A FIRST-IN-HUMAN PROOF-OF-CONCEPT TRIAL OF INTRAVAGINAL ARTESUNATE TO TREAT CERVICAL INTRAEPITHELIAL NEOPLASIA (CIN2/3)

C.L. Trimble, M.D.

SGO Annual Meeting on Women's Cancer Sunrise Seminar III: On the Horizon: A Glimpse of What's to Come for SGO 2025 March 30, 2020 Toronto, CA





Disclosures

Consultant: Inovio Pharmaceuticals, Merck, GlaxoSmithKline, Vedantra Pharmaceuticals, Janssen

Collaborations: Adaptive Biotechnologies,

Grants and Research support: Inovio Pharmaceuticals, Stand Up to Cancer, The Commonwealth Foundation, Hoffman-La Roche, The Dana Foundation, Frantz Viral Therapeutics

Honoraria from: Merck, Vedantra Pharmaceuticals, Janssen, GlaxoSmithKlein, Roche

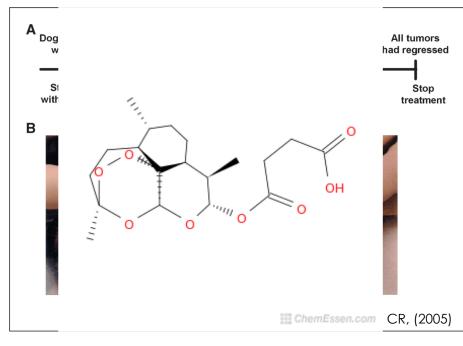




Artesunate

WHO-APPROVED FOR FRONT-LINE THERAPY FOR ACUTE MALARIA (PO, IM, IV, PR)

Artesunate is cytotoxic to many human solid tumor cell lines, but spares normal cells







TUYOU: "FOR HER DISCOVERIES

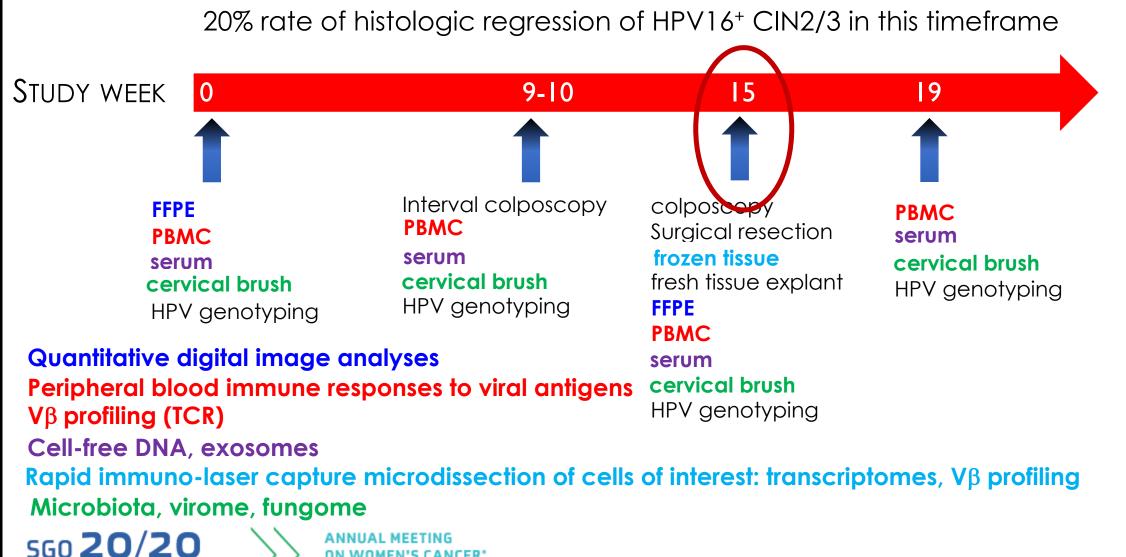






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Observational study: A prospective 15-week window of observation of HPV16⁺ CIN2/3, before planned standard therapeutic resection

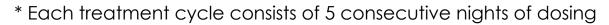


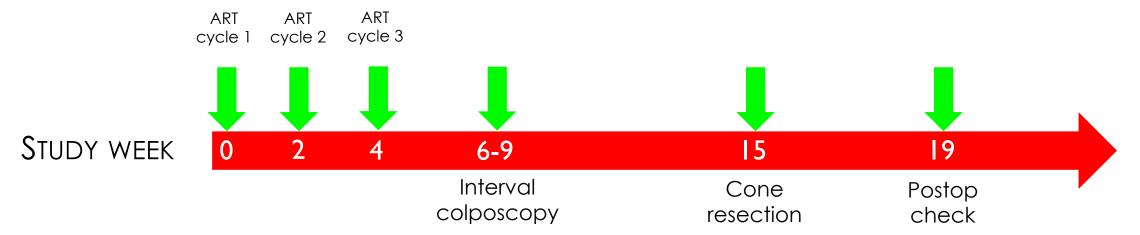
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First-in-(WO)man Clinical Trial testing Safety, tolerability, and efficacy of self-administered Artesunate vaginal suppositories to treat $CIN2/3^*$





