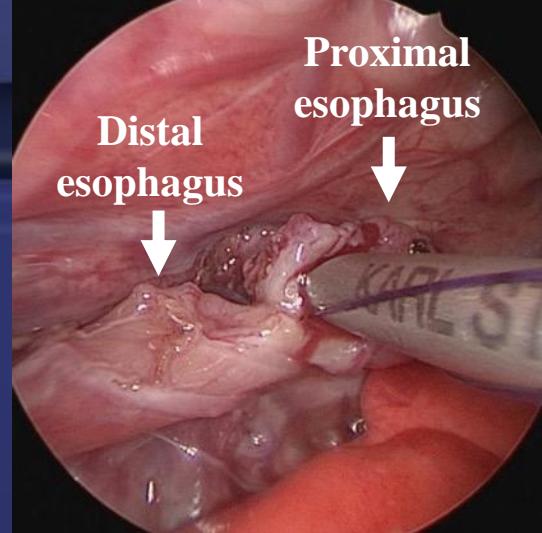


Hepaticojejunostomy



The first stitch

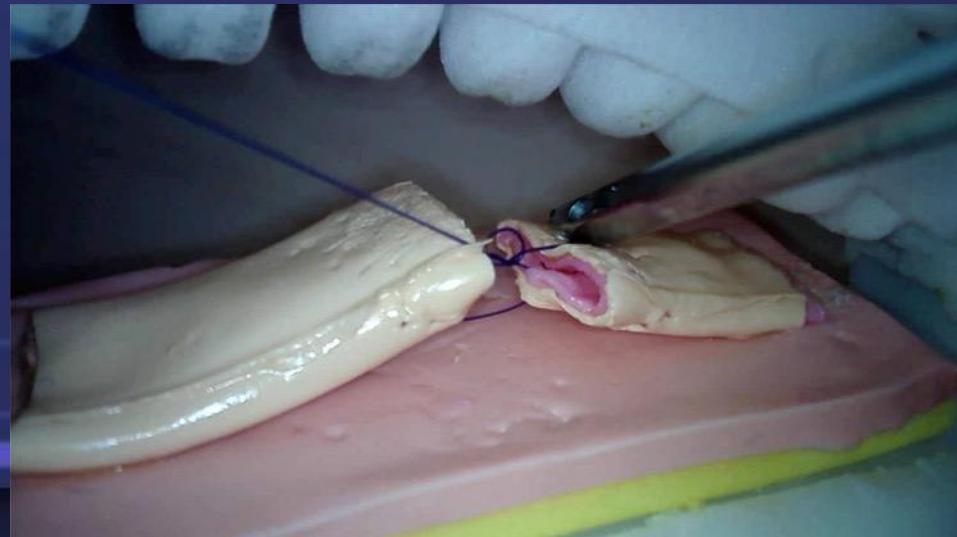
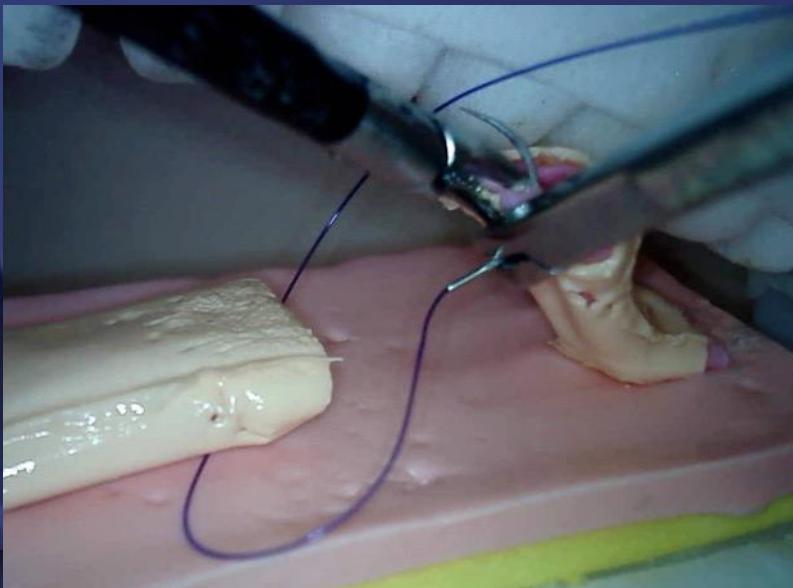
The first knot is made intraluminally.



