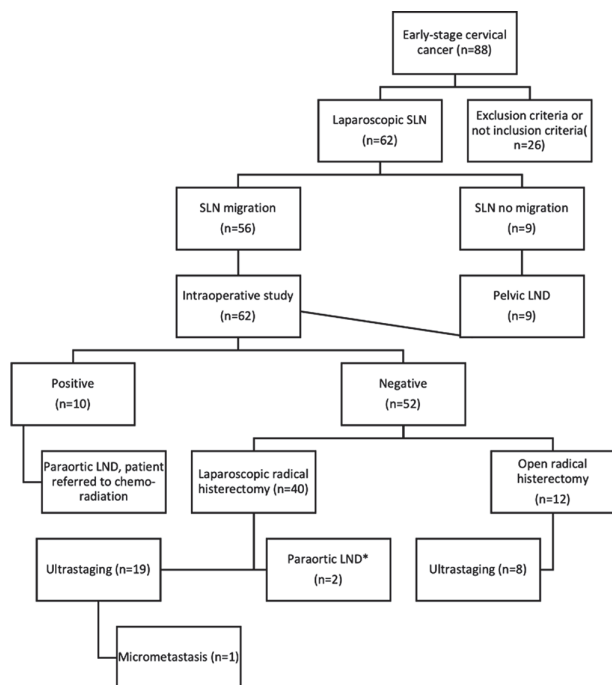


were categorized a priori into two groups based on the surgical approach of the radical hysterectomy (laparoscopy vs laparotomy).

**Results** A total of 88 patients with early-stage cervical cancer between January 2010 and July 2021 were evaluated. Sixty-two patients met the inclusion criteria. Fifty-two patients (84%) had a negative intraoperative SLN performed by laparoscopy: 40 patients who underwent laparoscopic radical hysterectomy vs. 12 with open radical hysterectomy. Ten patients (16%) had a positive intraoperative SLN and the radical hysterectomy was discarded, paraortic lymphadenectomy was performed and the patients were referred to definitive treatment with chemoradiation.



Abstract 2022-RA-971-ESGO Figure 1

**Conclusion** Laparoscopic SLN biopsy with an intraoperative analysis before open radical hysterectomy spare a 16% of futile laparotomies.

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#### HIGH-RISK HUMAN PAPILLOMAVIRUS (HR-HPV) VIRAL LOAD: A NEW APPROACH FOR HIGH-GRADE CERVICAL INTRAEPITHELIAL NEOPLASIA (CIN) TREATMENT?

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**Introduction/Background** Standard treatment of high-grade cervical intraepithelial neoplasia (CIN) is conization. Merely one conization out of four is an overtreatment due to regression of lesion from biopsy to cone. Beside increasing unnecessarily the costs, CIN overtreatment might hamper the feasibility of follow-up and negatively affect reproductive outcomes. The

aim of this study is to develop a new approach for high-grade CIN treatment.

**Methodology** Consecutive women with a diagnosis of high-grade CIN undergoing laser CO<sub>2</sub> conization were recruited at the Outpatient Service of Central Tuscany (Florence, Italy) from September 2015 to October 2018. Before conization, cervical samples were collected for each patient and viral load of HR-HPV was assessed with Hybrid Capture 2 (HC2), which considered as positive only samples with viral load above a defined threshold. Histology reports of both biopsy and cone, as well as clinical data, were collected for each patient. Statistical analysis was performed with IBM SPSS statistics 23.0 software, using contingency tables, Pearson's chi-square test and nonparametric tests.

**Results** 295 patients were enrolled. Cone histology showed a lesion regression (negative for high-grade CIN) in 40,5% of CIN II at biopsy (62/153) and in 26,9% of CIN III (25/93). Viral load in cervical samples at conization was statistically associated with CIN grade at cone histology ( $p < 0,001$ ): 75,7% of negative samples resulted in CIN I at cone histology, whereas 72,8% of positive ones resulted in high-grade CIN or worse at cone histology. Furthermore, all the lesions that progressed from biopsy to cone were positive at HC2 and presented higher viral load compared to those that regressed ( $p < 0.001$ ).

**Conclusion** HR-HPV testing with viral load assessment at the time of scheduled conization might be used to stratify patients referred to the procedure, identifying those who are eligible to repeat biopsy versus those who have indication to proceed with conization.

2022-RA-991-ESGO

#### ASSESSMENT OF HIGH-RISK HUMAN PAPILLOMAVIRUS INFECTIONS AND CERVICAL DYSPLASIA IN HUMAN IMMUNODEFICIENCY VIRUS-POSITIVE PREGNANT WOMEN IN GERMANY: A PROSPECTIVE CROSS-SECTIONAL TWO-CENTER STUDY

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**Introduction/Background** Cervical dysplasia up to cervical carcinoma are in almost 100% associated with a high-risk HPV (HR-HPV) infection. The immunosuppressive influence of Human Immunodeficiency Virus (HIV) and the immunocompromised period of pregnancy are risk factors for acquisition and persistence of HR-HPV infections and their progression to precancerous lesions and HPV-associated carcinoma. There is still a lack of guideline-defined approaches, due to the lack of sufficient research, especially in Europe, for the screening and follow up of pregnant women living with HIV (WLWH) to prevent HPV-related cervical dysplasia.

**Methodology** HIV-positive pregnant women were included (n=81). HPV test and genotyping HPV test (multiplexed genotyping with BSGP5+/6+ PCR and Luminex read-out),