





Laparoscopic versus open resection according to complexity
He.R.Co.LES group

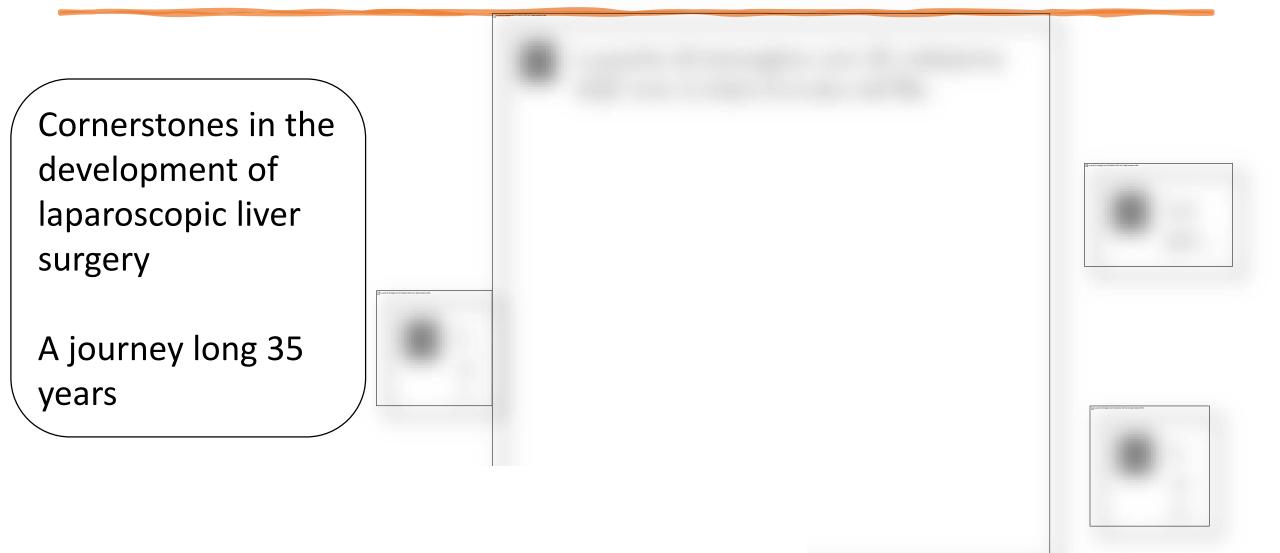
Prof Fabrizio Romano
Chief Hepatobiliary Surgery
IRCCS San Gerardo
National Coordinator
HE.R.CO.LES Group

