

Study of role of pre-operative ultrasonographic evaluation of common bile duct in gall bladder diseases.

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Abstract:

Objective- to study the sensitivity and specificity of ultrasonography in pre-op evaluation of gallbladder and common bile duct(CBD), and to co-relate it with the intra-op findings during surgery, and to finally infer about the role of ultrasonography in pre-op evaluation of CBD in case of gallbladder diseases. **Method-**this study was conducted on 50 patients attending the surgical OPD having gb diseases (gallbladder calculous, cholecystitis, gallbladder perforation, gallbladder mass etc), requiring open surgery (open cholecystectomy, open common bile duct exploration, open choledochoduodenostomy, whipple procedure etc.)were selected for study. patients underwent laproscopic surgery excluded from study. **Result-**this study recorded that out of total 50 patients 44 had calculous cholecystitis, 3 had gb perforation with gb cal and other 3 had gb mass with gb cal. this shows that gallstones are the most common gallbladder disease. sensitivity of usg in detecting gall stones in our study is 98%, CBD dilatation is 88.46%, CBD stones is 90% and CBD strictures is 75%. specificity of usg in detecting these 4 parameters is 100%. ultrasonographic measurements of CBD were accurate as confirmed by subsequent direct measurements made intra-op. **Conclusion-**stones are the commonest cause of gall bladder disease. ultrasound is very sensitive and specific in detecting CBD pathology. it can be used as an initial modality for investigation of biliary tree as it is very cost effective, non-invasive and no radiation exposure. usg measurements of CBD are accurate. they compare very well with that of intra-op measurements of CBD.

Key Words: CBD diameter, Gall bladder disease, Intra operative finding.

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