



## Protocol for the Examination of Specimens From Patients With Primary Carcinoma of the Vagina

**Version:** Vagina 4.0.0.1

**Protocol Posting Date:** June 2017

Includes pTNM requirements from the 8<sup>th</sup> Edition, AJCC Staging Manual, and 2015 FIGO Cancer Report

**For accreditation purposes, this protocol should be used for the following procedures AND tumor types:**

Procedure	Description
Resection	Includes vaginectomy
Tumor Type	Description
Carcinoma	Includes squamous cell carcinoma, adenocarcinoma and variants, carcinosarcoma, neuroendocrine carcinoma, and mixed epithelial – neuroendocrine tumors

**This protocol is NOT required for accreditation purposes for the following:**

Procedure
Biopsy
Primary resection specimen with no residual cancer (eg, following neoadjuvant therapy)
Cytologic specimens

**The following tumor types should NOT be reported using this protocol:**

Tumor Type
Lymphoma (consider the Hodgkin or non-Hodgkin Lymphoma protocols)
Sarcoma (consider the Soft Tissue protocol)

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### Accreditation Requirements

This protocol can be utilized for a variety of procedures and tumor types for clinical care purposes. For accreditation purposes, only the definitive primary cancer resection specimen is required to have the core and conditional data elements reported in a synoptic format.

- Core data elements are required in reports to adequately describe appropriate malignancies. For accreditation purposes, essential data elements must be reported in all instances, even if the response is “not applicable” or “cannot be determined.”
- Conditional data elements are only required to be reported if applicable as delineated in the protocol. For instance, the total number of lymph nodes examined must be reported, but only if nodes are present in the specimen.
- Optional data elements are identified with “+” and although not required for CAP accreditation purposes, may be considered for reporting as determined by local practice standards.

The use of this protocol is not required for recurrent tumors or for metastatic tumors that are resected at a different time than the primary tumor. Use of this protocol is also not required for pathology reviews performed at a second institution (ie, secondary consultation, second opinion, or review of outside case at second institution).

### Synoptic Reporting

All core and conditionally required data elements outlined on the surgical case summary from this cancer protocol must be displayed in synoptic report format. Synoptic format is defined as:

- Data element: followed by its answer (response), outline format without the paired "Data element: Response" format is NOT considered synoptic.
- The data element must be represented in the report as it is listed in the case summary. The response for any data element may be modified from those listed in the case summary, including “Cannot be determined” if appropriate.
- Each diagnostic parameter pair (Data element: Response) is listed on a separate line or in a tabular format to achieve visual separation. The following exceptions are allowed to be listed on one line:
  - Anatomic site or specimen, laterality, and procedure
  - Pathologic Stage Classification (pTNM) elements
  - Negative margins, as long as all negative margins are specifically enumerated where applicable
- The synoptic portion of the report can appear in the diagnosis section of the pathology report, at the end of the report or in a separate section, but all Data element: Responses must be listed together in one location

Organizations and pathologists may choose to list the required elements in any order, use additional methods in order to enhance or achieve visual separation, or add optional items within the synoptic report. The report may have required elements in a summary format elsewhere in the report IN ADDITION TO but not as replacement for the synoptic report i.e. all required elements must be in the synoptic portion of the report in the format defined above.

### CAP Laboratory Accreditation Program Protocol Required Use Date: March 2018\*

\* Beginning January 1, 2018, the 8th edition AJCC Staging Manual should be used for reporting pTNM.

## CAP Vagina Protocol Summary of Changes

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### Version 4.0.0.1 errata:

Primary Tumor (AJCC errata)

- **MODIFIED** \_\_\_ pT3: Tumor extending to the pelvic sidewall<sup>#</sup> and/or involving the lower third of the vagina and/or causing hydronephrosis or nonfunctioning kidney

### Version 4.0.0.0:

#### The following data elements were modified:

Pathologic Staging Classification (pTNM) has been updated per AJCC 8<sup>th</sup> Edition. Additional revisions to this protocol have been made to support the AJCC 8<sup>th</sup> Edition elements and prognostic factors important to the treatment of the patient.

