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ROLE OF ULTRASONOGRAPHY IN DIAGNOSIS OF ACUTE APPENDICITIS

General Surgery

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KEYWORDS

Acute Appendicitis, Ultrasonography

INTRODUCTION:

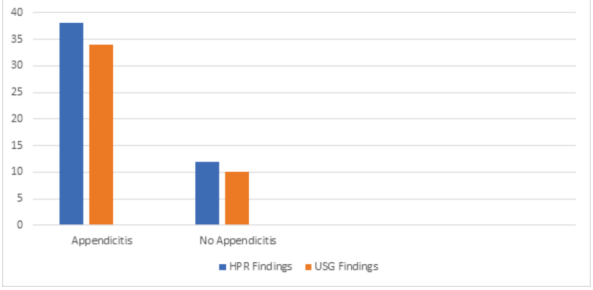
Appendicitis is one of the most common abdominal emergencies worldwide. This condition warrants quick health care and treatment as Untreated Infection can result into perforation and sequel of septicaemia and sepsis occurs. Patient Presenting to Hospital With Acute Appendicitis most of the time having Clinical Features Such As Right Iliac Fossa Tenderness, Rebound Tenderness, Vomiting, Fever, Anorexia, But Also It can be Presented as Vague Complaints Similar to Acute Abdomen Signs and Symptoms. Lifetime risk of acute appendicitis is 7 to 8 percent in Males and Females Both. There is no ideal symptomatic assessment apparatus to distinguish acute appendicitis. Delay in Intervention might results into Morbidity and Mortality at the same time Prompt Management may account to Negative Appendicectomy. Many Scoring System Designed to add help in Effective Diagnosis of Acute Appendicitis such as Alvarado and Tzanaki Scoring Systems. Radiological Investigations such as Ultrasonography and Computed Tomography aids help in diagnosis and also the part of newer scoring system like Tzanaki Score. Hence there is a need of the Study to check the Diagnostic Accuracy of Ultrasonography in Acute Appendicitis.

METHODOLOGY:

This is a Cross sectional Study Conducted in Department of General Surgery of Dr. D.Y. Patil Hospital, Kolhapur (Maharashtra, India) Between January 2023 to December 2023 Period of a Year. 50 cases Aged Between 18 to 60 Years come to Out Patient Department as well as Casualty and got Admitted for Acute Appendicitis later on Operated for Open or Laparoscopic Appendectomy having Preoperative Ultrasound (USG) Report. Diagnostic accuracy of USG was calculated keeping Post Operative Histopathology Report of the removed appendix as gold standard whenever appendectomy was carried out.

RESULTS:

Out of 50 Patients whose Ultrasonography done, 34 Patients Correctly Diagnosed as having Acute Appendicitis when compared Histopathology Report Favoring the same. Out of 12 Patients having Negative Histopathology Report 10 were having Normal Ultrasonography Findings.



This Showed that USG Scan has Sensitivity of 89% and Specificity of 83%. Positive Predictive Value is 94% and Negative Predictive Value is 71%. Overall Diagnostic Accuracy Came to be 88% for this Study.

CONCLUSION:

Ultrasonography has a high degree of accuracy in the diagnosis of acute appendicitis. Ultrasonography is Non Invasive, Non Harmful Investigation Modality and should be the first step in the diagnosis and care of patients with right lower abdominal pain after the physical examination. All diagnostic tests and Scores are adjunctive to the clinician for Better Diagnosis and Prompt Care.

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