Ovarian, Fallopian Tube, and Primary Peritoneal Carcinoma (ICD-O-3 C56; ICD-O-3 C57)

The definitions of the T, N, and M categories correspond to the FIGO stages. Both systems are included for comparison.

Rules for Classification

The classification applies to malignant ovarian neoplasms of both epithelial and stromal origin including those of borderline malignancy or of low malignant potential1 corresponding to 'common epithelial tumours' of the earlier terminology.

The classification also applies to carcinoma of the fallopian tubes and to carcinomas of the peritoneum (Müllerian origin).

There should be histological confirmation of the disease and division of cases by histological type.

The following are the procedures for assessing T, N, and M categories:

T categories Clinical examination, imaging, surgical exploration (laparoscopy/ laparotomy)

Clinical examination, imaging, surgical exploration (laparoscopy/ N categories laparotomy)

Clinical examination, imaging, surgical exploration (laparoscopy/ M categories laparotomy)

The FIGO stages are based on surgical staging. (TNM stages are based on clinical and/or pathological classification.)

Regional Lymph Nodes

The regional lymph nodes are the hypogastric (obturator), common iliac, external iliac, lateral sacral, para-aortic, and retroperitoneal nodes*.

* including intra-abdominal node such as greater omatal modes.

TNM Clinical Classification

T – Primary Tumour

TNM categories	FIGO Stage	Definition	
TX		Primary tumour cannot be assessed	
TO .		No evidence of primary tumour	
T1	I	Tumour limited to the ovaries (one or both) or fallopian tube(s)	
T1a	IA	Tumour limited to one ovary; capsule intact, no tumour on ovarian surface or fallopian tube surface; no malignant cells in ascites or peritoneal washings	
T1b	IB	Tumour limited to both ovaries or fallopian tubes; capsule intact, no tumour on ovarian or fallopian tube surface; no malignant cells in ascites or peritoneal washings	
T1c	IC	Tumour limited to one or both ovaries or fallopian tubes with any of the following:	
T1c1		Surgical spill	
T1c2		Capsule ruptured before surgery or tumour on ovarian or fallopian tube surface	
T1c3		Malignant cells in ascites or peritoneal washings	
T2	II	Tumour involves one or both ovaries or fallopian tubes with pelvic extension (below the pelvic brim) or primary peritoneal cance	
T2a	IIA	Extension and/or implants on uterus and/or fallopian tube(s) and or ovary(ies)	
T2b	IIB	Extension to other pelvic tissues, including bowel within the pelvis	
T3 and/or N1	IIIª	Tumour involves one or both ovaries or fallopian tubes or primary peritoneal carcinoma with cytologically or histologically confirmed spread to the peritoneum outside the pelvic and/or metastass to the restorent neal lymph modes	

(Continued)

TNM categories	FIGO Stage	Definition	
N1		Retroperitoneal lymph node metastasis only	
N1a	IIIA1i	Lymph node metastasis not more than 10 mm in greatest dimension	
N1b	IIIA1ii	Lymph node metastasis more than 10 mm in greatest dimension	
T3a any N	IIIA2	Microscopic extrapelvic (above the pelvic brim) peritoneal involvement with or without retroperitoneal lymph node, including bowel involvement	
T3b any N	IIIB	Macroscopic peritoneal metastasis beyond pelvic brim 2 cm, or less in greatest dimension, including bowel involvement outside the pelvis with or without retroperitoneal nodes	
T3c any N	IIIC	Peritoneal metastasis beyond pelvic brim more than 2 cm in greatest dimension and/or retroperitoneal lymph node metastasis (includes extension of tumour to capsule of liver and spleen without parenchymal involvement of either organ)	
M1	IV	Distant metastasis (excludes peritoneal metastāsis)	
M1a	IVA	Pleural effusion with positive cytology	
M1b ^b	IVB	Parenchymal metastasis and metastasis to extra-abdominal organs (including inguinal lymph nodes and lymph nodes outside the abdominal cavity)	

Notes

^a Liver capsule metastasis is T3/stage III.

^b Liver parenchymal metastasis M1/stage IV.

N - Regional Lymph Nodes

NX Regional lymph nodes cannot be assessed

NO No regional lymph node metastasis

N1 Regional lymph node metastasis

IIIA1 Retroperitoneal lymph node metastasis only

Lymph node metastasis no more than 10 mm in IIIA1i

greatest dimension

N1b IIIA1ii Lymph node metastasis more than 10 mm in greatest

dimension

M - Distant Metastasis

M0 No distant metastasis

M1 Distant metastasis

pTNM Pathological Classification

The pT and pN categories correspond to the T and N categories. For pM see page 8.

Histological examination of a pelvic lymphadenectomy specimen pN0will ordinarily include 10 or more lymph nodes. If the lymph nodes are negative, but the number ordinarily examined is not met, classify as pN0.

Stage

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Stage I	T1	N0	M0
Stage IA	Tla	N0	M0
Stage IB	T1b	N0	M0
Stage IC	T1c	N0	M0
Stage II	T2	N0	M0
Stage IIA	T2a	N0	M0
Stage IIB	T2b	N0	M0
Stage IIC	T2c	N0	M0
Stage IIIA1	T1/2	N1	M0
Stage IIIA2	T3a	N0, N1	M0
Stage IIIB	T3b	N0, N1	M0
Stage IIIC	T3c	N0, N1	M0
	any T	anyN	MI
TVA	ans T	any N	MIA
TVB	ang T	any N	MIb

Prognostic Factors Grid – Tumours of the Ovary, Fallopian Tube and Peritoneal Carcinoma

Prognostic risk factor for epithelial ovarian cancer

Prognostic factors	Tumour related	Host related	Environment related
Essential	Histological type Grade Surgical stage Residual disease	Age Co-morbidities Performance status	Maximum diameter of residual disease after optimal debulking
Additional	Nodal involvement Site of metastasis DNA ploidy CA125	BRCA 1 Genetic predisposition	Type of chemotherapy CA125 fall Ultra-radical surgery
New and promising	Molecular profile Cellular proliferative activity Tumour angiogenesis markers p53 expression Expression of human kallikrein (hK) genes, particularly hKs 6-10-11		Interval debulking surgery (IDS) Neoadjuvant chemotherapy

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Reference

1 Tavassoli FA, Devilee P (eds). WHO Classification of Tumours. Pathology and Genetics. Tumours of the Breast and Female Genital Organs. Lyon, France: IACR Press, 2003.