

EUROGIN

FEB. 8-11 2023

INTERNATIONAL MULTIDISCIPLINARY HPV CONGRESS

18%

70%

2021 AOUC

OBSTETRIC

POPULATION

COLPOSCOPIC MAGNIFIED SCANNING LASER VAPORIZATION (CMSLV) FOR GENITAL WARTS DURING PREGNANCY: A PROPSECTIVE DESCRIPTIVE EVALUATION OF SAFETY IN A MATERNAL CARE HOSPITAL.

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INTRODUCTION

Condyloma acuminata or **genital warts** is a benign neoplasm that develops in the genital tract. It is caused by infection with human papillomavirus (HPV) types 6 and 11 and **tend to grow rapidly in pregnant women.** This infection pass through infected birth canal to newborns resulting in a higher risk of Juvenile onset recurrent respiratory papillomatosis (JORRP) which is a bening rare affection but causes recurrent obstruction of airways requiring multiple surgery and determining definitive vocal dysfunction.

No clear guidelines are available to manage pregnant women with genital warts leading physicians to chose the best option of treatment and avoid to perform cesarean section to minimize the risk of JORRP, thus in litterature 20% of warty pregnant patients still undergo cesarean section.

AIM

Authors describe a minimally invasive technique as safe and reliabe to manage genital warts during pregnancy reducing risk of cesarean section and preserving obstetrical outcomes: the colposcopic magnified scanning laser vaporization (CMSLV).

METHOD

<u>DESIGN</u>: prospective taking care observational study with colposcopy every three weeks during pregnancy until term.

<u>POPULATION:</u> all patients diagnosed from 2014 to 2019 with genital warts during pregnancy, followed by Authors' prenatal care unit and delivered at Authors' ostetrical inward.

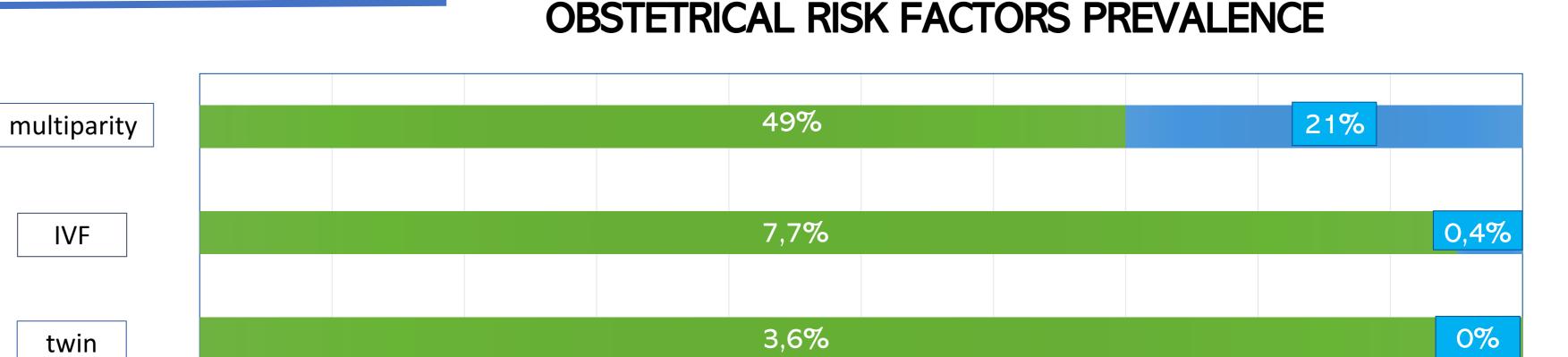
TECHNIQUE: vaporization performed with a SmartXide CO2 laser (DEKA M.E.L.A. Srl) at 15 watt of power using an exagonal shape microscan connected to a colposcope and tailored on warts' localization and dimension. Procedures were performed after applying topical anesthetic agent (lidocaine/prilocaine 5%). Local injectable anesthetic (1:200000 optocain with adrenaline) was limited to not-responding pain and wide procedures.

AIM: no residual disease at vaginal delivery with obstetrical oucomes comparable to AOUC 2021 obstetrical population.