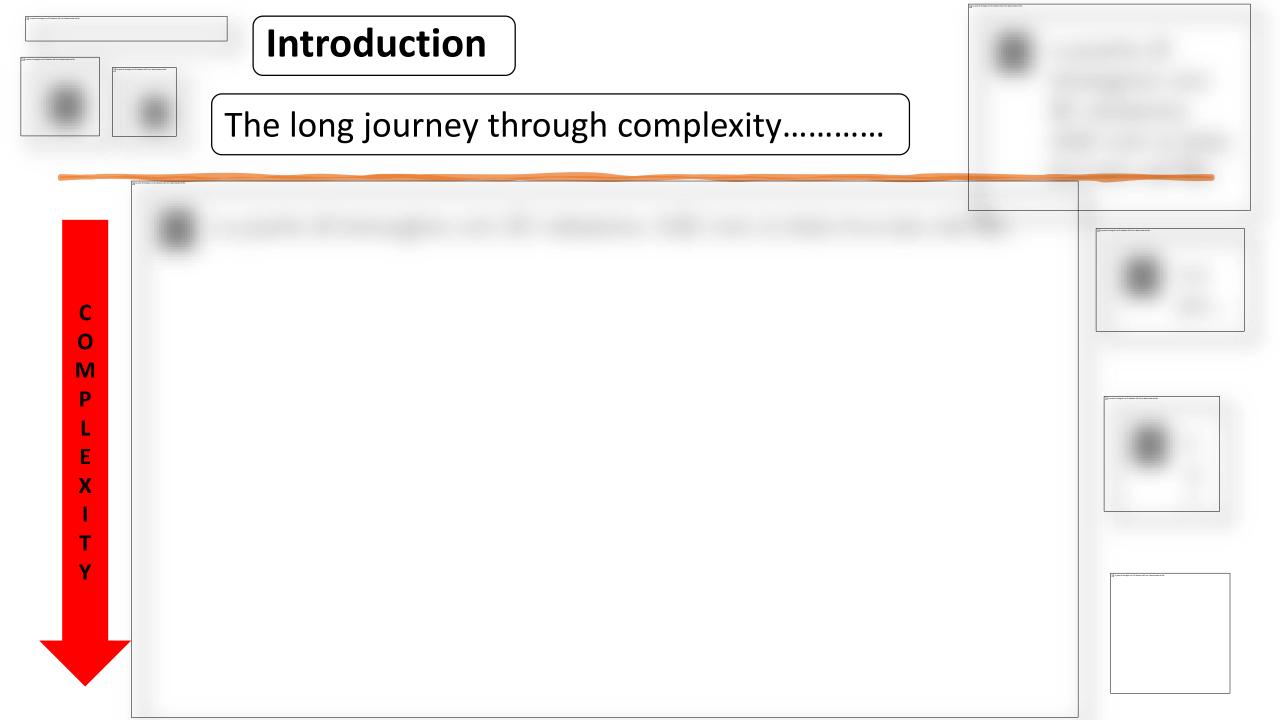


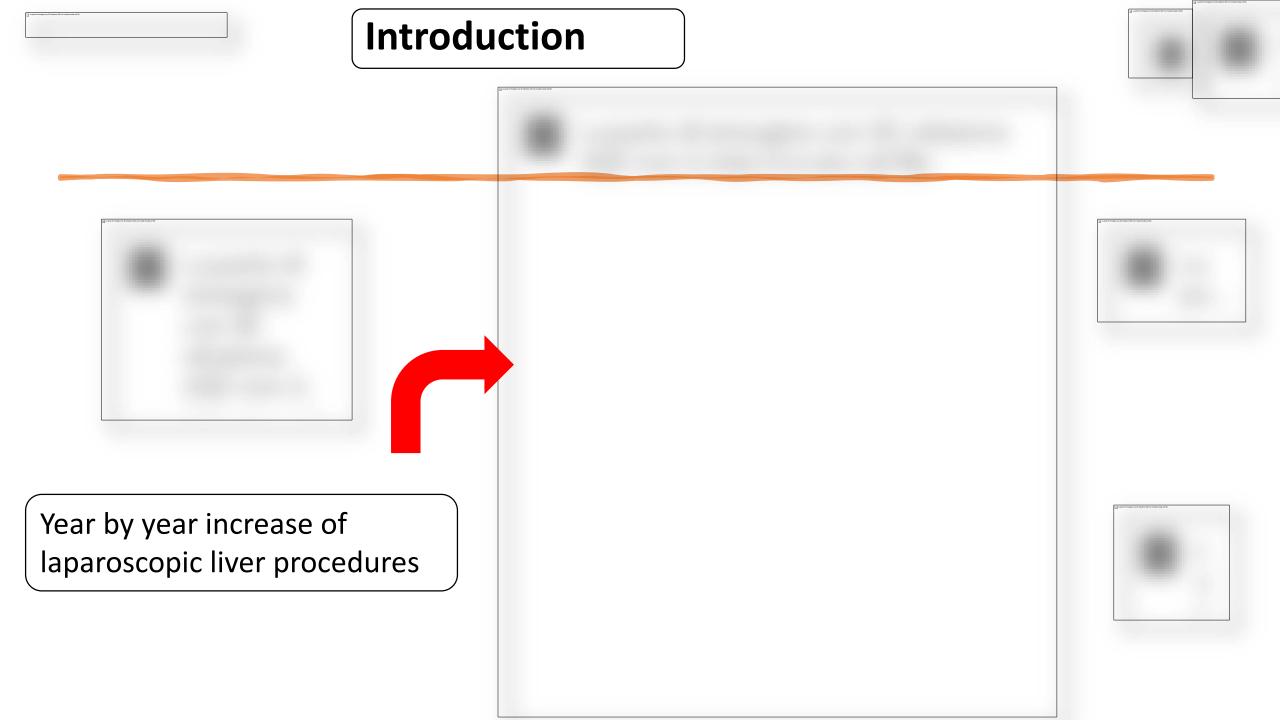


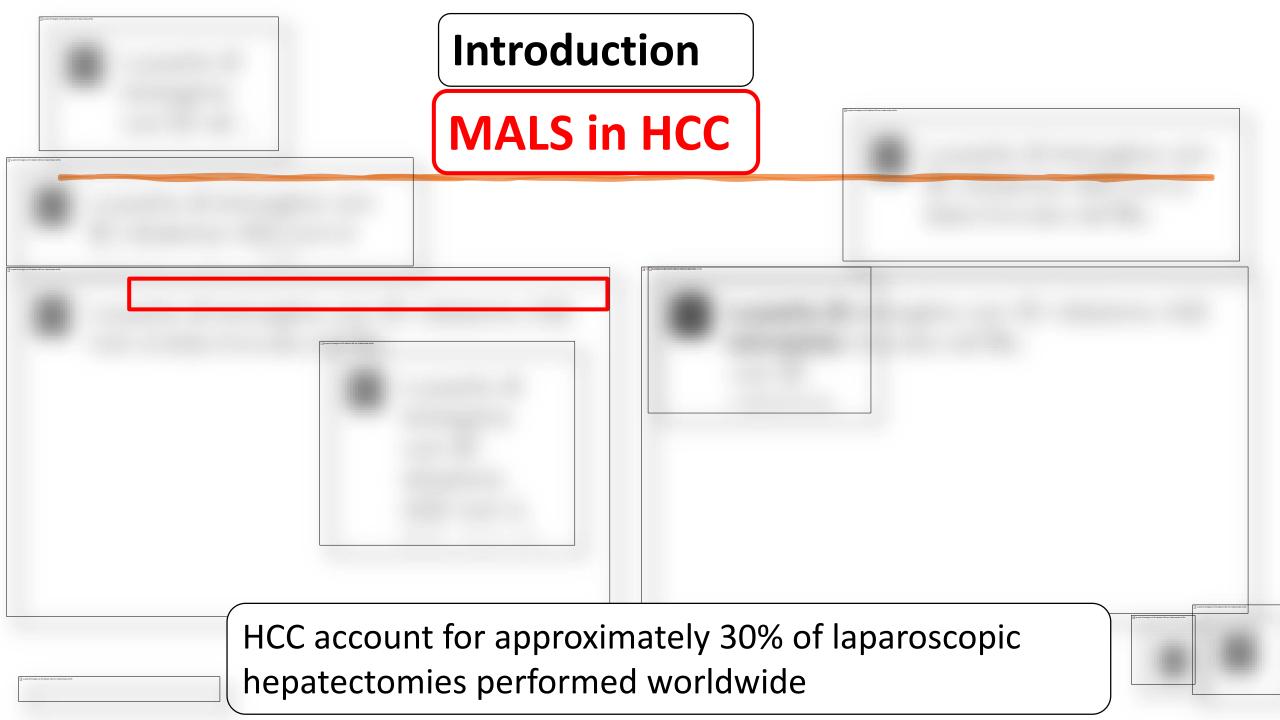


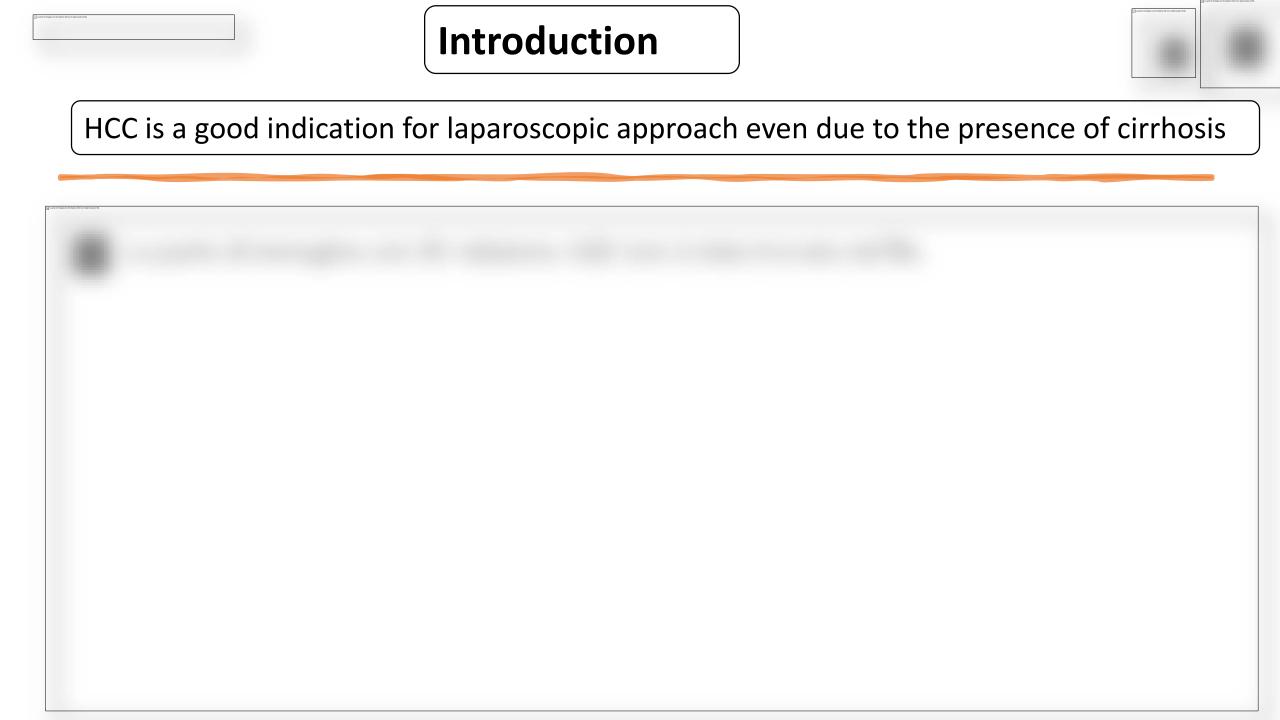
Introduction





