

HPV Genotyping from Genetic Assays

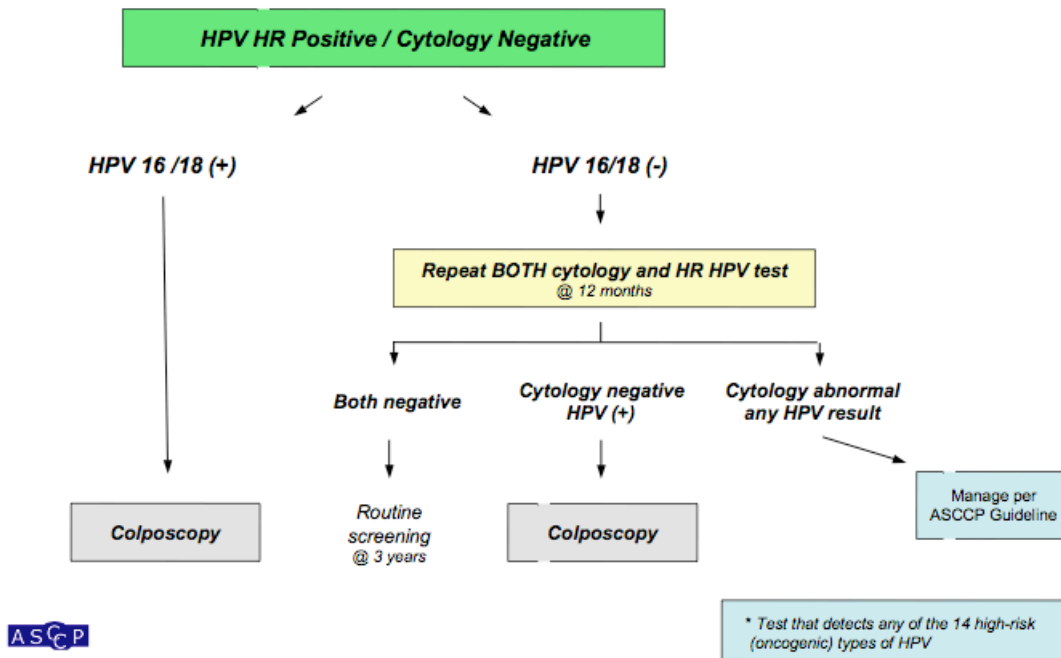
High-risk HPV types 16 and 18 have been reported to cause 70% of cervical cancers caused by HPV, and they are more highly prevalent than other high-risk types (in Genetic Assays' testing since 2005, high-risk types 16 and 18 have accounted for 4 of every 10 HPV HR positive samples).

Only persistent infection with a high-risk type of HPV can cause cell changes leading to cervical cancer. To determine whether an HPV infection is new or persistent, Genetic Assays recommends reflexing positive HPV DNA tests for HPV Genotyping, and repeating HPV testing in 12 months.

ASCCP Consensus Conference Recommendations for HPV 16/18 Detection

In **cytology negative women 30 years and older who are HPV DNA positive**, molecular genotyping assays that identify HPV 16 and 18 are clinically useful for differentiating which women should be referred for immediate colposcopy, and which should be followed-up with repeat cytology and high-risk HPV testing in 12 months (see figure below).

Use of HPV Genotyping to Manage HPV HR* Positive / Cytology Negative Women 30 Years and Older



American Society for Colposcopy and Cervical Pathology, 2009. Algorithm for using HPV genotyping for HPV 16 and 18 to triage high-risk HPV positive / cytology negative women

Genetic Assays' Test #7575 **HPV Genotyping** is performed by PCR with DNA sequencing. Not limited to only types 16 or 18, it reports the **specific HPV type** present in the patient sample. For initial detection, Test #395 or #395H HPV DNA by Hybrid Capture II (HCII)® can be performed, with reflex to genotyping available for "detected" HPV DNA results. Samples that have previously tested positive (by HCII® or PCR) can also be genotyped to determine the specific HPV type in the patient sample.

GA's HPV Genotyping Options

- #395 / 7575 HPV DNA by HCII® / reflex to HPV Genotyping
- #395H / 7575 HPV DNA by HCII® (High-risk only) / reflex to HPV Genotyping
- #7575 HPV Genotyping



For more information, contact Genetic Assays, Inc. at (615) 781-0709 or email: info@geneticassays.com