Addition of Other Tissue/Organ Involvement Section

## Surgical Pathology Cancer Case Summary

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Protocol posting date: June 2017

### VAGINA: Biopsy

**Note: This case summary is recommended for reporting biopsy specimens, but is not required for accreditation purposes.**

**Select a single response unless otherwise indicated.**

#### + Procedure (Notes A through C)

- +  Incisional biopsy
- +  Other (specify): \_\_\_\_\_
- +  Not specified

#### + Tumor Site

- +  Vagina, upper third
- +  Vagina, middle third
- +  Vagina, lower third
- +  Not specified

#### + Histologic Type (Note D)

- +  Squamous cell carcinoma, NOS
- +  Squamous cell carcinoma, keratinizing
- +  Squamous cell carcinoma, nonkeratinizing
- +  Squamous cell carcinoma, basaloid
- +  Squamous cell carcinoma, verrucous
- +  Squamous cell carcinoma, warty
- +  Squamous cell carcinoma, papillary
- +  Adenocarcinoma, NOS
- +  Mucinous carcinoma, NOS
- +  Endometrioid carcinoma
- +  Clear cell carcinoma
- +  Mesonephric carcinoma
- +  Adenosquamous carcinoma
- +  Adenoid basal carcinoma
- +  Small cell neuroendocrine carcinoma
- +  Large cell neuroendocrine carcinoma
- +  Undifferentiated carcinoma
- +  Carcinosarcoma
- +  Other histologic type not listed (specify): \_\_\_\_\_
- +  Carcinoma, type cannot be determined

*Note: Microinvasive/superficial invasive carcinoma is not currently a recognized entity in the vagina, and thus the term is not used.*

#### + Histologic Grade (Note E)

- +  G1: Well differentiated
- +  G2: Moderately differentiated
- +  G3: Poorly differentiated
- +  G4: Undifferentiated
- +  Other (specify): \_\_\_\_\_
- +  GX: Cannot be assessed
- +  Not applicable

+ Data elements preceded by this symbol are not required for accreditation purposes. These optional elements may be clinically important but are not yet validated or regularly used in patient management.

**+ Tumor Extension**

- + \_\_\_ Stromal invasion
- + \_\_\_ Muscle invasion
- + \_\_\_ Cannot be assessed

**+ Margins**

- + \_\_\_ Not applicable
- + \_\_\_ Cannot be assessed
- + \_\_\_ Uninvolved by tumor
- + \_\_\_ Involved by tumor
  - + Specify site: \_\_\_\_\_

**+ Additional Pathologic Findings (select all that apply) (Note G)**

- + \_\_\_ None identified
- + \_\_\_ High-grade squamous intraepithelial neoplasia (VAIN 2-3)
- + \_\_\_ Low-grade squamous intraepithelial neoplasia (VAIN 1)
- + \_\_\_ Condyloma accuminatum
- + \_\_\_ Adenocarcinoma in situ (AIS)
- + \_\_\_ Atypical adenosis
- + \_\_\_ Other (specify): \_\_\_\_\_

**+ Comment(s)**

**Surgical Pathology Cancer Case Summary**

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Protocol posting date: June 2017

**VAGINA: Resection****Select a single response unless otherwise indicated.****Procedure (Notes A through C)**

- Excision  
 Partial vaginectomy  
 Radical vaginectomy  
 Other (specify): \_\_\_\_\_  
 Not specified

**Tumor Site (select all that apply)**

- Vagina, upper third  
 Vagina, middle third  
 Vagina, lower third  
 Vagina, further delineation not specified

**Tumor Size**

- Greatest dimension (centimeters): \_\_\_\_ cm  
 + Additional dimensions (centimeters): \_\_\_\_ x \_\_\_\_ cm  
 Cannot be determined (explain): \_\_\_\_\_