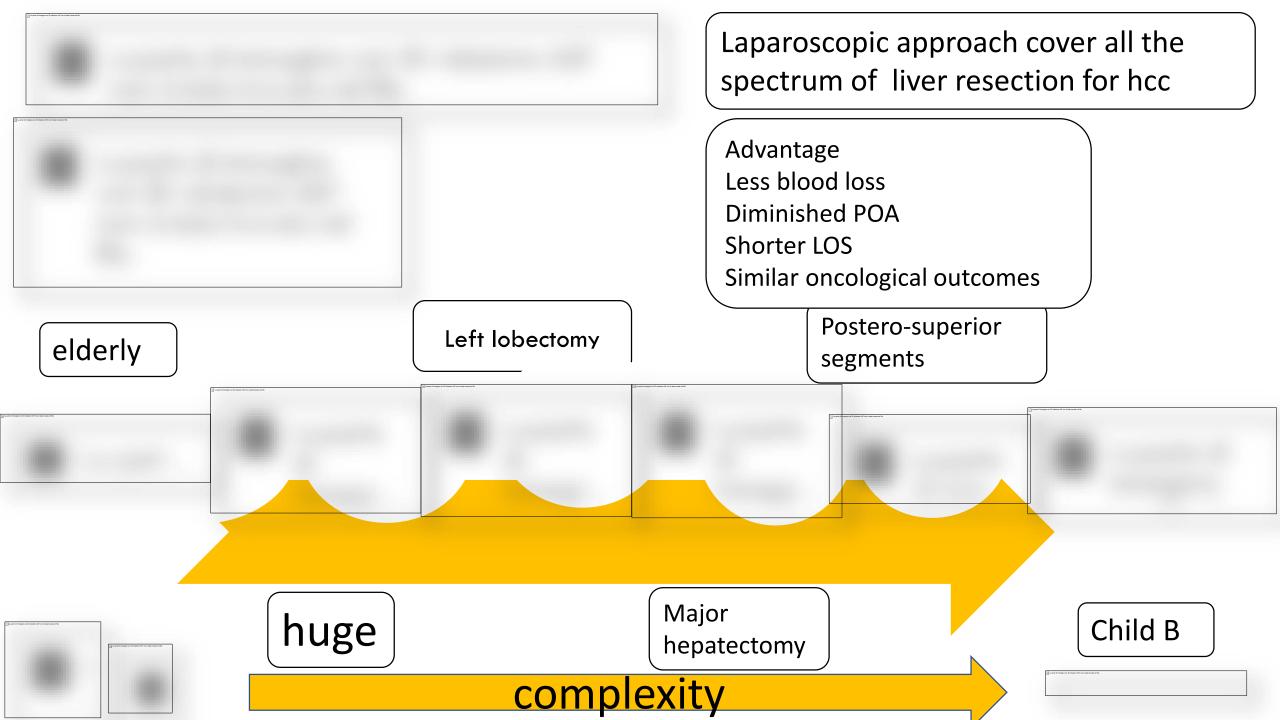






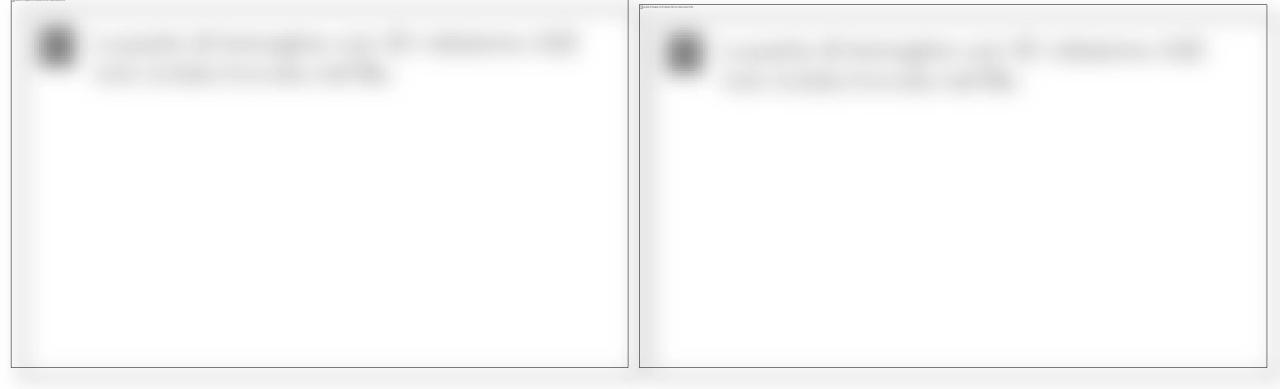
Introduction

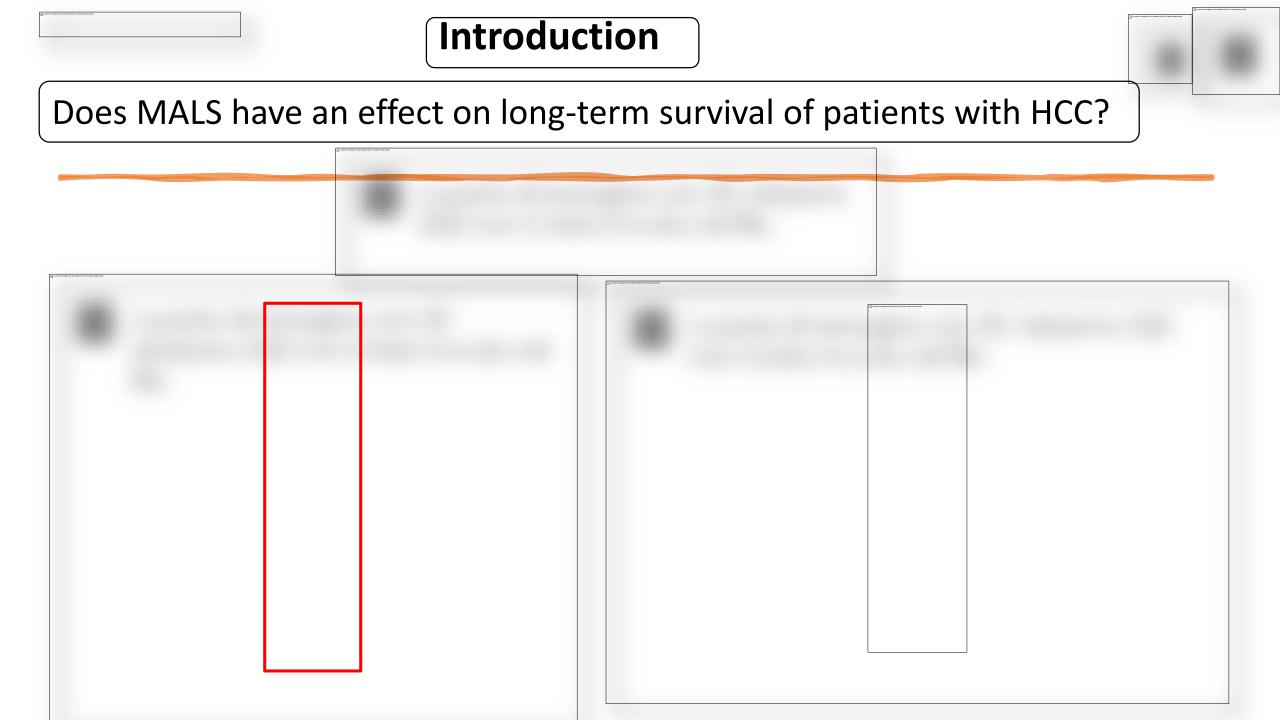
MALS show it's superiority or non inferiority in HCC setting compared to OLR

