

Acute appendicitis is one of the most common and challenging surgical emergencies. Ultrasound [US] is widely available , highly accurate imaging modality in patients suspected to have acute appendicitis, this study was done to assess the value of US in evaluation of suspected acute appendicitis patients with Alvarado Scoring System [MASS] of 5 & 6 . In this prospective study a total of (100) patients with clinically suspected acute appendicitis and with Alvarado score between 5 &6 underwent US examination of the abdomen The accuracy of ultrasonography in the diagnosis of appendicitis was compared with clinical diagnosis, laparotomy findings and histopathological examination reports.. The patients were divided into two groups: group A included those for whom surgery was done & the final diagnosis was established depending on the surgical finding &/or histopathology results & this group comprised (65) patients . Group B comprises patients who did not undergo surgery ,these patients were followed up until their improvement & discharge from the hospital & this group included (35) patients. The overall specificity of ultrasound was 88% and the sensitivity was 89% in the diagnosis of acute appendicitis in patients with MASS of 5 & 6 . US is a valuable tool in diagnosing acute appendicitis in patients with MASS (5 & 6). When the clinical sign and symptoms are combined with US, the diagnostic accuracy is significantly high.