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6.البحث السادس: بحث جماعى منشور

Reducing the frequency of unnecessary rectal

biopsies by combined interpretation of clinical

and radiological findings in Egyptian children

with suspected Hirschsprung's disease

Egyptian Pediatric Association Gazette

الملخص الانجليزي:

Abstract

Introduction: Hirschsprung's disease (HD) should be considered in children withneonatal-onset constipation. Clinical differentiation between HD and idiopathic constipation(IC) is difficult in late presenting infants. Consequently, pediatric surgical centers receive numerous referrals for rectal biopsies, requiring admissions and GA, particularly if suction biopsy is unavailable, and in older children.

Methods: Forty-two cases referred for rectal biopsy, were studied for clinical features, single contrastenema, as compared to rectal biopsy findings, to determine the statistical reliability towardsachieving a diagnosis.

Results: The mean age at presentation was 106 days in HD patients, and 172 days in IC. Significantneonatal clinical features were present in 54%. Delayed passage of meconium was present in 86% ofHD, compared to 14% of IC (p=0.001). Rectal examination found a tight segment in 90% of HD,and a distended anorectum in 64% of IC (p= 0.005). The sensitivity of contrast enema was 86%, and the specificity was 90%. The histological analysis of strip rectal biopsy was sensitive in 93%,and inconclusive in 7%.

Conclusion: This audit generated a checklist of 6 clinical and 3 radiological criteria, to differentiateHD from ID, including clinically (1) neonatal onset; (2) male sex; (3) congenital anomalies, dysmorphicfeatures and/or family history of HD; (4) delayed meconium passage; (5) enterocolitis or significantbowel obstruction/impaction; (6) tight segment on rectal examination; and radiologically (7)funneled transition zone or a reversed recto sigmoid index (<1); (8) delayed evacuation of contrastafter 24 h; and (9) absent distension of the anorectum with contrast, absent mucosal irregularities, and absent sigmoid looping.