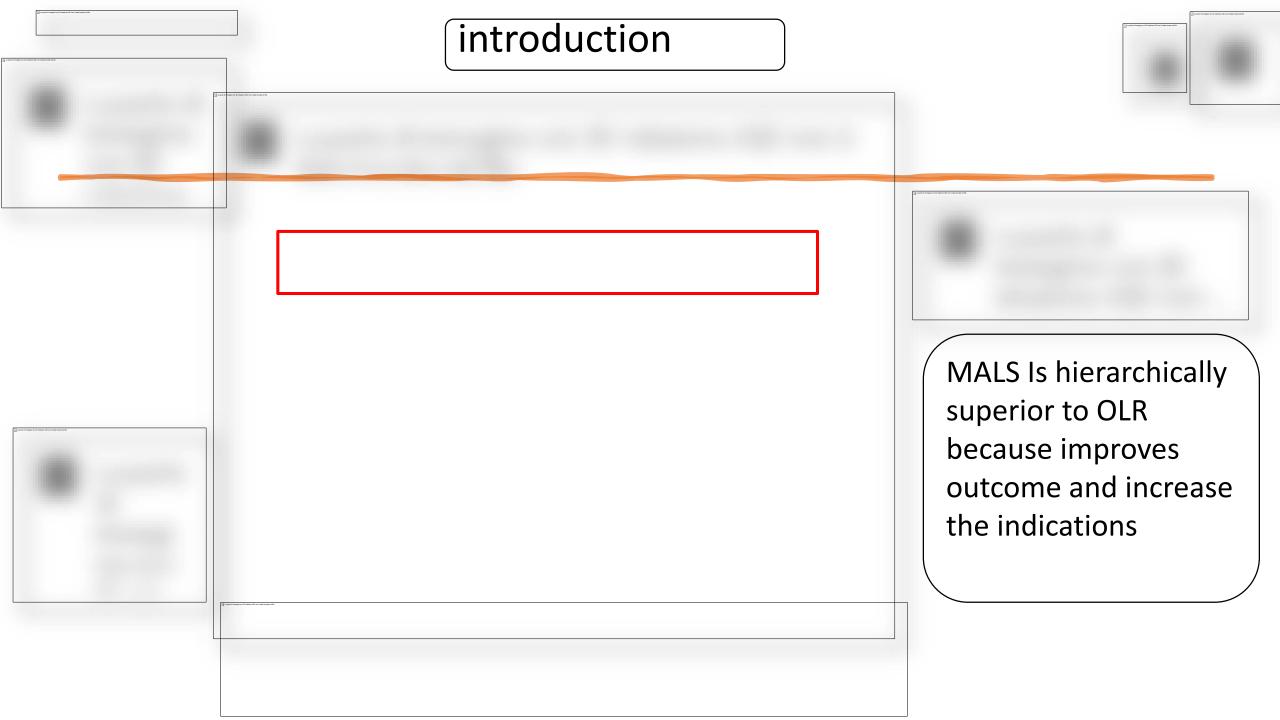


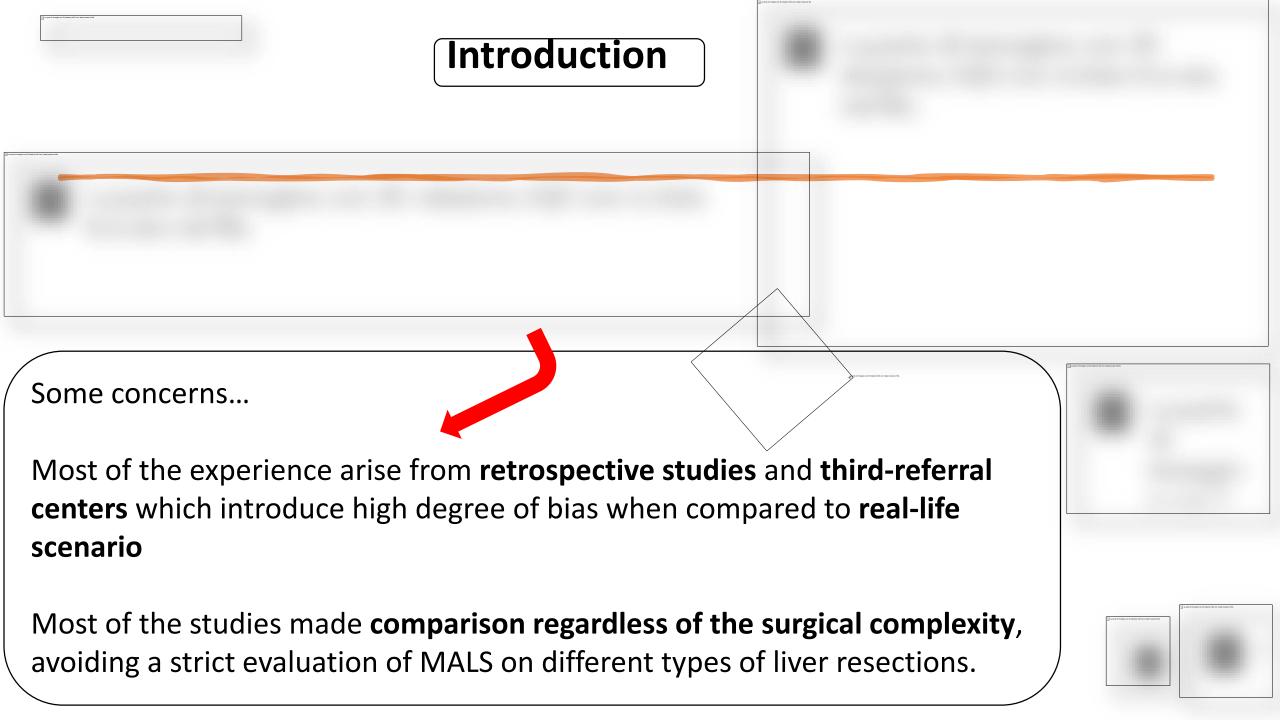
Introduction

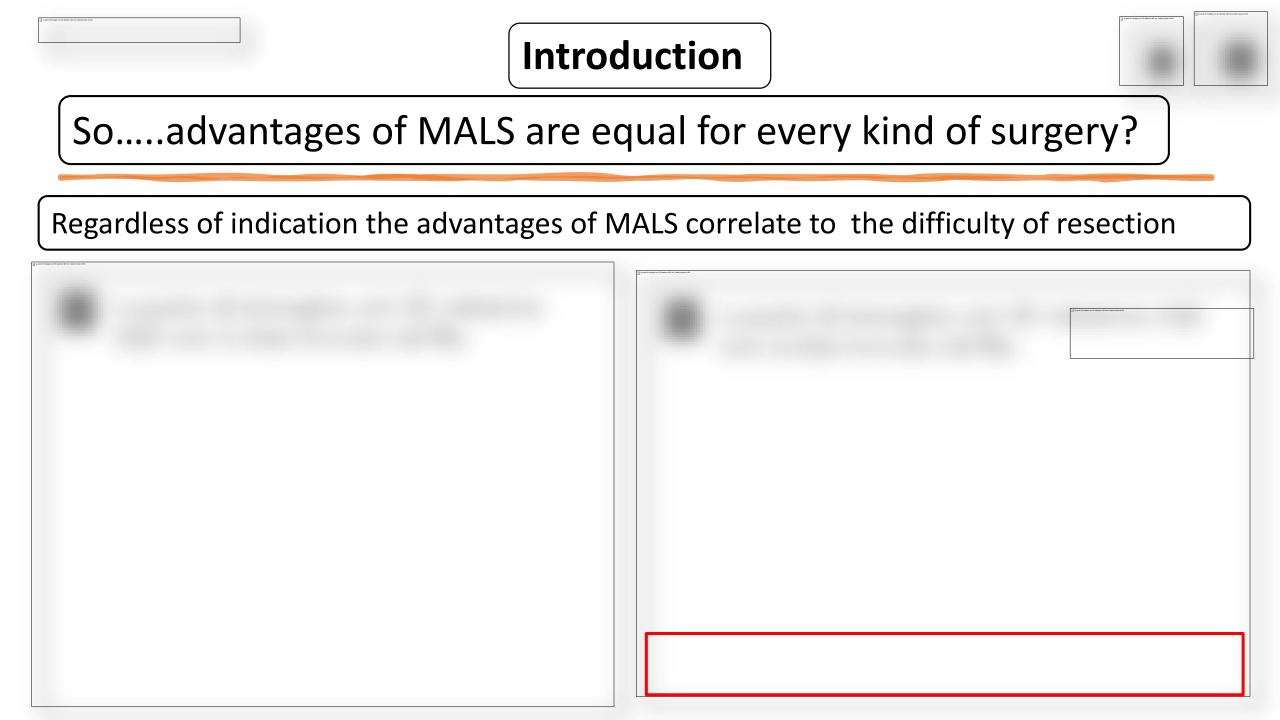
Robust data regarding the advantages of MALS

