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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

**Role of Endoscopic Ultrasound in Pediatric Patients: A Single Tertiary Center
Experience and Review of Literature**

Ahmed Youssef Altonbary, Hazem Hakim, Wagdi Elkashef

Abstract

BACKGROUND

Although endoscopic ultrasound (EUS) is now widely spread and has established role in adults, the utility of EUS and endoscopic ultrasound guided fine needle aspiration (EUS-FNA) in pediatrics is deficiently described compared to adults and supported only by few studie.

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Title: The Role of Endoscopic Ultrasound in Pediatric Patients: a Single Tertiary Center Experience and Review of Literature

Running title: The Role of EUS in Pediatric Patients

Authorship: Ahmed Y Altonbary, Hazem Hakim, Wagdi Elkashef

Abstract:

Background and aim: Although EUS is now widely spread and have established role in adults, the utility of EUS and EUS-FNA in pediatrics is deficient compared to adults and supported only by few studies The aim of this study is to report the experience of a single tertiary center in the use of EUS and EUS-FNA in pediatric population and to further assess its safety, feasibility, and clinical impact on the subsequent management.

Patients and methods: The study was designed as a retrospective study that included

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The present study illustrates the **experience** of a **single** high-volume **endoscopic center** in the application of EUS and EUS-FNA for several **pediatric** pancreatobiliary and GI pathologies. The case series included 47 procedures that were all technically successful, uneventful, and helpful for the clinical management of the **patients**, supporting the ...

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Background and aim: **Endoscopic** ultrasonography (EUS) with or without fine needle aspiration/biopsy (FNA/B) is a well-established diagnostic tool in adults for the evaluation and management of gastrointestinal (GI) tract disorders. Its use in children is still limited as well as **literature in pediatric** age is limited, although the application of EUS is now increasing.

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Endoscopic Ultrasound

A test done in combination of ultrasound imaging and endoscopy to monitor the organ for determination of digestive diseases.

Type: Imaging**Duration:** Usually 2-3 hours**Results available:** Usually 30-60 mins**Is Invasive:** Invasive

Conditions it may diagnose

[See all \(5+\)](#)

Colon Cancer

Common

Colorectal cancer, also known as bowel cancer, colon cancer, or rectal ...

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Neuroendocrine Cancer

Rare

A condition in which cancer develops in the neuroendocrine cells ...

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Preparation

- Do not consume any foods or beverages before at least 6 to 8 hours of the test.
- Laxatives and enema are given to clear the rectum.
- Medications should be taken and discontinued after consulting the doctor.
- Sedatives may be given to ease the procedure which may require an adult accompaniment.

During the test

- A thin tube with camera and transducer is passed through the mouth.