**Histologic Type (Note D)**

- Squamous cell carcinoma, NOS  
 Squamous cell carcinoma, keratinizing  
 Squamous cell carcinoma, nonkeratinizing  
 Squamous cell carcinoma, basaloid  
 Squamous cell carcinoma, verrucous  
 Squamous cell carcinoma, warty  
 Squamous cell carcinoma, papillary  
 Adenocarcinoma, NOS  
 Mucinous carcinoma, NOS  
 Endometrioid carcinoma  
 Clear cell carcinoma  
 Mesonephric carcinoma  
 Adenosquamous carcinoma  
 Adenoid basal carcinoma  
 Small cell neuroendocrine carcinoma  
 Large cell neuroendocrine carcinoma  
 Undifferentiated carcinoma  
 Carcinosarcoma  
 Other histologic type not listed (specify): \_\_\_\_\_  
 Carcinoma, type cannot be determined

*Note: Microinvasive/superficial invasive carcinoma is not currently a recognized entity in the vagina, and thus the term is not used.*

**Histologic Grade (Note E)**

- G1: Well differentiated  
 G2: Moderately differentiated  
 G3: Poorly differentiated  
 G4: Undifferentiated

+ Data elements preceded by this symbol are not required for accreditation purposes. These optional elements may be clinically important but are not yet validated or regularly used in patient management.

- Other (specify): \_\_\_\_\_
- GX: Cannot be assessed
- Not applicable

**Other Tissue/ Organ Involvement (select all that apply)**

*Note: Any organ not selected is either not involved or was not submitted.*

- Not applicable
- Not identified
- Paravaginal tissues
- Pelvic sidewall
- Vagina, lower third
- Bladder mucosa
- Rectal mucosa
- Other organs/tissue (specify): \_\_\_\_\_
- Cannot be determined (explain): \_\_\_\_\_

**Margins**

Peripheral Margin

- Cannot be assessed (explain): \_\_\_\_\_
- Uninvolved by invasive carcinoma
  - + Distance of invasive carcinoma from margin (millimeters): \_\_\_\_ mm
  - + Specify location: \_\_\_\_\_
- Involved by invasive carcinoma
  - Specify location(s), if possible: \_\_\_\_\_
- Uninvolved by intraepithelial neoplasia
- Involved by high-grade squamous intraepithelial lesion (VAIN 2-3)
  - + Specify location(s): \_\_\_\_\_
- Involved by adenocarcinoma in situ (AIS)
  - + Specify location(s): \_\_\_\_\_

Deep Margin

- Cannot be assessed (explain): \_\_\_\_\_
- Uninvolved by invasive carcinoma
  - + Distance of invasive carcinoma from margin (millimeters): \_\_\_\_ mm
  - + Specify location: \_\_\_\_\_
- Involved by invasive carcinoma
  - Specify location(s), if possible: \_\_\_\_\_
- Uninvolved by intraepithelial neoplasia
- Involved by high-grade squamous intraepithelial lesion (VAIN 2-3)
  - + Specify location(s): \_\_\_\_\_
- Involved by adenocarcinoma in situ (AIS)
  - + Specify location(s): \_\_\_\_\_

**Lymphovascular Invasion**

- Not identified
- Present
- Cannot be determined (explain): \_\_\_\_\_

**Regional Lymph Nodes**

*Note: For upper two-thirds of the vagina, the following are considered regional lymph nodes: pelvic, parametrial, obturator, internal iliac (hypogastric), external iliac, common iliac, sacral, presacral, and para-aortic. For lower third of the vagina, the following are considered regional lymph nodes: inguinal and femoral. Any involved nonregional nodes should be categorized as metastases (pM1) and commented on in the distant metastasis section. Presence of isolated tumor cells no greater than 0.2 mm in regional lymph node(s) is considered N0 (i+).*

No lymph nodes submitted or found

Lymph Node Examination (required only if lymph nodes are present in specimen)

Number of Nodes with Metastasis (excludes ITCs): \_\_\_\_\_

Number cannot be determined (explain): \_\_\_\_\_

Number of Nodes with Isolated Tumor Cells (ITCs) (0.2 mm or less) (if applicable)<sup>#</sup>: \_\_\_\_\_

Number cannot be determined (explain): \_\_\_\_\_

<sup>#</sup> Reporting the number of lymph nodes with isolated tumor cells is required only in the absence of metastasis greater than 0.2 mm in other lymph nodes.