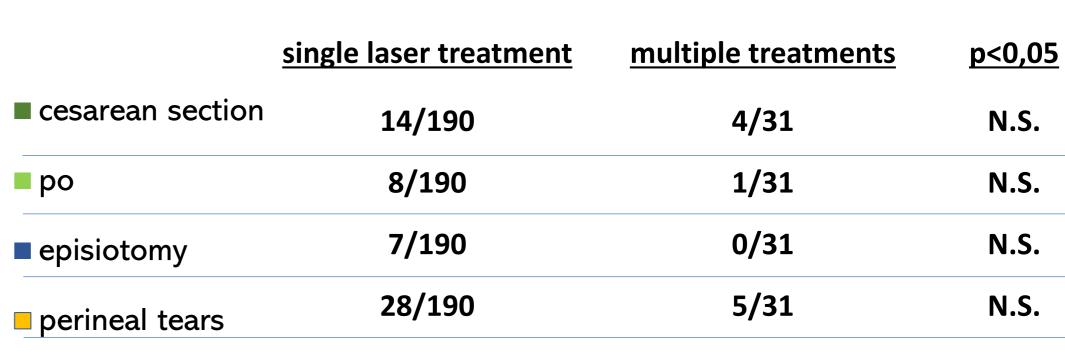
RESULTS

STUDY

POPULATION

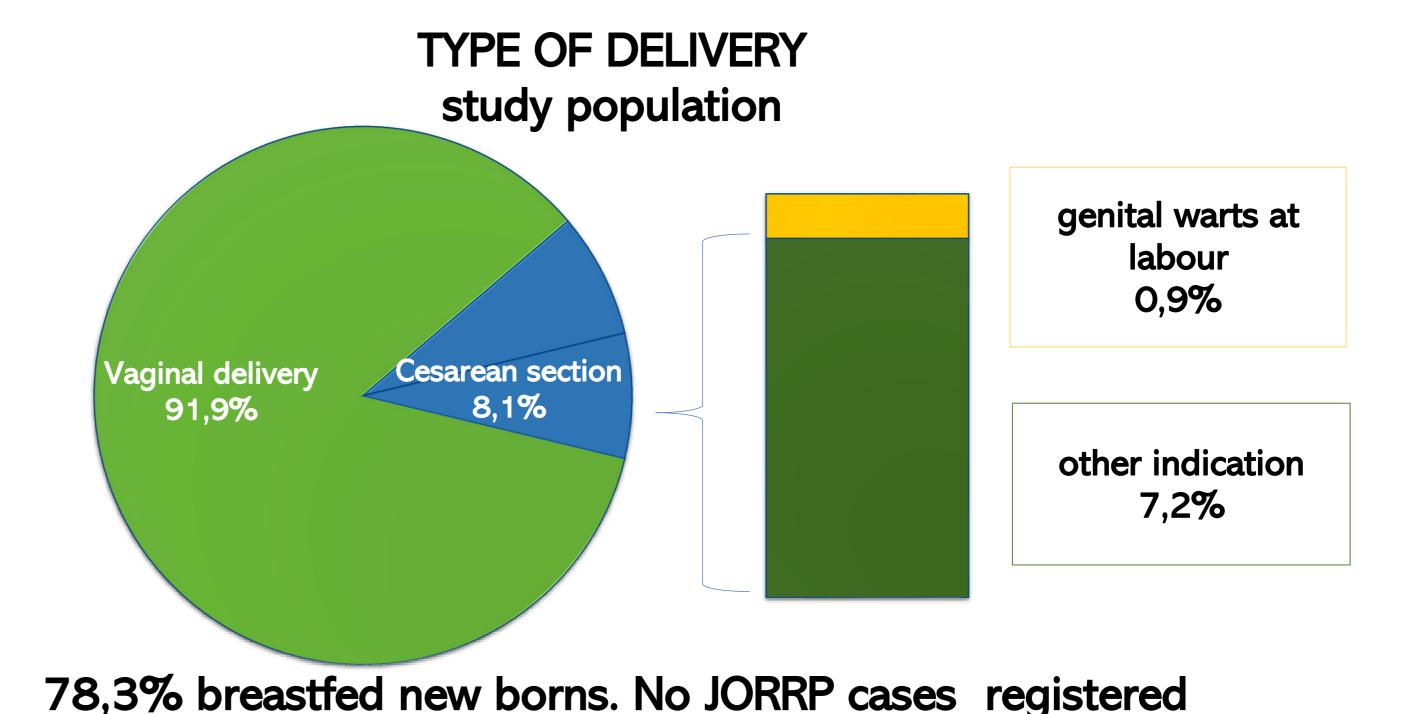






HPV PERSITENT POPULATION

not camplicated vaginal delivery



CONCLUSIONS

- CMSLV allows the outpatient simultaneous treatment of multiple sites reaching the lesions' clearance in only one session.
- CMSLV did not expose pregnant patients to a high risk of preterm labour and can be performed till term.
- CMSLV reduces the risk cesarean section as preventing JORRP option under 1%.
- CMSLV has no detrimental effects on mothers' physical and mental health.
- Gathering CMSLV, prenatal and delivery care in the same hospital protects patients from perineal tears.

ACKNOWLEDGEMENT

Technical assistance provided by **DEKA M.E.L.A. S.r.I.** was greatly appreciated.

We would like to offer our special thanks for scientifical support to Prof.Felice Petraglia and Dott. Giuseppe Cariti

presented at:

First and last, we're are particularly grateful for all patients' trust in our healthcare system.

REFERENCES

- S.Suzuki et al. Current Status of Condylomata Acuminata in Pregnant Japanese Women. Jpn j infect dis2016 Jul 22;69(4):347-9.
- Ferenczy A. Treating genital condyloma during pregnancy with the carbon dioxide laser. Am J Obstet Gynecol. 1984;148:9–12.
- Widschwendter A et al.. Recurrence of genitals warts in pre-HPV vaccine era after laser treatment. Arch Gynecol Obstet 2019; 300:661–668..

 Parin let al. Global, regional and national sauses of under 5 mortality in 2000, 19; an undated systematic analysis with implications for the Sus
- Perin Jet al. Global, regional,and national causes of under-5 mortality in 2000-19: an updated systematic analysis with implications for the Sustainable Development Goals. Lancet Child Adolesc Health.2022;6(2):106-15
- UNICEF global databases, 2021, based on MICS, DHS and other nationally representative sources.







Genital warts
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