

ACKNOWLEDGMENT

Praise to “**Allah**” the most gracious and the most merciful without his help nothing could be reached.

I would like to express my gratitude to *Prof. Dr. Khaled Mohamed Moghazy*, Professor of Radiodiagnosis, faculty of medicine ,university of Alexandria , for his valuable support. It was a great honor to work under his supervision.

I am grateful to *Dr. Nevine Mohamed Farid El-Deeb* , Assistant Professor of Pathology , faculty of medicine ,university of Alexandria ,for her cooperation and valuable suggestions which contributed to fulfillment of this work.

I would like to express my sincere appreciation and gratitude to *Dr. Amr Mohamed El-Abd*, Lecturer of Radiodiagnosis, faculty of medicine ,university of Alexandria, for his precious advice, constructive guidance and valuable support.

I also wish to extend my abundant thanks to all members of staff of Radiodiagnosis department, who helped me during this work ,without their support I wouldn't be able to collect valuable data for the study.

I wish to express my deepest gratitude to my family, my dear husband and my beautiful daughter Reem for their endless love and support.

LIST OF TABLES

Table		page
I.	Distribution of the studied cases according to demographic data	37
II.	Distribution of the studied cases according to clinical presentation	37
III.	Distribution of the studied cases according to type of the tumor	39
IV.	Distribution of the studied cases of secondary peritoneal tumours according to CT appearance and peritoneal spaces affected	40
V.	Distribution of the studied cases according to pathological type of secondary peritoneal tumours	42
VI.	Distribution of the studied cases according to presence of calcifications and ascites	42
VII.	Distribution of the studied cases according to taken biopsy	43

LIST OF FIGURES

Figure		Page
(1)	Diagrams showing peritoneal development during the third week of embryo	2
(2)	Illustrations showing the embryological development of the dorsal and ventral mesentery	2
(3)	Falciform ligament	5
(4)	Peritoneal ligaments	5
(5)	Anatomy of the greater and lesser omenta	5
(6)	Peritoneal spaces	7
(7)	Inframesocolic peritoneal space	7
(8)	CT showing sites of occult peritoneal carcinomatosis in case of colonic adenocarcinoma	13
(9)	Pathology of peritoneal carcinomatosis from colonic adenocarcinoma	13
(10)	CT of pseudomyxoma peritonei	16
(11)	Pathological appearance of pseudomyxoma peritonei	16
(12)	peritoneal lymphomatosis	18
(13)	Gastrointestinal stromal tumor metastatic to the peritoneum	18
(14)	CT of peritoneal mesothelioma	21
(15)	Pathology of malignant mesothelioma	21
(16)	CT of cystic mesothelioma	24
(17)	Pathologic features of multicystic mesothelioma	24
(18)	CT of primary peritoneal serous carcinoma	25
(19)	Microscopic appearance of primary peritoneal serous carcinoma	25
(20)	Desmoplastic small round cell tumour	27
(21)	CT of leiomyomatosis peritonealis disseminata	28
(22)	CT of mesenteric desmoid tumor	32
(23)	CT of lymphoma	32
(24)	CT of carcinoid tumour	32

Figure		Page
(25)	Case (1)	45
(26)	Case (2)	46
(27)	Case (3)	47
(28)	Case (4)	48
(29)	Case (5)	49
(30)	Case (6)	50
(31)	Case (7)	51
(32)	Case (8)	52
(33)	Case (9)	53
(34)	Case (10)	54
(35)	Case (11)	55
(36)	Case (12)	56
(37)	Case (13)	57
(38)	Case (14)	58
(39)	Case (15)	58
(40)	Case (16)	59
(41)	Case (17)	60
(42)	Case (18)	61
(43)	Case (19)	62
(44)	Case (20)	62
(45)	Case (21)	63

LIST OF ABBREVIATION

BSO	:	Bilateral salpingio-oophrectomy
CA	:	Cancer antigen
CD	:	Clusters of differentiation
CECT	:	Contrast enhanced computed tomography
CT	:	Computed tomography
D	:	Duodenum
DWI	:	Diffusion weighted image
EVOCAPE	:	Evolution of peritoneal carcinomatosis
FDG	:	Flurodeoxy d-glucose
GHL	:	Gastrohepatic ligament
GIST	:	Gastrointestinal tumors
GO	:	Greater omentum
HDL	:	Hepato duodenal ligament
HHV	:	Human herpes virus
IV	:	Intravenous
L	:	Liver
LIMC	:	Left infra mesocolic space
LO	:	Lesser omentum
LPC	:	Left paracolic space
LS	:	Lesser sac
LSI	:	Inferior recess of lesser sac
LSP	:	Left subphrenic space
LSS	:	Superior recess of lesser sac
MDCT	:	Multi detector computed tomography
MRI	:	Magnetic resonance imaging
P	:	Pancreas
PET	:	Positron emission tomography
RIMC	:	Right infra mesocolic space
RPC	:	Right paracolic space
RSP	:	Right subphrenic space
SP	:	Spleen
ST	:	Stomach

TAH : Total abdominal hysterectomy
TB : Tuberculosis
US : Ultrasonography