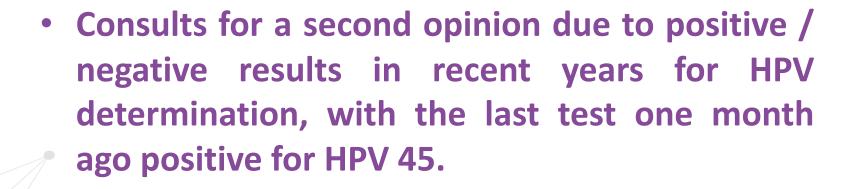
Case 2

Woman with alternating HPV positivity

Dr. Javier Cortés



Medical History



- Drinks alcohol.
- Open heterosexual relations. Sporadic use of condom.
- No relevant general pathological history.
- Not vaccinated against HPV.

Action

• A gynecologic examination is performed and a sample is obtained for HPV determination.



- HPV Determination: Negative for HR types.
- Platform used: Cobas®4800 HPV Test.



- Preventive check-ups for cervical cancer in 5 years.
- Health check-up in one year or as needed depending on circumstances.

HPV vaccination in adult woman

 Coverage in Spain in adult women: Below 1%¹

- Gardasil 9[®] efficacy²
- 95% CI



Gardasil 9®

- CIN 2/3, AIS, Cervical Cancer, VIN 2/3, VaIN 2/3, Vulvar Cancer and Vaginal Cancer related to HPV 31, 33, 45, 52, 58:
 - **97.4** (85.0; 99.9)
- CIN 2/3, AIS related to HPV 16, 18:
 - **98.2** (93.5; 99.8)
- VIN 2/3 related to HPV 6, 11, 16, 18:
 - **100.0** (67.2; 100.0)
- VaIN 2/3 related to HPV 6, 11, 16, 18:
 - **100.0** (55.4; 100.0)
- Genital Warts related to HPV 6, 11, 16, 18:
 - **99.0** (96.2; 99.9)

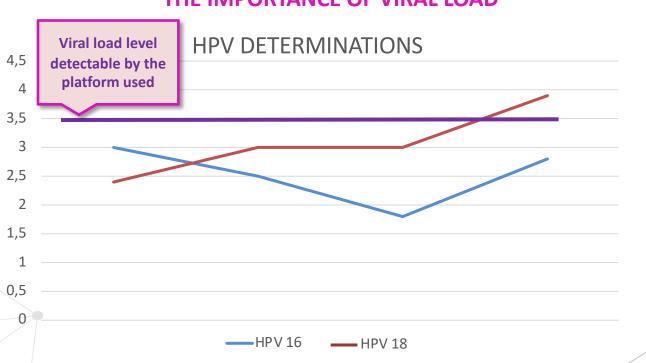
^{1.} Medical Departments of GSK and Merck. Personal communication.

^{2.} https://cima.aemps.es/cima/dochtml/ft/1151007002/FT 1151007002.html

Discussion

Not detecting HPV does not mean it is not there.

THE IMPORTANCE OF VIRAL LOAD



The importance of viral load

- The viral load of HPV has a lower diagnostic precision than that reported for other screening tests for detecting HPV³.
- However, it can be useful to understand fluctuation in detection and to measure the capacity of HPV integration⁴.

- 3. Malagón T.: Viral load of human papillomavirus types 16/18/31/33/45 as a predictor of cervical intraepithelial neoplasia and cancer by age. Gynecol Oncol. 2019; 155: 245–253.
- 4. Cao M.: Increased High-Risk Human Papillomavirus Viral Load Is Associated With Immunosuppressed Microenvironment and Predicts a Worse Long-Term Survival in Cervical Cancer Patients. Am J Clin Pathol.2019. pii: aqz186. doi: 10.1093/ajcp/aqz186. [Epub ahead of print]



Not detecting HPV does not mean it is not there.

HUMAN PAPILLOMAVIRUS DETERMINATION – RESULT REPORT

Name:

Indication: Dr. Record No.:

TECHNIQUE

Cobas 4800° for detection of DNA from high-risk HPV types 16 - 18 - 31 - 33 - 35 - 39 - 45 - 51 - 52 - 56 - 58 - 59 - 66 - 68 at relevant levels of clinical infection

RESULT



Palma, 2 April 2019

Dr. Cortés Laboratory
Alfonso el Magnánimo 29, 07004 Palma
Telephone +34 971498781 – e-mail cortes@ocea.es



We will make clinical decision based on the result: it must be obtained through a reliable technique.

HPV

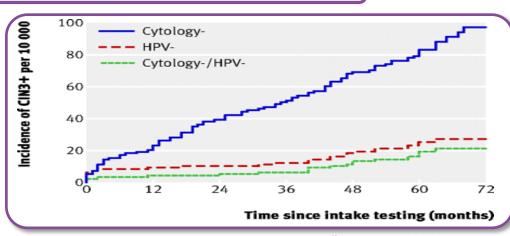
Ejegod DM, Lagheden C, Bhatia R, Pedersen H, Boada EA, Sundström K, Cortés J, Josë FXB, Cuschieri K, Dillner J, Bonde J.

- 1. Hy
- Clinical validation of full genotyping CLART® HPV4S assay on SurePath and ThinPrep collected screening samples according to the international guidelines for human
- **2**. C€
- papillomavirus test requirements for cervical screening. BMC Cancer. 2020 May 6;20(1):396.
- 4. A
- 5. BD Onclarity HPV Assay®. Benton, Dickinson & Company



Preventive check-ups for cervical cancer in 5 years?

Negative predictive value of the HPV test



Dillner J.: BMJ 2008;337:a1754

330,790 women \geq 30 years of age. Risk of CIN3+ at 5 years:

HPV - 0.17%

HPV - / Cyto - 0.16%

The double test does not improve the results

Preventive check-ups for cervical cancer with HPV - every five years Annual health check-up

- Over the last fifty years gynecologists have successfully instilled in women the culture of the "Annual Health Check" (Well-Woman Visit).
- Routinely associated with certain procedures, the annual health check should be adapted in its content to new evidence personalized to suit the woman.
- The excellent habit of the annual health check should not only be preserved but strengthened, guiding women to a gynecological health exam⁶.

Prog Obstet Ginecol 2017; 60: 160 – 175.

^{6.} Cortés J.: La Prevención del Cáncer Ginecológico en la Asistencia Privada [The Prevention of Gynecological Cancer in Private Health Care].



- 1. Acceptable cost.
- 2. Be validated.
- 3. Speed of report issuance.



- 1. There is no HPV.
- 2. HPV is not detected.
- 3. HPV is not detected at a clinically relevant level.

The negative predictive value for HSIL in a negative HPV test is:

- 1. 88%.
- **2.** 68%.
- 3. 48%.