



# Appendiceal Adenocarcinoma Found By Surgery For Acute Appendicitis Is Associated With Older Age

Victor S Alemany, MD <sup>1,5</sup>, John P. Skendelas, MD <sup>1,2,3,4</sup>, Vincent Au MD <sup>3</sup>, Devika Rao, MD <sup>3</sup>, John McNelis, MD <sup>1,2,4</sup>, Peter K. Kim, MD, MMM, FACS <sup>1,2,4</sup>,

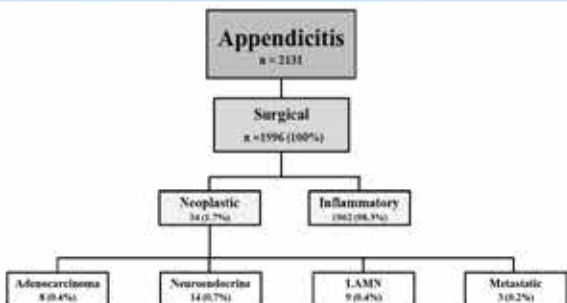
1. Jacobi Medical Center, Bronx. 2. North Central Bronx Hospital, Bronx. 3. Montefiore Medical Center. 4. Albert Einstein College of Medicine. 5. Metropolitan Hospital, Manhattan, NY.

## Introduction

The current management of acute appendicitis is increasingly controversial as non-operative management gains favor as a primary therapy. Appendiceal neoplasms are found often as an incidental finding in the setting of appendectomy for acute appendicitis. Criteria and screening for appendiceal neoplasms are not standardized among surgical societies.

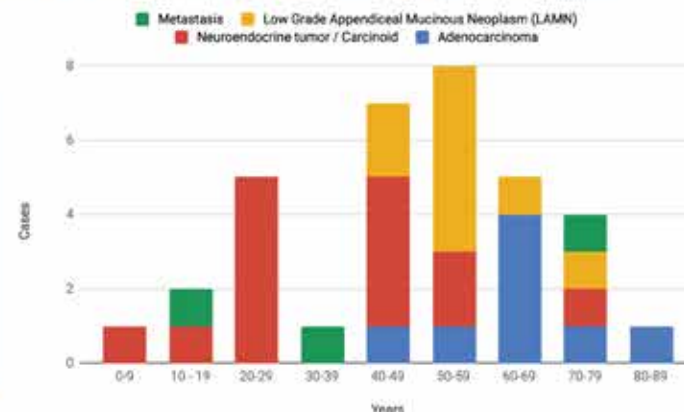
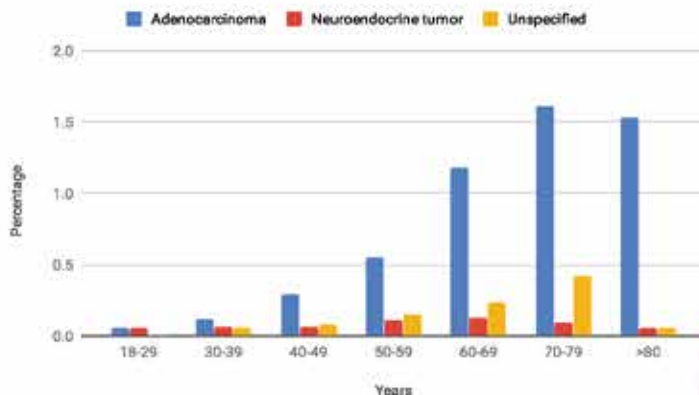
## Methods

We reviewed electronic medical records for a nine-year period (2010-2018) of patients who underwent appendectomy in two municipal hospitals in The Bronx, New York City. The authors also examined patients undergoing appendectomy during the same time interval through a query of the National Surgical Quality Improvement Program (NSQIP) database.



## Results

We found a 1.7% incidence of appendiceal neoplasms locally and a 0.53% incidence of appendiceal tumors in available national population sample. Both groups demonstrated an increased incidence of appendiceal carcinoma by age. This finding was most pronounced after the age of 40 in both local and national populations. In our study, the incidence of appendiceal tumors increased with each decade interval up to the age of 80 and, peaked at 2.1% in patients between 70 and 79 years.



## Conclusions

- The management of acute appendicitis involves a consideration of appendiceal neoplasm in patients over the age of 40.
- If non-operative therapy is undertaken, interval appendectomy or further cancer screening and surveillance should be performed.