Specify Lymph Node(s) with Tumor (if applicable)<sup>#</sup>: \_\_\_\_\_

<sup>#</sup> Note: Information should include location and laterality of lymph nodes with tumor.

+ Additional Lymph Node Findings (select all that apply)

+  None identified

+  Extranodal extension

+  Fixed/ulcerated nodes

+  Other (specify): \_\_\_\_\_

+  Cannot be determined

Total Number of Nodes Examined: \_\_\_\_\_

Number cannot be determined (explain): \_\_\_\_\_

Specify Site(s)<sup>#</sup>: \_\_\_\_\_

<sup>#</sup> Note: Information should include location and laterality of lymph nodes examined.

**Pathologic Stage Classification (pTNM, AJCC 8<sup>th</sup> Edition) (Note F)**

*Note: Reporting of pT, pN, and (when applicable) pM categories is based on information available to the pathologist at the time the report is issued. Only the applicable T, N, or M category is required for reporting; their definitions need not be included in the report. The categories (with modifiers when applicable) can be listed on 1 line or more than 1 line.*

TNM Descriptors (required only if applicable) (select all that apply)

m (multiple primary tumors)

r (recurrent)

y (posttreatment)

Primary Tumor (pT)

pTX: Primary tumor cannot be assessed

pT0: No evidence of primary tumor

pT1: Tumor confined to the vagina

pT1a: Tumor confined to the vagina, measuring ≤2.0 cm

pT1b: Tumor confined to the vagina, measuring >2.0 cm

pT2: Tumor invading paravaginal tissues but not to pelvic sidewall

pT2a: Tumor invading paravaginal tissues but not to pelvic wall, measuring ≤2.0 cm

pT2b: Tumor invading paravaginal tissues but not to pelvic wall, measuring >2.0 cm

pT3: Tumor extending to the pelvic sidewall<sup>#</sup> and/or causing hydronephrosis or nonfunctioning kidney

+ Data elements preceded by this symbol are not required for accreditation purposes. These optional elements may be clinically important but are not yet validated or regularly used in patient management.

\_\_\_ pT4: Tumor invading the mucosa of the bladder or rectum and/or extending beyond the true pelvis (bullous edema is not sufficient evidence to classify a tumor as T4)

# *Pelvic sidewall is defined as the muscle, fascia, neurovascular structures, or skeletal portions of the bony pelvis. On rectal examination, there should be no cancer-free space between the tumor and pelvic sidewall. Tumor causing hydronephrosis or nonfunctioning kidney is an indirect indication of pelvic sidewall involvement.*

#### Regional Lymph Nodes (pN)

- \_\_\_ pNX: Regional lymph nodes cannot be assessed  
 \_\_\_ pN0: No regional lymph node metastasis  
 \_\_\_ pN0(i+): Isolated tumor cells in regional lymph node(s) no greater than 0.2 mm  
 \_\_\_ pN1: Pelvic or inguinal lymph node metastasis

