

Benefits of MRCP

- Not limited to anatomical evaluations; it can also yield physiologic and functional information.
- Advances and applications of MRCP provide highly accurate and clear visualization of the biliary and pancreatic tract and therefore offer a **non-invasive accurate, refined diagnosis**.
- The absence of ionizing radiation and safety make MRCP an excellent diagnostic tool.
- Since exogenous contrast material is not always needed, patients with contrast allergies, renal failure or a history of atopy can be imaged safely.
- Post-operative bile-duct injuries and anastomotic leaks can be readily detected with MRCP and can create a complete "roadmap" of the bile ducts.
- **Cholelithiasis** is accurately identified with MRCP in fact, the technique had a sensitivity of 91.6%, specificity of 100% and overall diagnostic accuracy of 96.8%.
- MRCP has been shown to have a sensitivity of 97%, a specificity of 100% and an accuracy of 98% for the diagnosis of **pancreaticobiliary disease**.
- Well suited for assessing the biliary tree **after orthotopic liver transplantation**.
- MRCP is superior to CT for defining the proximal extent of biliary tract tumors.
- The accuracy of MRCP in diagnosing **hepatolithiasis** is 96%.
- Studies have shown that MRCP has a sensitivity and specificity 90% for the detection of biliary obstruction.
- MRCP enables **early visualization of intrahepatic duct dilatation**, which can occur as a result of stricture formation.
- MRCP can be used to detect neoplasms of the pancreas and to determine staging, surgical resectability and tumor recurrence.
- The correlation of MRCP findings with histopathology is excellent.

