

# Phase Detection and Tool Detection of Cholecystectomy .

## Preparation Phase: (0 seconds - 29 seconds)

Tools Used: Grasper

Organs detected: Liver, Gallbladder



## Calot Triangle Dissection Phase: (30 seconds - 599 seconds)

Tools Used: Grasper, Hook, Irrigator

Organs detected: Gallbladder



## Clipping Cutting Phase: (600 seconds - 959 seconds)

Tools Used: Grasper, Clipper, Scissors

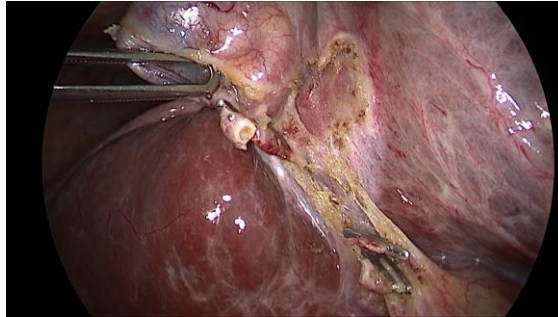
Organs detected: Gallbladder, Fat



**Gallbladder Dissection Phase: (960 seconds - 1439 seconds)**

Tools Used: Grasper, Bipolar

Organs detected: Gallbladder



**Gallbladder Packaging Phase: (1440 seconds - 1579 seconds)**

Tools Used: Grasper, Specimenbag

Organs detected: Gallbladder



**Cleaning Coagulation Phase: (1580 seconds - 1649 seconds)**

Tools Used: Grasper, Bipolar, Irrigator

Organs detected: Liver, Gallbladder



**Gallbladder Retraction Phase: (1650 seconds - 1734 seconds)**

Tools Used: Grasper, Bipolar, Irrigator

Organs detected: Gallbladder