The first stitch

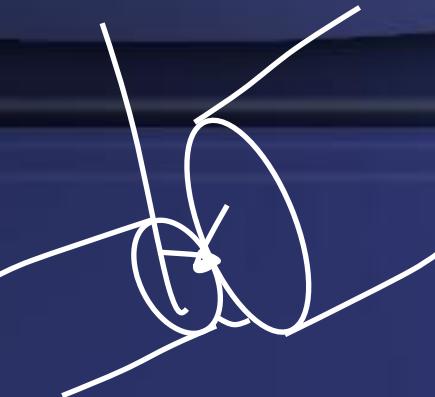
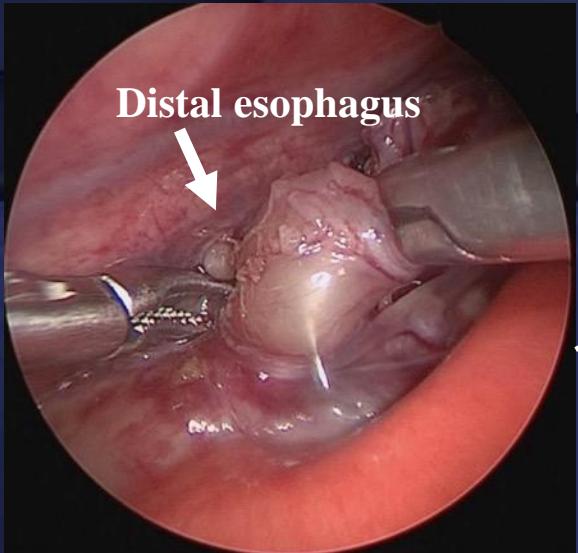
Extracorporeal or intracorporeal suture technique

