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### Trans-abdominal sonography of the stomach and duodenum

**T**rans-abdominal sonography of the stomach and duodenum can reveal following diseases: gastritis, duodenitis, and acid gastritis. An ulcer, whether it is superficial, deep with risk of impending perforation, perforated, sealed perforation, chronic ulcer and post-healing fibrosis and stricture, polyps and diverticulum, benign intra-mural tumors, intra-mural haematoma, duodenal outlet obstruction due to annular pancreas, gastro-duodenal ascariasis, pancreatic or biliary stents, foreign body, necrotizing gastro-duodenitis, tuberculosis, lesions of ampulla of vater like prolapsed, benign and infiltrating mass lesions. Neoplastic lesion is usually a segment involvement, and shows irregularly thickened, hypoechoic and aperistaltic wall with loss of normal layering pattern. It is usually a solitary stricture and has eccentric irregular luminal narrowing. It shows loss of normal gut signature, enlargement of the involved segment seen, and shouldering effect at the ends of stricture is most common feature. Enlarged lymph-nodes around may be seen. Primary arising from wall itself and secondary are invasion from peri-ampullary malignancy or distant metastasis. All these cases are compared and proved with gold standards like surgery and endoscopy. Some extra efforts taken during all routine or emergent ultrasonography examinations can be an effective non-invasive method to diagnose primarily hitherto unsuspected benign and malignant gastro-intestinal tract lesions, so should be the investigation of choice.

### Biography

Vikas Leelavati Balasaheb Jadhav has completed Post-graduation in Radiology in 1994. He has 23 years of experience in the field of Gastro-intestinal tract ultrasound and diagnostic as well as therapeutic interventional sonography. He has four Indian patents and an international patent in the field of Gastro-intestinal tract sonography and Radiology, since 2008. He has delivered many lectures in Indian as well as international conferences in nearly 27 countries as an Invited Guest Faculty, since 2000. He is a Consultant Radiologist and Specialist in Unconventional Gastro-Intestinal Tract Ultrasound and Diagnostic as well Therapeutic Interventional Sonologist in Pune, India.

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