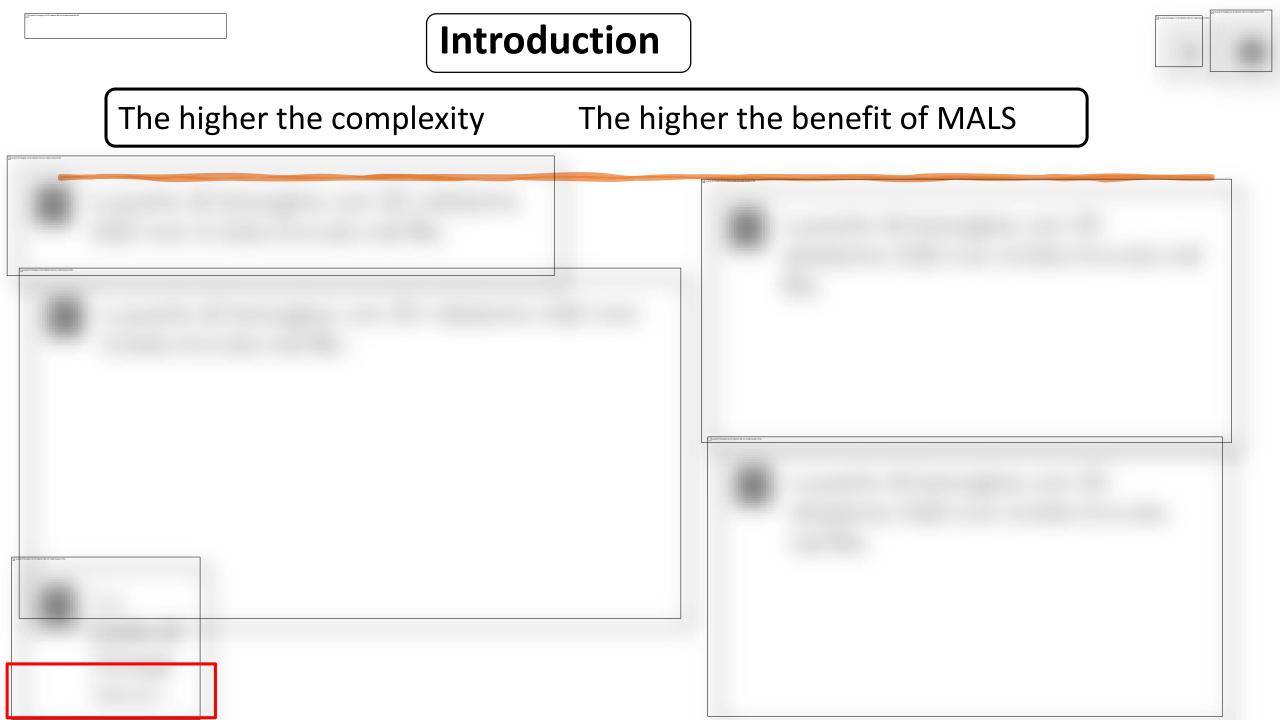


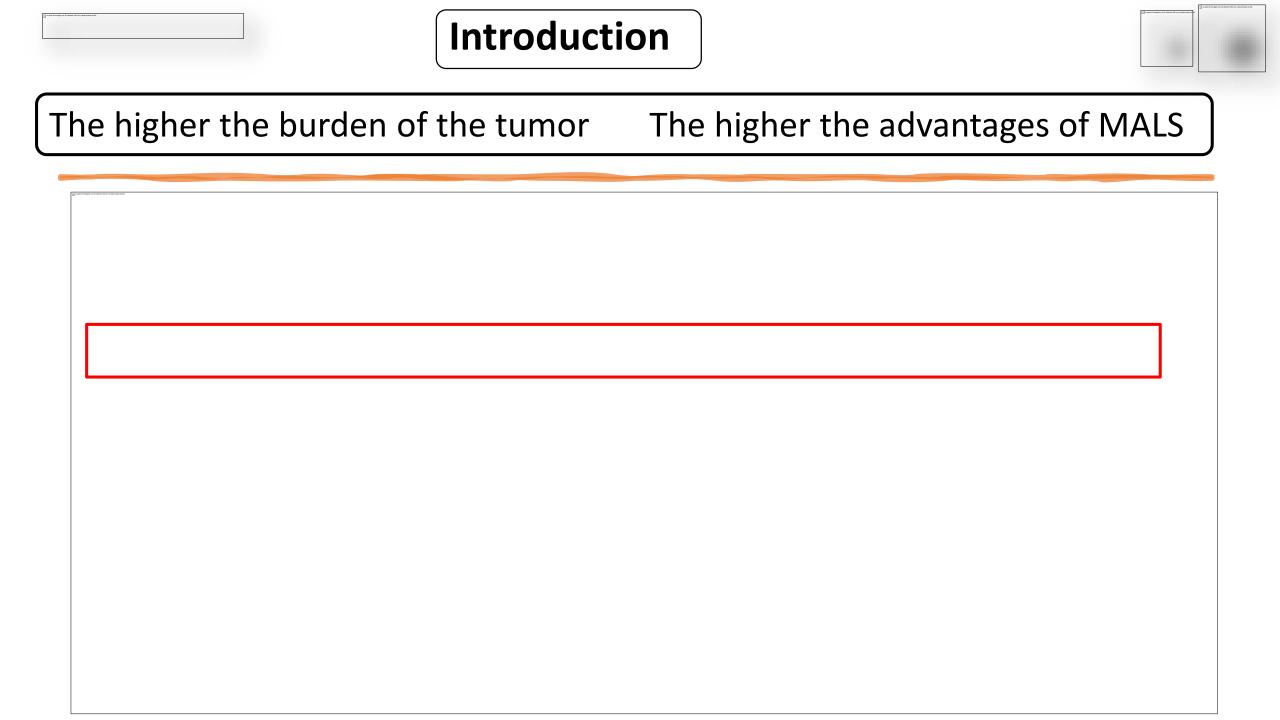


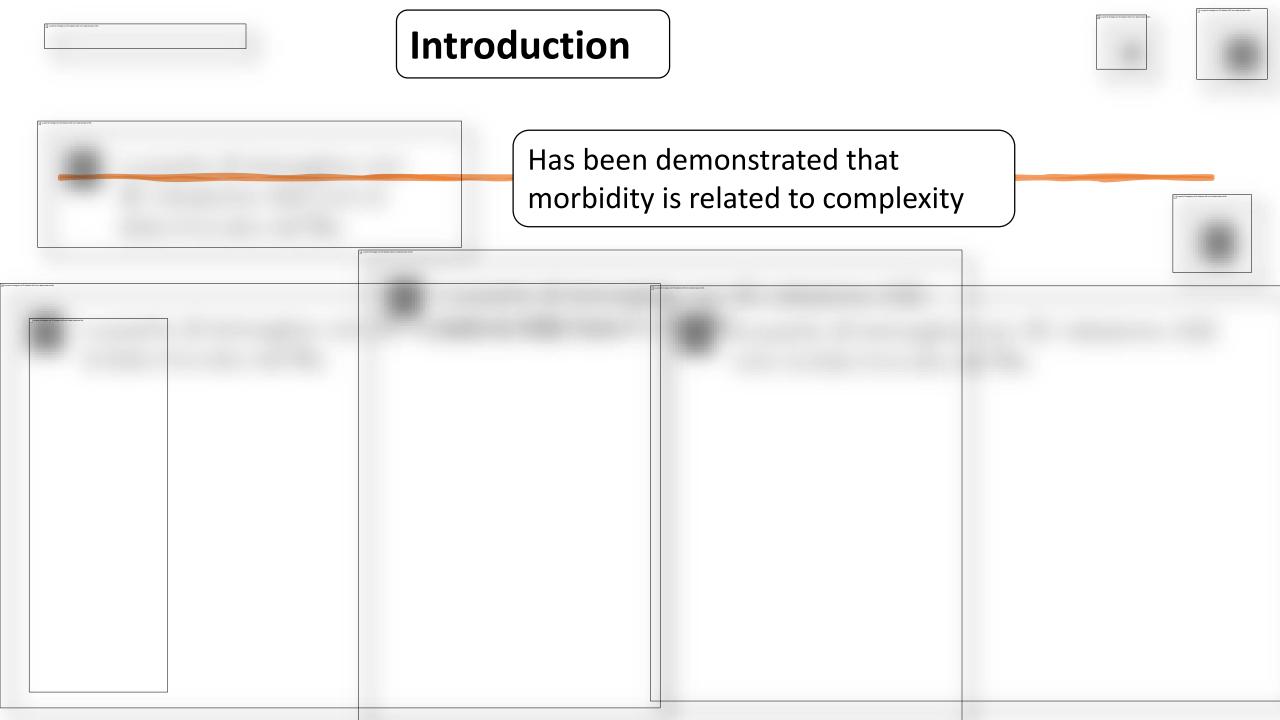


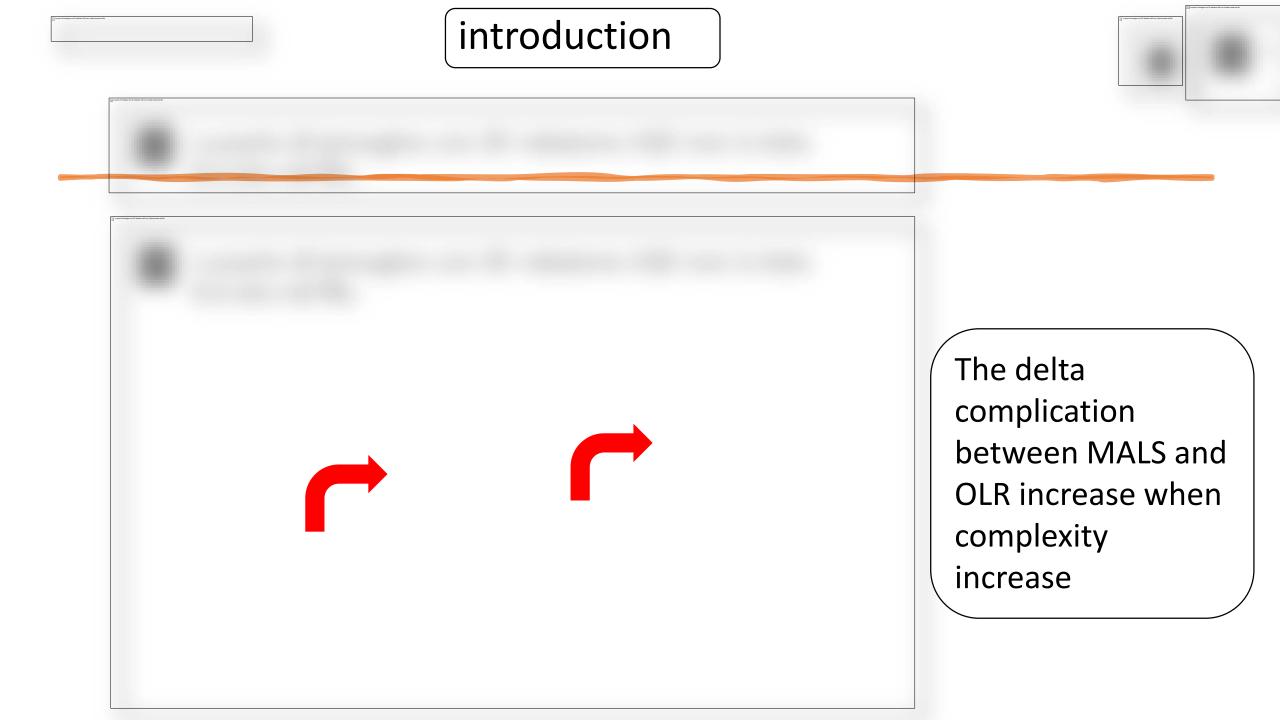