4

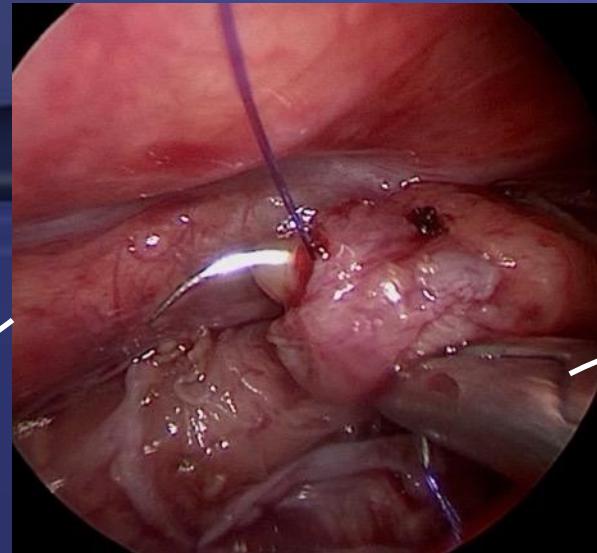


Esophageal atresia model

4



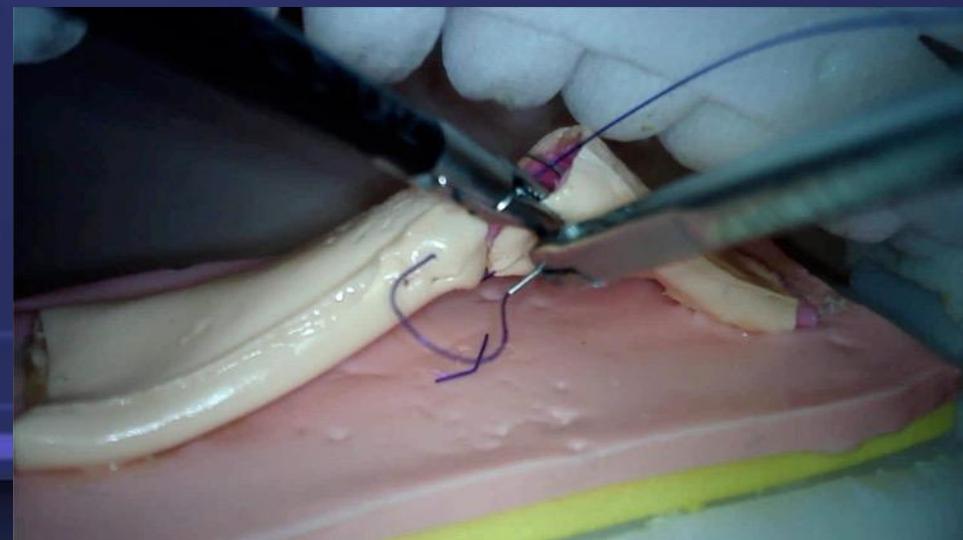
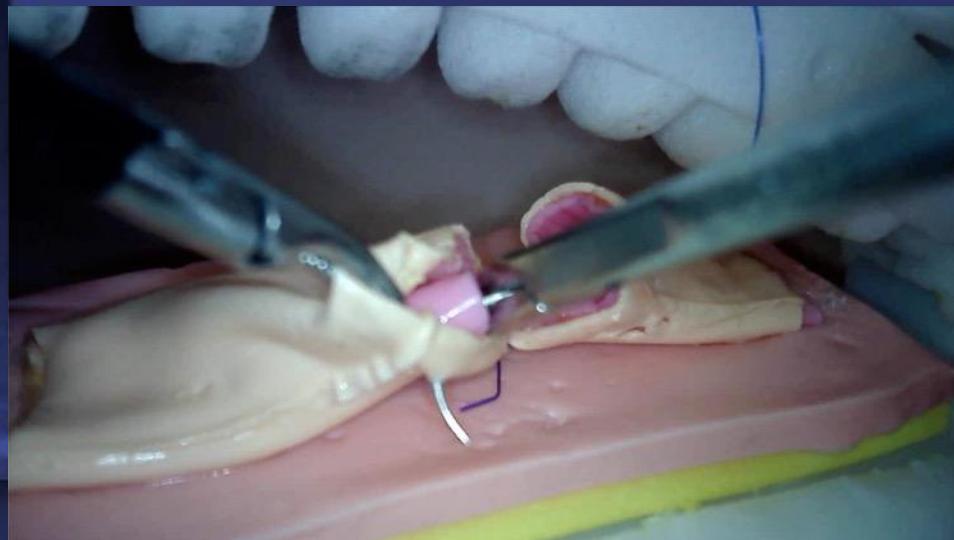
the second stitch



