

# Trends of Negative Appendicectomy rate at a University Hospital; does pre-operative imaging play a role?

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#### Abstract:

Objective: To determine the trend of the negative appendicectomy rate and its' relationship with radiological imaging in patients presenting with right iliac fossa pain.

Methodology: Patients who underwent appendicectomy were identified using our electronic theatre database. Data regarding age, sex, histology, inflammatory markers, imaging, length of stay, readmission and any alternative diagnosis were collected retrospectively from January 2015 to June 2018.

Results: 802 patients were identified during the study period. 132 patients (16.5%) had a histologically normal appendix.

We found a consistent decrease in the negative appendicectomy rate of 20.9%, 18.1%, 14.0% and 6.3% in the years 2015, 2016, 2017 and 2018 respectively. The use of imaging has been variable at 78%, 75%, 66% and 83% in the years 2015, 2016, 2017 and 2018, respectively. Males more commonly underwent an appendicectomy comparing to females (53.6% versus 46.4%). However, females accounted for 69.7% of cases of negative appendicectomy.

In the negative appendicectomy group, 67.5% male did not have any imaging done in contrast to 7.6% females. The most common imaging modality used was ultrasound scan (52%). Computed tomography (CT) was performed in 9% of patients. 13% of patients had both ultrasound and CT scan.

Conclusions: There has been a decreasing trend in our negative appendicectomy rates. However, there is no clear relationship between the use of imaging and negative appendicectomy rate. Risk-benefit assessment of each patient should be carried out individually prior to imaging. We also recommend that scoring systems such as Appendicitis Inflammatory Response (AIR) and Alvarado prediction scores be used regularly along with consideration



given to imaging.

## Biography:

Mohammad Hasan is a doctor in Department of Surgery, Aberdeen Royal Infirmary, and Aberdeen, UK

## Publication of speakers:

- 1. Shadman, Mohammad & Badizad, Mohammad & Dehghanizadeh, Mostafa & Dehaghani, Amir. (2020). Developing a novel colloidal model for predicting asphaltene precipitation from crude oil by alkane dilution. Journal of Molecular Liquids. 113879. 10.1016/j.molliq.2020.113879.
- 2. Badizad, Mohammad & Koleini, Mohammad & Greenwell, Hugh & Ayatollahi, Shahab & Ghazanfari, Mohammad Hossein. (2020). A Deep Look into Dynamics of Saltwater Imbibition in a Calcite Nano-Channel: Temperature Impacts Capillarity Regimes. Langmuir.
- Hasan, Mohammad & Javed, Yousuf & Farooq, Ayesha. (2020). Understanding survival challenges of Tamil Nadu leather industry through content analysis and AHP. 41. 411-419. 10.1080/02522667.2020.1723937.
- Dehaghani, Amir & Badizad, Mohammad. (2019). Impact of Ionic Composition on Modulating Wetting Preference of Calcite Surface: Implication for Chemically Tuned Water Flooding. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 568. 10.1016/j.colsurfa.2019.02.009

#### International Conference on Surgery and Anesthesia | August 10, 2020 | London, UK

**Citation:** Mohammad Hasan; Trends of Negative Appendicectomy rate at a University Hospital; Does pre-operative imaging play a role?; Euro Surgery 2020: August 10, 2020; London, UK

J Med Imp Surg

Volume 5 and Issue S(1)