#### Distant Metastasis (pM) (required only if confirmed pathologically in this case)

- \_\_\_ pM1: Distant metastasis  
 Specify site(s), if known: \_\_\_\_\_

#### + FIGO Stage (2015 FIGO Cancer Report)

- + \_\_\_ I: Carcinoma is limited to the vaginal wall  
 + \_\_\_ II: Carcinoma has involved the para-vaginal tissue but has not extended to the pelvic wall  
 + \_\_\_ III: Carcinoma has extended to the pelvic wall and/or involving the lower third of the vagina and/or causing hydronephrosis or nonfunctioning kidney  
 + \_\_\_ IV: Carcinoma has extended beyond the true pelvis or has involved the mucosa of the bladder or rectum (bullous edema as such does not permit a case to be allotted to stage IV)  
 + \_\_\_ IVA: Tumor invades bladder and/or rectal mucosa and/or direct extension beyond the true pelvis  
 + \_\_\_ IVB: Spread to distant organs

#### **+ Additional Pathologic Findings (select all that apply) (Note G)**

- + \_\_\_ None identified  
 + \_\_\_ Low-grade squamous intraepithelial lesion (VAIN 1)  
 + \_\_\_ High-grade squamous intraepithelial lesion (VAIN 2-3)  
 + \_\_\_ Condyloma acuminatum  
 + \_\_\_ Adenocarcinoma in situ (AIS)  
 + \_\_\_ Atypical adenosis  
 + \_\_\_ Other (specify): \_\_\_\_\_

#### **+ Comment(s)**



## Explanatory Notes

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### A. Prenatal DES Exposure

Prenatal exposure to diethylstilbestrol (DES) or related synthetic drugs was relatively common in the United States and other countries until 1971, when its relation to clear cell adenocarcinomas of the vagina and cervix led to proscription of these drugs by the Food and Drug Administration. From the 1970s to the turn of the 21st century, most patients with clear cell adenocarcinoma of the vagina had a history of DES exposure.<sup>1</sup> As this cohort ages, the diagnosis has been less common, and most women with this diagnosis currently have no DES exposure history. Furthermore, it has been reported that these patients have significantly worse outcomes than do patients with history of DES exposure and patients with squamous cell carcinoma.<sup>2</sup> A bimodal age peak for DES-related carcinoma has, however, been recently reported, and therefore a history of this type of prenatal drug exposure should alert the pathologist to the possible presence of those tumors and associated lesions.<sup>3,4</sup>

Ectropion (erosion, eversion) of the cervix, which is characterized by the appearance of glandular (columnar) epithelium outside the external os of the cervix, is seen in approximately 90% of women exposed to DES in utero (but is often seen in nonexposed women as well). Approximately one-third of patients exposed to DES have 1 or more gross structural abnormalities of the cervix.<sup>1,4</sup>

The fallopian tubes are abnormal in some women exposed to DES in the form of hypoplasia or defects demonstrated on hysterosalpingographic examination.<sup>4</sup>

### B. Prior Tumors and Operations

A history of dysplasia, carcinoma in situ, or invasive carcinoma of the cervix, as well as knowledge of the tumor's microscopic features, may be essential in the determination whether a subsequent vaginal tumor is a recurrent or new tumor. Also, a history of a carcinoma higher in the female genital tract may influence the interpretation of a neoplasm that is detected in a specimen from the vagina. Prior pathology slides and reports should be obtained and reviewed if a review is deemed essential by the clinician or pathologist for optimal pathologic evaluation of the present specimen.

### C. Clinical Findings and DES Exposure

Naked-eye examination, colposcopy, and iodine staining of the cervix and vagina may disclose a variety of changes highly suspicious of prenatal DES exposure, such as cervical hypoplasia, pseudopolyp, or coxcomb deformity,<sup>4</sup> and vaginal adenosis or ridge, any of which should alert the pathologist to look carefully for DES changes.<sup>4</sup>