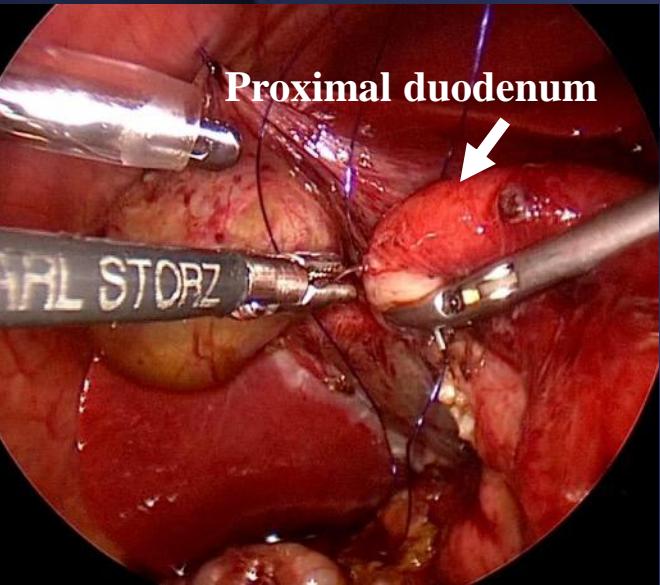
the second stitch

The second stitch

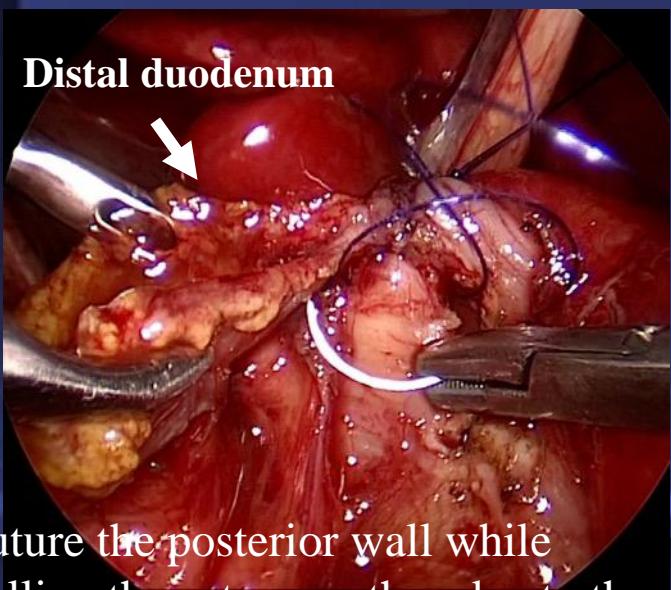
Start the second stitch from the mucosa of the distal esophagus to the proximal esophagus.



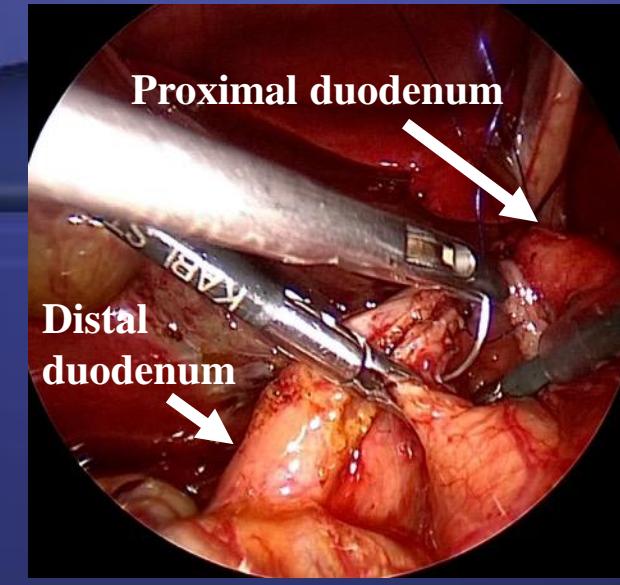
Esophageal atresia model



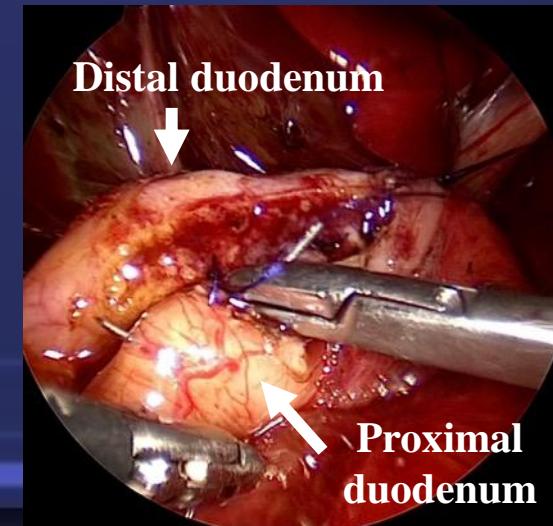
Start suturing from the right end.
(side-to-side anastomosis)



Suture the posterior wall while
pulling the suture on the edge to the
ventral side.

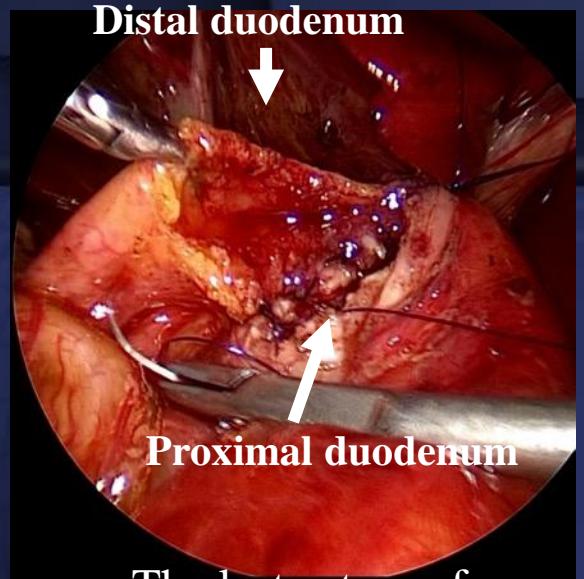


Suture the posterior wall
while pulling the suture on the edge
to the ventral side