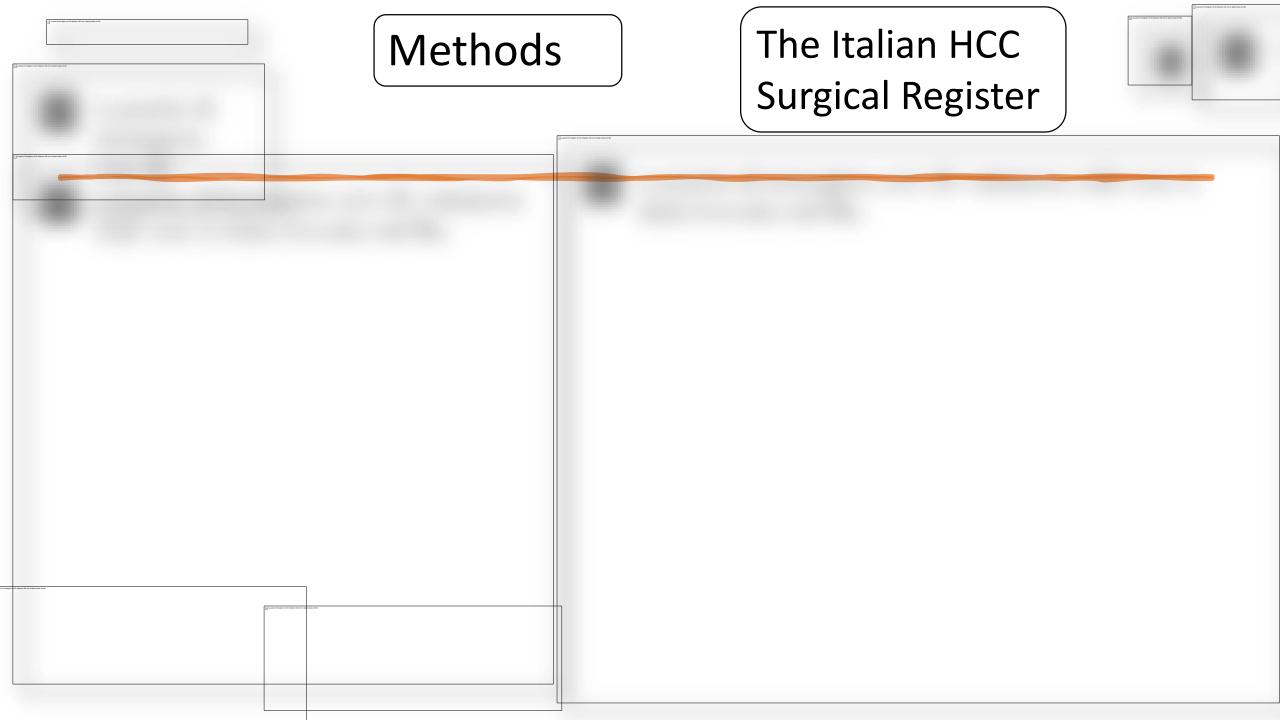












methods

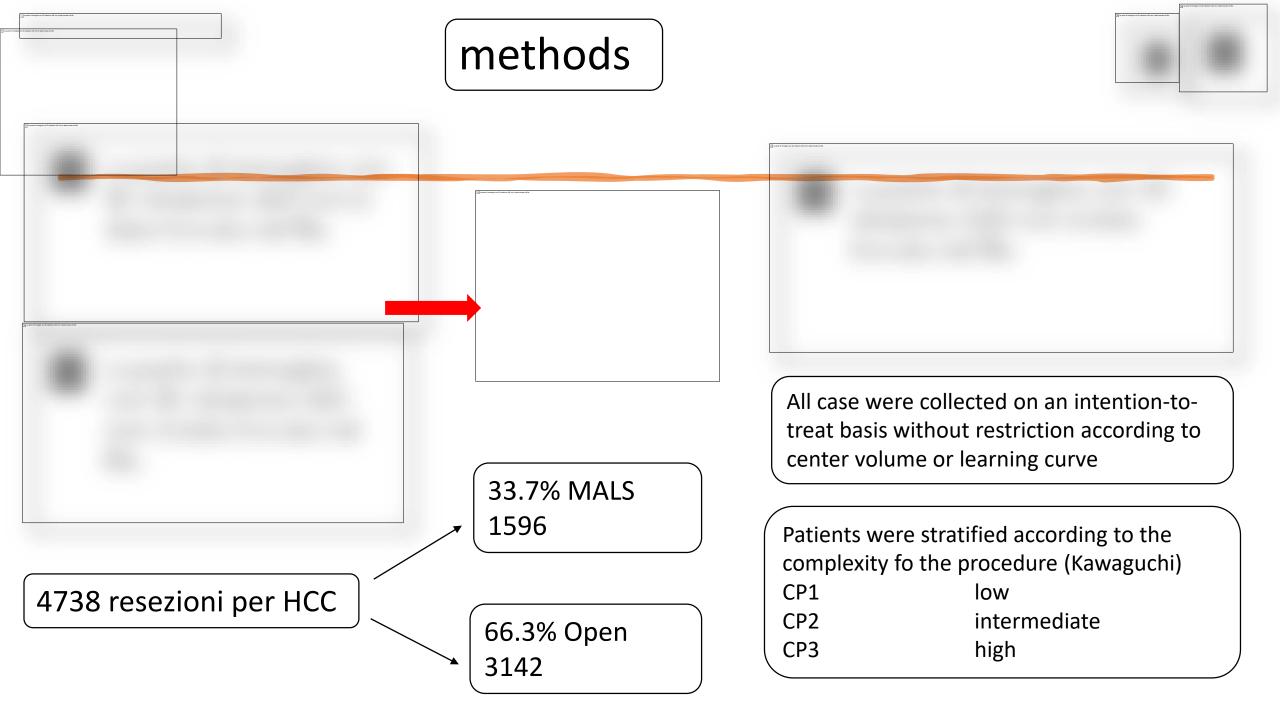
Multicentric national (36 Italian Centers) real-life study on resection for HCC

