

The Prevalence and Predictors of Negative Appendectomy in Jordan

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Introduction:

Acute appendicitis is a common health problem that needs surgical intervention. However, there are a wide range of complications such as negative appendectomy which subsequently complicates the patients' outcomes. Aim: to assess the prevalence and predictors of negative appendectomy among Jordanian patient attending a tertiary hospital in Amman. Methods: Across sectional correlation design was used to recruit 645 with a chief complaint of acute appendicitis who have undergone appendectomy in a tertiary hospital in Amman, Jordan between December 2017-November 2019. Frequency data were obtained from categorical data and percentage and mean for continuous data, point biserial correlation was used and binary logistic regression model to determine the predictors of negative appendectomy was applied. Results: This study was conducted among 645 (57% were females) of patients who had open appendectomy in a tertiary hospital in in Amman. The prevalence rate of negative appendectomy was 19.5%. The correlation model showed a significant association between negative appendectomy and; Age ($r_{pb} = -0.080$; $p < .001$), gender ($r_{pb} = 0.063$; $p < 0.05$), polymorph nuclear (PMN) cells ($r_{pb} = -0.0830$; $p < 0.001$), and heart rate ($r_{pb} = -0.0690$; $p < 0.05$), with a value of; However, binary logistic regression showed that the whole mode for negative appendectomy had a coefficient of determination X^2 : (4, N 645), R^2 (0.22); $p < 0.005$). Conclusion: This study demonstrated that, younger age, female gender, the number of polymorph nuclear cells, and bradycardia, are associated with negative appendectomy.

Biography

M. Darwish is an aspiring humanitarian surgeon, finished her surgical training in Jordan, and worked for Medicines Sans Frontiers (MSF) for more than a year, where she managed to gain new skills and improved her expertise in managing patients with severe war related injuries. She then joined a dynamic surgical team at Imperial College Healthcare Trust, where she gained knowledge and new advances in surgery. Currently she is based in Cardiff working in the general and vascular surgery department as a senior clinical fellow.

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