

# HGCIN IN HPV VACCINATED WOMEN REFERRED WITH HIGH GRADE CYTOLOGY

Miss Gulnaz Majeed

Guys and St Thomas NHS Foundation Trust, London, United Kingdom



**Objective:** To evaluate CINII or worse in vaccinated women referred to colposcopy clinic at Guys and St Thomas NHS Foundation Trust London with moderate/severe dyskaryosis. On background presumption of HPV vaccinated women should not develop >CINII based on effectiveness of HPV vaccine clinical trials.

**Method:** All women referred to colposcopy unit with moderate/severe dyskaryosis identified by Cyres, colposcopy database viewpoint, Cervical Screening Management System CSMS for immunisation, screening data as well as EPIC database for histology results were reviewed. Retrospective-study over 24 months, timeframe

## Vaccination data

## Results

	vaccinated	Unvaccinated of eligible age	Other unvaccinated	Total
Severe	37	80	143	260
Moderate	88	105	161	354
Total	125 (20%)	185 (30%)	304 (50%)	614

## Type of vaccine

## Doses

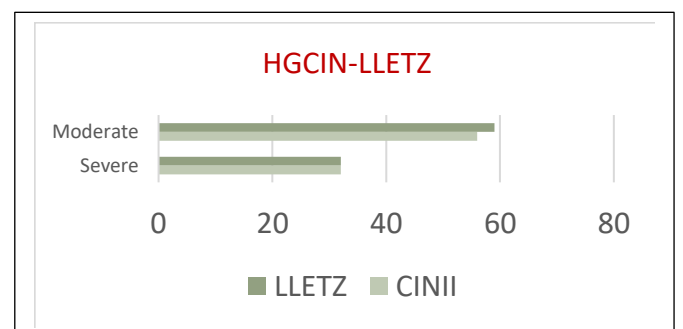
	Moderate	Severe	Total
Cervarix	80	30	110
Garadasil Quadrivalent	3	1	4

Doses	Moderate	Severe	Total
3	80	28	108
2	7	5	12
1	3	3	6
unsure	2	1	3

## Age of vaccination

## CINII or worse

Age	Moderate	Severe	Total
12	23	11	34
13	15	6	21
14	10	5	15
15	15	4	19
16	5	3	8
17	7		7
18	4	1	5
>18		22	22



## Conclusion:

n= 88 22% of vaccinated women had CINII or worse. Cervical screening programme in UK tests for 14 high-risk HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66 and 68.

It could be 1<sup>st</sup> generation vaccines prevented HPV 16/18 associated CINII so it was due to non-HPV 16/18 types or it could be HPV 16/18 associated lesions.

Multicentre audit underway. Consider genotyping to establish efficacy of vaccination.

## References:

Bruce McLucas, Eric Vail, Katherine Jane Chua, Gabriel Walt. Cervical intraepithelial neoplasia grade 3 in a patient following Gardasil vaccination. Case report BMJ. 2019

Mateja Sladić 1,2, Pepita Taneska 2, Branko Cvjetičanin 2, Mojca Velikonja 3, Vladimir Smrkolj 1 and Špela Smrkolj. Cervical Intraepithelial Neoplasia Grade 3 in a HPV-Vaccinated Patient: A Case Report. Medicina 2022, 58, 339.