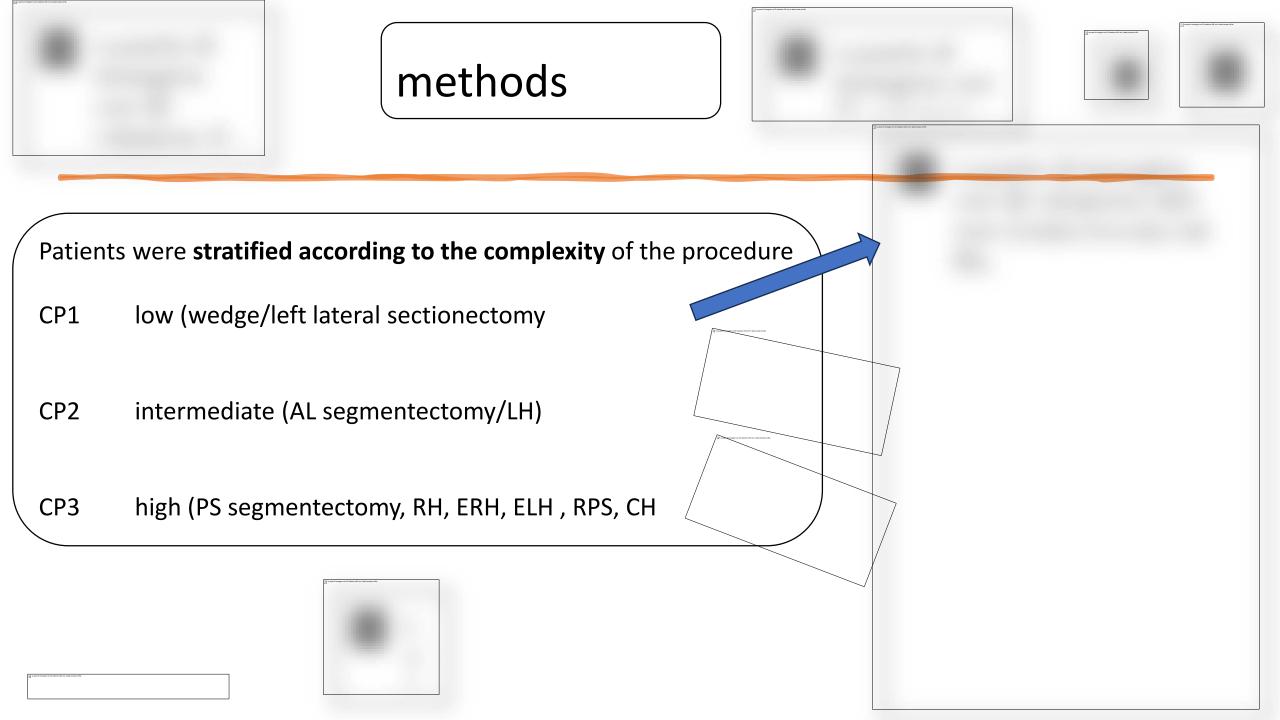
The map of Hercoles

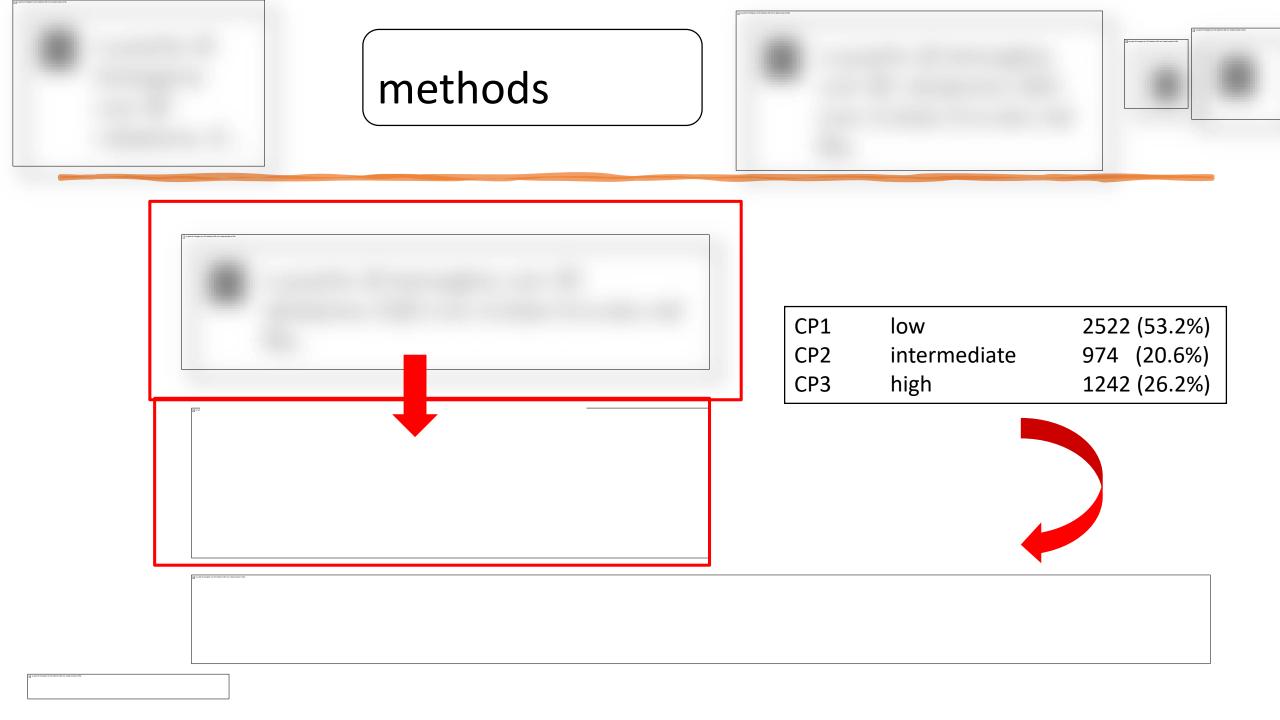
Data collected prospectively Centers with Low, Medium , high Volume of liver resection No restriction on annually treated patients.

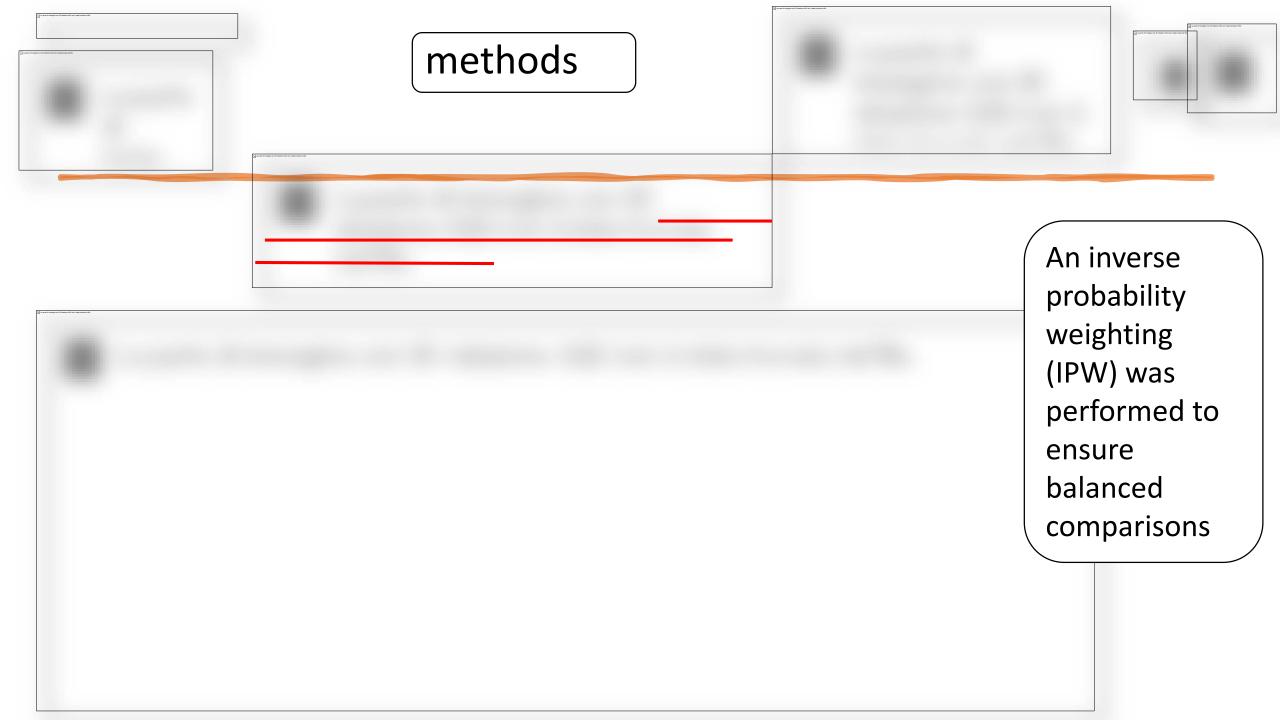
170 variables covering comorbidities, underlying liver function, radiological and intraoperative findings Postoperative course, histological assesment and follow up

methods To overcome the limits of literature's studies we conduct an in-depth analysis of a national real-life multicenter cohort of patients who have undergone liver resection for HCC The study aims to compare perioperative outcomes (overall complication, major complication, POA) of MALS and OLR, in a specific setting (HCC) with stratification according to the surgical complexity (Kawaguchi)