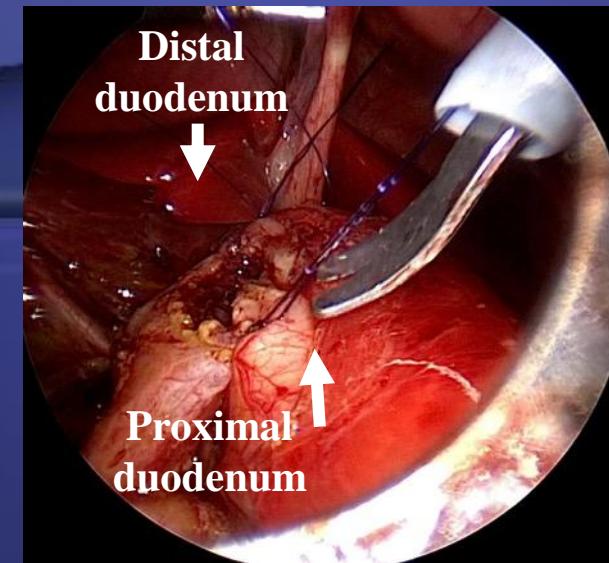


The last suture of the posterior wall.

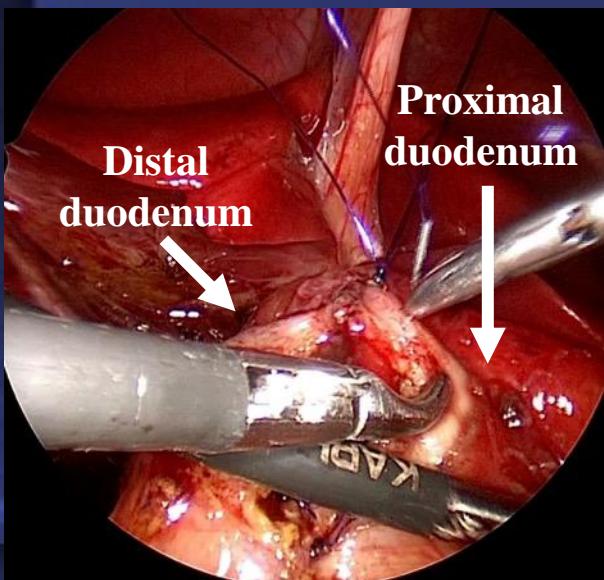
Duodenal atresia model



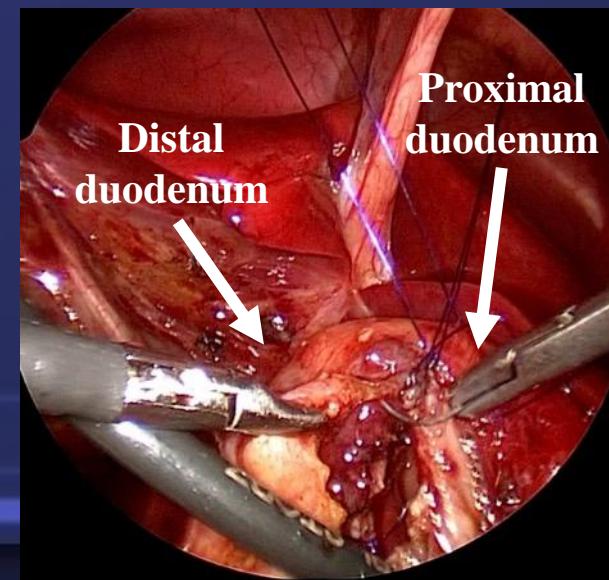
The last suture of
the posterior wall



The last suture of
the posterior wall

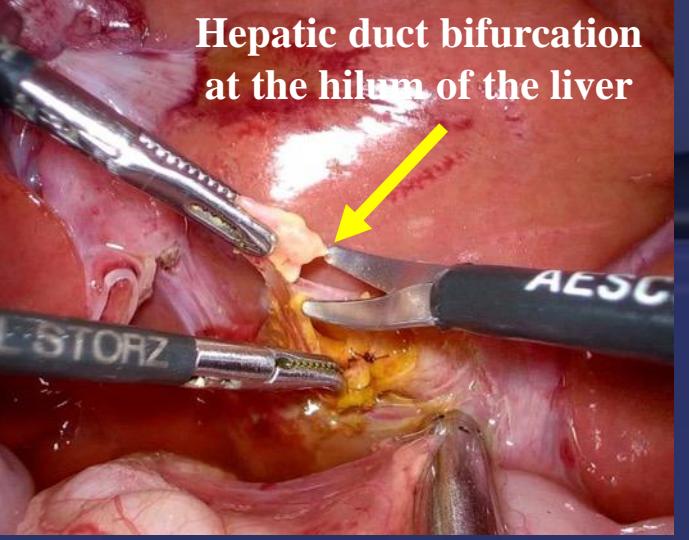


The first suture of