### D. Histologic Type

The World Health Organization (WHO) classification and nomenclature of vaginal tumors is recommended because of its wide acceptance.<sup>5</sup> The most common subtype is squamous cell carcinoma. However, when such tumor simultaneously involves the cervix or the vulva and the vagina, the tumor is considered to originate from the cervix or vulva, with secondary extension to the vagina. Also, when an adenocarcinoma is present in the vagina, it is important to keep in mind that many of those tumors represent secondary involvement either by direct extension or metastases, more commonly from the endometrium, colorectal, ovary, vulva, urethra, and urinary bladder. Although not included in the current WHO classification, primary intestinal type adenocarcinoma has recently been described in the vagina.<sup>6</sup> These tumors usually arise in a background of benign adenomatous lesion. Awareness of this new subtype is necessary to avoid misdiagnosis of a metastatic colorectal adenocarcinoma.<sup>6-8</sup>

### WHO Classification<sup>5</sup>

#### Precancerous Lesions and Carcinomas of the Vagina (Modified)

##### Epithelial Tumors

##### Squamous tumors and precursors

Squamous intraepithelial lesions (SIL)	Vaginal intraepithelial neoplasia (VAIN)
Low-grade SIL (LSIL)	VAIN 1
High-grade SIL (HSIL)	VAIN 2-3

## Squamous cell carcinoma, not otherwise specified

- Keratinizing
- Nonkeratinizing
- Papillary
- Basaloid
- Verrucous
- Warty

## Glandular tumors

- Clear cell carcinoma
- Endometrioid adenocarcinoma
- Mucinous adenocarcinoma
- Mesonephric adenocarcinoma

## High-grade neuroendocrine carcinoma

- Small cell neuroendocrine carcinoma
- Large cell neuroendocrine carcinoma

## Other epithelial tumors

- Adenosquamous carcinoma
- Adenoid basal carcinoma
- Undifferentiated carcinoma

**E. Histologic Grade**

No specific grading system for vaginal cancers is recommended. For the sake of uniformity, however, it is suggested that 3 grades be used, as shown below, with grades 1 to 3 assigned to carcinomas showing squamous or glandular differentiation.

Grade X	Cannot be assessed
Grade 1	Well differentiated
Grade 2	Moderately differentiated
Grade 3	Poorly differentiated
Grade 4	Undifferentiated

**F. Pathologic Stage Classification**

The TNM staging system for vaginal cancer endorsed by the American Joint Committee on Cancer (AJCC) and the International Union against Cancer (UICC),<sup>12,13</sup> and the parallel system formulated by the International Federation of Gynecology and Obstetrics (FIGO)<sup>14</sup> are recommended.

By AJCC/UICC convention, the designation “T” refers to a primary tumor that has not been previously treated. The symbol “p” refers to the pathologic classification of the TNM, as opposed to the clinical classification, and is based on gross and microscopic examination. pT entails a resection of the primary tumor or biopsy adequate to evaluate the highest pT category, pN entails removal of nodes adequate to validate lymph node metastasis, and pM implies microscopic examination of distant lesions. Clinical classification (cTNM) is usually carried out by the referring physician before treatment during initial evaluation of the patient or when pathologic classification is not possible.

Pathologic staging is usually performed after surgical resection of the primary tumor. Pathologic staging depends on pathologic documentation of the anatomic extent of disease, whether or not the primary tumor has been completely removed. If a biopsied tumor is not resected for any reason (eg, when technically unfeasible) and if the highest T and N categories or the M1 category of the tumor can be confirmed microscopically, the criteria for pathologic classification and staging have been satisfied without total removal of the primary cancer.

**TNM Descriptors**

For identification of special cases of TNM or pTNM classifications, the “m” suffix and “y,” “r,” and “a” prefixes are used. Although they do not affect the stage grouping, they indicate cases needing separate analysis.

The “m” suffix indicates the presence of multiple primary tumors in a single site and is recorded in parentheses: pT(m)NM.

The “y” prefix indicates those cases in which classification is performed during or following initial multimodality therapy (ie, neoadjuvant chemotherapy, radiation therapy, or both chemotherapy and radiation therapy). The cTNM or pTNM category is identified by a “y” prefix. The ycTNM or ypTNM categorizes the extent of tumor actually present at the time of that examination. The “y” categorization is not an estimate of tumor prior to multimodality therapy (ie, before initiation of neoadjuvant therapy).