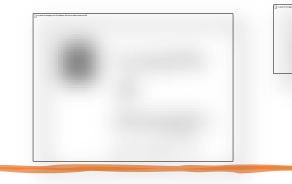










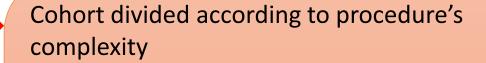


More of studies don't take in account the procedure's complexity

Multicentric studies are based on thirdreferral centers

Most of the studies adopt a PSM to reduce the risk of selection bias

MALS = easier procedures Matched with easier OLR = reduction of cohort complexity caused by PSM

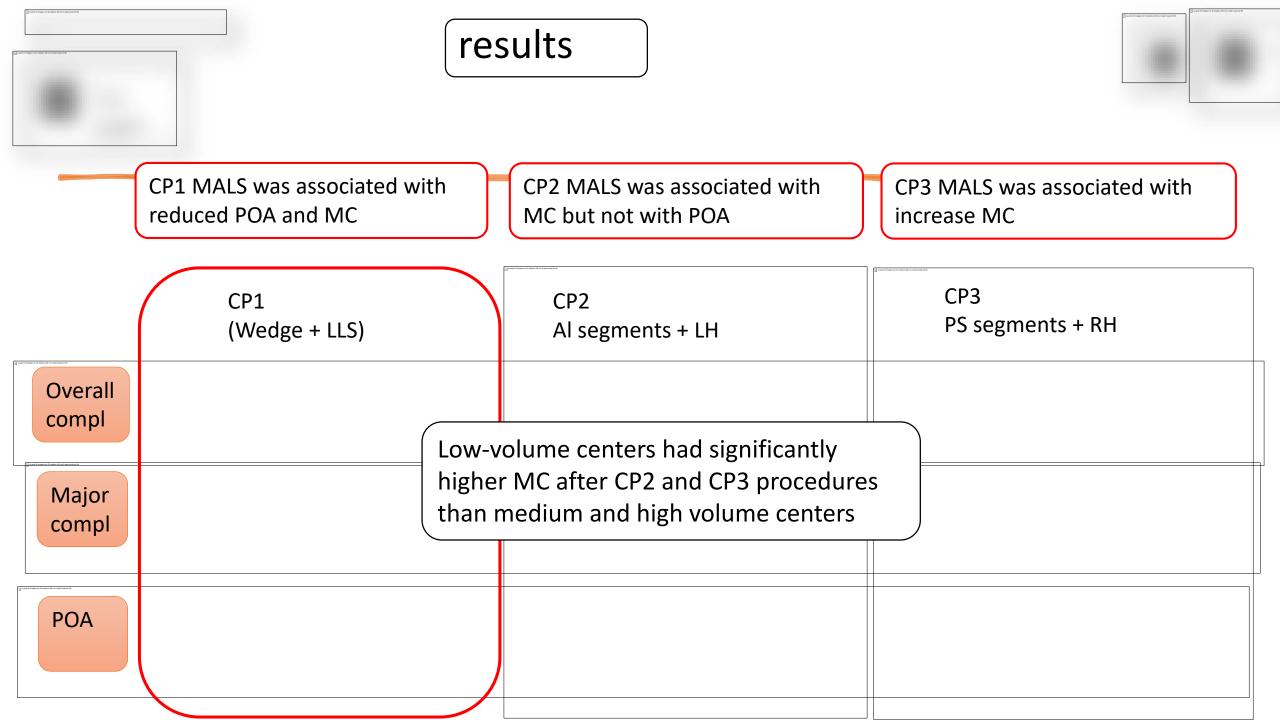


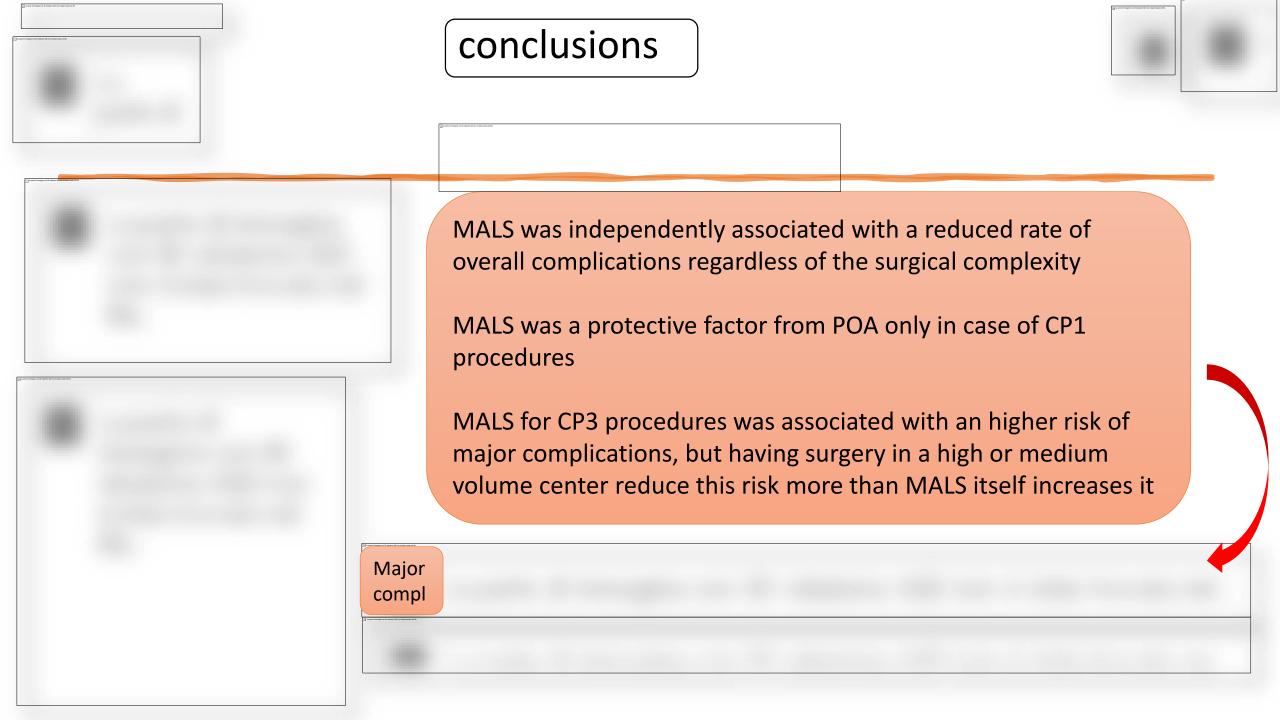
Real world scenarios not only referral centers, no case-load restriction

Inverse probability treatment weighting to create populations with similar characteristics

First report of a real world measurement of the outcomes after MALS vs OLR

among the largest series available in literature about HCC







Peculiar results of the study

Reduction of rate of complication is well established with MALS

In our study MALS is protective factor for major complication in CP1 and CP2 groups but is a significant risk factor in CP3 in a real-world scenario (risk of conversion, prolonged ischemic time, operative time, control of bleeding). Multicentric studies are based on third-referral centers

MALS was superior in reducing the risk of postoperative liver decompensation, such as POA, only in the low difficult group CP1 (reduce need for mobilization and lymphadenectomy and major trend in performing wedge resection) and not in CP2 and CP3 (other factor become more relevant such as underlying liver disease, tumor characteristics..)

