



## EP\_079 Comparative analysis of the short-term effects of silicon dioxide (SiO<sub>2</sub>) + sodium selenite + citric acid (Deflagyn®) on cervical remission and re-epithelialization in HPV infections associated with cervical intraepithelial neoplasia grade 1 (CIN 1) and atypical squamous cells of undetermined significance (ASC-US)

Laura Hernandez, MD; Omar Camarillo, MD; Keli Sigala, MD;  
Cesar Sanchez, MD; Diego Flota, MD

Hospital de la Mujer Aguascalientes (Mexico)

Endofertyl (México)

Autonomous University of Aguascalientes (Mexico)

### OBJECTIVES & METHODOLOGY

#### Primary Objective:

Compare SiO<sub>2</sub> + Sodium Selenite + Citric Acid therapy for cervical re-epithelialization vs. standard cytological and colposcopic surveillance.



THERAPY



SURVEILLANCE

#### Patient Profile:

20 HPV-positive women, aged 25–35. Diagnosed with CIN I or ASC-US, no prior dysplasia treatment.



#### Clinical Evaluation Framework:

Quarterly evaluation using both cytology and Swede colposcopic scoring system to monitor lesion regression.



### RESULTS COMPARISON

Pharmacological Group (SiO<sub>2</sub>+) Outcomes

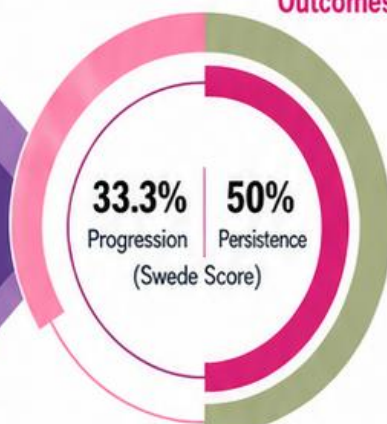


80% achieved negative cytology at 3 months, while 100% showed full remission based on the Swede Score.

#### Screening Method Discrepancy

Data reveals a significant gap between the sensitivity and specificity of cytology versus colposcopy in identifying lesion persistence.

Control Group (Surveillance) Outcomes



Despite 100% negative cytological results, the Swede Score revealed significant lesion progression and persistence.

#### 3–Month Follow-up Results Comparison

Metric	Pharmacological Group (SiO <sub>2</sub> +)	Control Group (Surveillance)
Negative Cytology	80.0%	100.0%
Remission (Swede Score)	100.0%	16.7%
Progression (Swede Score)	0.0%	33.3%
Persistence (Swede Score)	0.0%	50.0%

### DISCUSSION & CONCLUSIONS



Therapeutic Efficacy

The combination of sodium selenite, silicon dioxide, and citric acid effectively promotes the remission of intraepithelial lesions.



Prevention of Disease Progression

Unlike the surveillance group, the treatment group showed no cases of lesion progression over the study duration.



Clinical Recommendation for Monitoring

The study emphasizes the importance of using the Swede Score to navigate the discrepancy between screening methods in HPV-associated lesions.