The “r” prefix indicates a recurrent tumor when staged after a documented disease-free interval, and is identified by the “r” prefix: rTNM.

The “a” prefix designates the stage determined at autopsy: aTNM.

### Additional Descriptors

#### Residual Tumor (R)

Tumor remaining in a patient after therapy with curative intent (eg, surgical resection for cure) is categorized by a system known as R classification, shown below.

RX	Presence of residual tumor cannot be assessed
R0	No residual tumor
R1	Microscopic residual tumor
R2	Macroscopic residual tumor

For the surgeon, the R classification may be useful to indicate the known or assumed status of the completeness of a surgical excision. For the pathologist, the R classification is relevant to the status of the margins of a surgical resection specimen. That is, tumor involving the resection margin on pathologic examination may be assumed to correspond to residual tumor in the patient and may be classified as macroscopic or microscopic according to the findings at the specimen margin(s).

#### T Category Considerations

##### Lymphovascular Invasion (LVI)

LVI indicates whether microscopic lymphovascular invasion is identified. LVI includes lymphatic invasion, vascular invasion, or lymphovascular invasion. By AJCC/UICC convention, LVI does not affect the T category indicating local extent of tumor unless specifically included in the definition of a T category.

#### N Category Considerations

Isolated tumor cells (ITCs) are single cells or small clusters of cells not more than 0.2 mm in greatest dimension. Lymph nodes or distant sites with ITCs found by either histologic examination (eg, immunohistochemical evaluation for cytokeratin) or nonmorphological techniques (eg, flow cytometry, DNA analysis, polymerase chain reaction [PCR] amplification of a specific tumor marker) should be so identified. There is currently no guidance in the literature as to how these patients should be coded; until more data are available, they should be coded as “N0(i+)” with a comment noting how the cells were identified.

### TNM and FIGO Staging Systems for Vaginal Carcinoma

#### Primary Tumor (T)

TNM Category	FIGO Stage	Definition
TX	(--)	Primary tumor cannot be assessed
T0	(--)	No evidence of primary tumor
Tis	0	Carcinoma in situ
T1	I	Tumor confined to vaginal wall
T2	II	Tumor invades paravaginal tissues but not the pelvic sidewall <sup>#</sup>

T3	III	Tumor extends to pelvic sidewall# and/or causing hydronephrosis or nonfunctioning kidney
T4	IVA	Tumor invades mucosa of bladder or rectum and/or extends beyond the true pelvis (bullous edema is not sufficient to classify a tumor as T4)
(M1)	IVB	Distant metastasis (excludes peritoneal metastasis)

# Pelvic sidewall is defined as muscle, fascia, neurovascular structures, or skeletal portions of the bony pelvis. Tumor causing hydronephrosis or nonfunctioning kidney is an indirect indication of pelvic sidewall involvement.

**Regional Lymph Nodes (N): TNM**

NX	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Pelvic or inguinal lymph node metastasis

**Distant Metastasis (M): TNM**

M0	No distant metastasis
M1	Distant metastasis

**Stage Groupings**

AJCC/UICC TNM		FIGO		
Stage 0	Tis	N0	M0	Stage 0
Stage I	T1	N0	M0	Stage I
Stage II	T2	N0	M0	Stage II
Stage III	T1	N1	M0	Stage III
	T2	N1	M0	
	T3	N0, N1	M0	
Stage IVA	T4	Any N	M0	Stage IVA
Stage IVB	Any T	Any N	M1	Stage IVB

**G. Other Lesions**

Squamous dysplasia or carcinoma in situ, adenocarcinoma in situ, or atypical adenosis, particularly if such changes are at the resection margin, may increase the frequency of recurrent tumor. Also, few cases of primary invasive carcinoma of vagina have been reported to occur in association with severe vaginal prolapse.<sup>9-11</sup>

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