Treatment group	dose	cycles
1	50 mg	1
2	200 mg	1
3	200 mg	2
4	200 mg	3

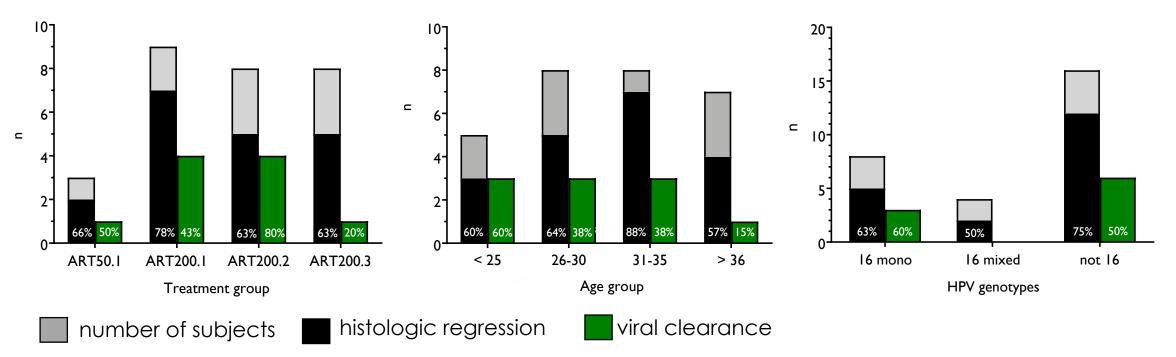






Histologic regression in 19/28 (67.9 %) of subjects

Viral clearance in 9/19(47.4%) of histologic regressors



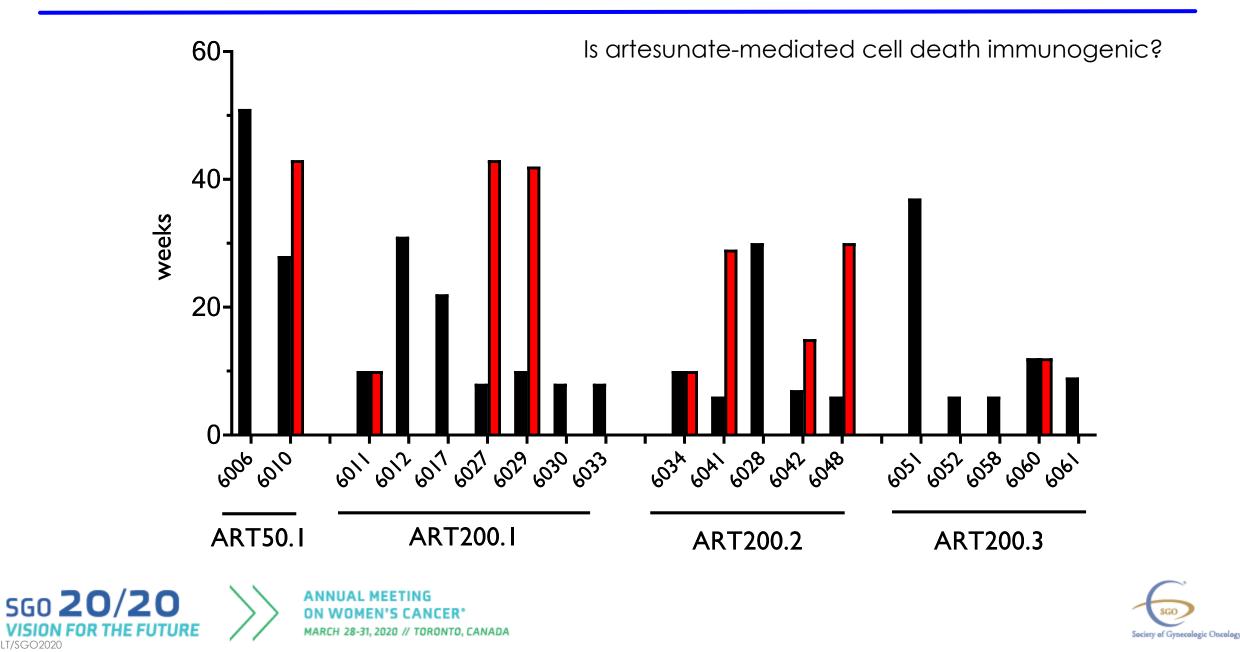


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HISTOLOGIC REGRESSION OFTEN PRECEDES LOSS OF DETECTABLE HPV

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PRE-INVASIVE, INTRAEPITHELIAL HPV LESIONS: AN OPPORTUNITY TO IDENTIFY STRATEGIES TO 'INTERCEPT' THE DEVELOPMENT OF CANCER.

WHAT'S NEXT?

Phase I: CIN (NCT_02354534) manuscript in press

Phase IIb: CIN (NCT_04098744)

Phase I: AIN (NCT_03100045)

Phase I: VIN (NCT_03792516)

Compassionate use: (NCT_02354534)

2020 // TORONTO, CANADA

GOING GLOBAL:

- SAFE
- SELF-ADMINISTERED
- MINIMAL COLD CHAIN REQUIREMENTS





<u>Pre-clinical development</u> Dick Schlegel lab Hang Yuan Xuefeng Liu

OUR PATIENTS AND THEIR FAMILIES

Drug formulation and oversight Mark Frantz, Frantz Viral Therapeutics, LLC Peter S. Frantz, Amarex Clinical Research, LLC <u>Clinical translation</u> Trimble group: Mihaela Plesa Kim Levinson Katharine Clark Betty Sauter Maria Shay Jie Fu Stephanie Sanders

<u>Study pathologists:</u> Leo Maldonado Michael Donovan







