Abstract

Background: We should be careful though when considering conservation approach alone because misdiagnosis of an appendicular or colonic tumor will be dangerous to the patient. Therefore we should first confirm the diagnosis and exclude other pathologies using radiological investigations such as US, CT scan, MRI and colonoscopy according to Tannoury & Abboud., 2013.

Aim of the Study: To outline the treatment options of Appendicular mass in adults and empower Junior Surgeons with Knowledge of best treatment options.

Methodology: In this review regarding the conservative management of an appendicular mass, most of the authors agreed that it's still a highly acceptable approach for appendicular mass. And that this should be followed with interval Appendicectomy in patients with persistent right lower abdominal pain according to studies done by Garba & Ahmed., 2008.

Conclusion: From this Study we conclude the following: We recommend initially conservative approach to the management of appendicular mass after exclusions of other ileocaecal pathologies. No need for interval Appendicectomy, except in patients with persistent symptoms of appendicitis. Immediate surgical or Laparoscopic intervention in selected cases followed by conservative approach.

Keywords: Treatment Options, Inflammatory Appendicular, Mass Adults

Contents

Sub	ojects	Page
List o	f Abbreviations	III
List o	f Figures	IV
List o	f Tables	VI
Intro	duction	1
Aim o	of the Study	4
Chap	oter One	
Surgi	cal Anatomy of the Appendix	5
I.	Embryology	5
II.	Description and Location.	6
III.	Structure	8
IV.	Blood Supply & Lymphatics	9
V.	Nerve Supply	11
Cha	pter Two	
	p-physiology and Pathology of Acute Appendicitis and ndicular Mass	13
I.	Etiology	13
II. III. IV.	Pathophysiology and Pathology	19
Chap	oter Three	
Diagn	osis of Acute Appendicitis and Appendicular Mass	22
I.	Clinical Presentation.	22
:	i. History	22
II.	i. Clinical Examination	

🕏 List of Contents

III. IV. V.	Clinical Scoring System.29Imaging Studies.33Laparoscopy.37				
Chap	ter Four				
Treatn	nent of Acute Appendicitis				
I.	Uncomplicated Appendicitis				
i. ii. II.	Operative versus Conservative Management38Urgent versus Emergent40Operative Management41				
i.	Open Appendicectomy				
ii. iii.	Laparoscopic Appendicectomy45Postoperative Management50				
Chap	ter Five				
Treatn	nent options of Appendicular Mass				
I.	Primary Conservative management Followed by Delayed or Interval Appendectomy				
II.	Primary conservative management without interval Appendicectomy55				
III.	Operative Treatment, Conservative treatment and later interval Appendicectomy				
IV.	Immediate Appendicectomy following inflammatory mass resolution				
i.	Laparoscopic Vs Open immediate Appendicectomy				
Summ	ary and Conclusion62				
Refere	nces64				
Arabic Summary					

List of Abbreviations

Abbrev	Meaning
AA	Acute Appendicitis
CRP	C Reactive Protein
CT	Computer Tomography
GU	Genitourinary
IA	Interval Appendicectomy
LA	Laparoscopic Appendicectomy
MIS	Minimal Invasive Surgery
MRI	Magnetic Resonance Imaging
PA	Perforated Appendicitis
RCT	Randomized Controlled Trail
RIF	Right Iliac Fossa
UK	United Kingdom
US	Ultrasonography
WCC	White Cell Count

List of Figures

No.	<u>Figure</u>	Page
1	Development of caecum and appendix.	5
<u>2</u>	Elongation during development of appendix.	6
3	Positions of the of Appendix.	8
<u>4</u>	Microscopic Structure of the Appendix.	9
<u>5</u>	Appendicular artery within the mesoappendix.	10
<u>6</u>	Innervation of the Appendix.	12
<u>7</u>	Abdominal X-ray showing the presence of a large feacolith in the RIF.	14
<u>8</u>	Mucocoele of the appendix after excision.	18
<u>9</u>	Appendicular mass and gangrenous appendix.	18
<u>10</u>	Macroscopic Features of Acute Appendicitis.	19
<u>11</u>	Microscopic Picture of Acute appendicitis.	20
<u>12</u>	The Alvarado score: risk strata and clinical management strategy.	31
<u>13</u>	US Features of AA.	35
<u>14</u>	Gridiron and Lanz Incisions for Appendicectomy.	42
<u>15</u>	Mesoappendix being divided between artery forceps and ligated.	43
<u>16</u>	Appendix being crushed and ligated at its base and about to be divided.	43

Se List of Figures

No.	<u>Figure</u>	Page
<u>17</u>	Operating Room Setup for LA.	46
<u>18</u>	Port sites for LA.	47
<u>19</u>	Port with multichannel platform designed for single incision LA.	48
<u>20</u>	Important steps in Laparoscopic Appendicectomy.	49
<u>21</u>	Algorithm for management of appendiceal mass.	53

List of Tables

No.	<u>Table</u>	<u>Page</u>
<u>1</u>	Bacteria commonly isolated in perforated Appendicitis.	15
<u>2</u>	Levels of WCC, CRP and Bilirubin corresponding to optimal sensitivity and specificity for either AA or PA.	29
<u>3</u>	Tzanakis score and histological diagnosis.	33



Introduction





Aim of the Study





Surgical Anatomy of the Appendix





Patho-physiology and Pathology of Acute Appendicitis and Appendicular Mass





Diagnosis of Acute Appendicitis and Appendicular Mass





Treatment of Acute Appendicitis





Treatment Options of Appendicular Mass





Summary and Conclusion