the anterior wall

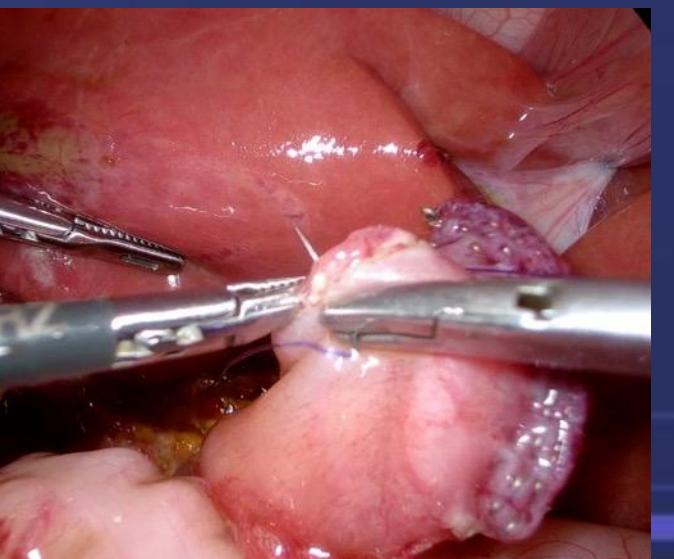


The first suture of the anterior wall

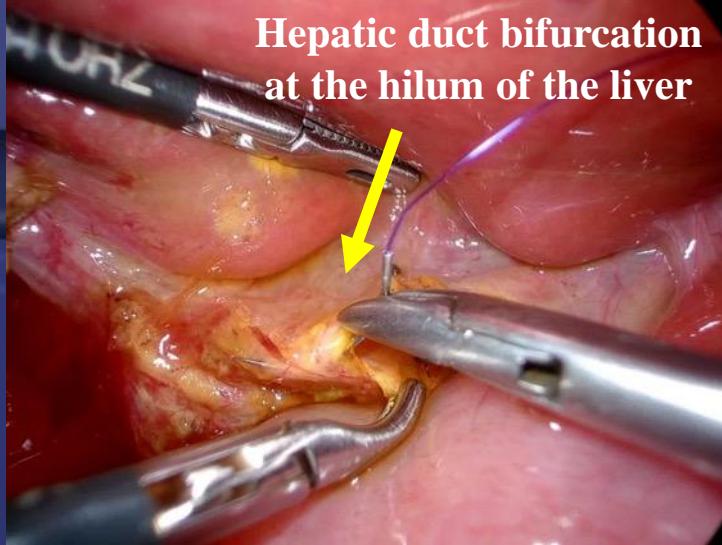
Duodenal atresia model



Hepatic duct bifurcation
at the hilum of the liver



Trim the common hepatic duct
for bilioenteric anastomosis.



Start suturing from the right edge of
the common hepatic duct.

