

## Vaginal Cancer Subtypes

Vaginal cancer commonly occurs within the upper third of the posterior wall of the vagina. It can be categorized into three main subtypes. The most common subtype is squamous cell carcinoma, which usually originates from cervical squamous cell carcinoma. The next subtype, clear cell adenocarcinoma, is associated with diethylstilbestrol exposure in utero. Lastly, sarcoma botryoides is a malignant rhabdomyosarcoma that presents as a "bunch of grapes" protruding from the vagina. These cells are spindle-shaped and desmin positive on histology.



PLAY PICMONIC

### Squamous Cell Carcinoma

#### Squamous Cell Carcinoma

[Square-mouse Car-gnome](#)

Squamous cell carcinoma is the most common subtype of vaginal carcinoma. As primary SCC is rare, vaginal SCC usually occurs secondary to cervical SCC.

#### Most Common Subtype

[#1 Foam-finger](#)

Squamous cell carcinoma is the most common subtype of vaginal carcinoma.

#### Associated with Cervical Squamous Cell Carcinoma

[Cervix-certificate Square-mouse Car-gnome](#)

Squamous cell carcinoma of the vagina usually arises from cervical squamous cell carcinoma. Cervical cancer is a common gynecologic malignancy that has fortunately become much less fatal since screening methods (e.g., Pap smear).

### Clear Cell Adenocarcinoma

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[Clear Cell Add \(+\) Car-gnome](#)

Clear cell adenocarcinoma primarily impacts females of mothers exposed to DES (diethylstilbestrol) in utero.

#### Diethylstilbestrol (DES) Exposure

[Pregnancy with DES](#)

Clear cell adenocarcinoma primarily impacts females of mothers exposed to DES (diethylstilbestrol) in utero. DES was thought to prevent complications of pregnancy by boosting estrogenic activity during the mid-1900s until there was substantial evidence for the link between clear cell adenocarcinoma of the vagina and subsequent infertility.

### Sarcoma Botryoides

## **Sarcoma Botryoides**

[Shark-comb Bot-droid](#)

Sarcoma botryoides is a rare vaginal carcinoma subtype but is highly malignant with a peak incidence in childhood (< 4 years old).

## **Malignant Rhabdomyosarcoma**

[Malignant-man Raptor-mayo-shark-comb](#)

Sarcoma botryoides is a highly malignant embryonal rhabdomyosarcoma. Rhabdomyoblasts can be found anywhere in the body where smooth muscle tissue surrounds an epithelial lumen. They are present in the vaginal epithelium. There is a peak incidence of this vaginal cancer in childhood, commonly in those less than 4 years old.

## **"Bunch of Grapes" in Vagina**

[Vagina-violet with Grapes](#)

Sarcoma botryoides is associated with clear, gross polypoid masses that resemble a bundle of grapes, which protrude from the vagina.

## **Spindle-Shaped Cells**

[Spindle Cell](#)

Tumor cells of sarcoma botryoides are characterized by a spindle-shaped pleomorphic appearance on microscopy.

## **Desmin Positive**

[Demon Positive](#)

Sarcoma botryoides is desmin positive on immunohistochemical staining. Desmin is a muscle-specific protein that comprises intermediate filaments. Desmin IHC is used to identify neoplastic cells arising from muscle.