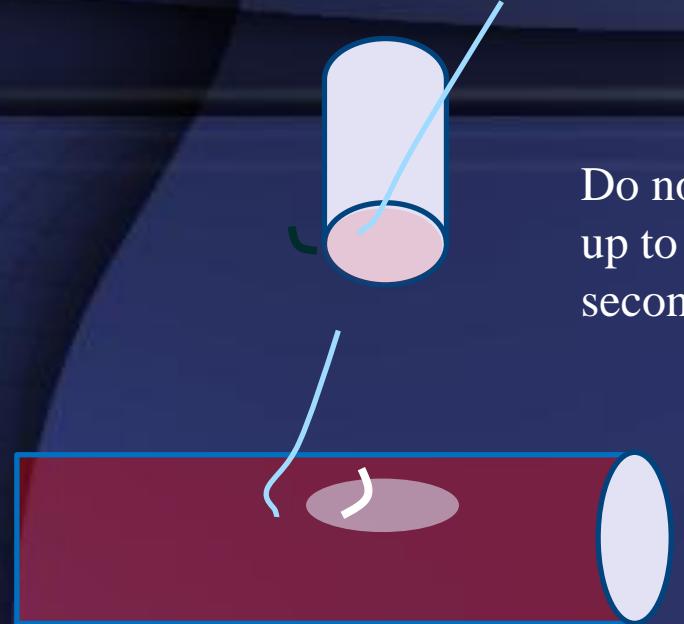


Right edge of
the common hepatic duct

Place the suture at the right edge of the Roux-limb
with technique to reverse the needle.
Intracorporeal or extracorporeal knot tying

Choledocal cyst model

The second stitch of bilioenteric anastomosis
(the common hepatic duct)

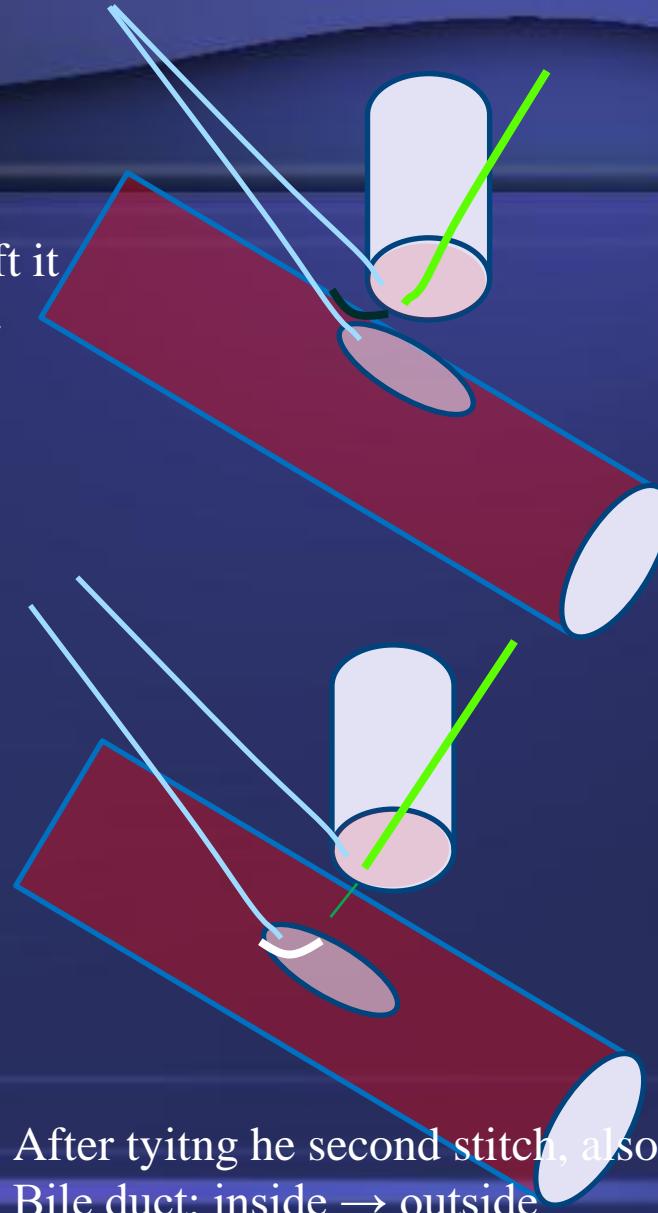


First stitch (right end):

Bile duct: inside → outside

Intestine: reverse needle, outside → inside

Do not tie the first stitch. Lift it up to make placement of the second stitch easier.



After tying the second stitch, also tie the first stitch.
Bile duct: inside → outside
Intestine: outside → inside

Choledocal cyst model