



HPV & Cervical Disease

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Women's Health Study Day, February 2025

Chelsea and Westminster Hospital NHS Foundation Trust

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 Programme
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NHS Cervical Screening Programme

- National programme
- Reduce incidence and mortality from cervical cancer
- 24.5-64 year olds
 - 3 yearly <50s
 - 5 yearly 50+
 - Smear code!
- Primary HPV screening with triage by cytology



Direct referral – abnormal cytology





Direct referral – persistent hrHPV





Direct referral – persistent hrHPV



Direct referral indicated if two consecutive HPV unavailable or inadequate cytology

Abnormal cytology



2WW/suspected cancer pathway

- High grade dyskaryosis (severe)
- High grade dyskaryosis (moderate)
- High grade dyskaryosis ?invasive squamous cell carcinoma
- ?Glandular neoplasia of endocervical origin
- Borderline change in endocervical cells

Routine pathway

- Low grade dyskaryosis
- Borderline change in squamous cells
- hrHPV positive, cytology negative
- Inadequate/unreliable hrHPV

Colposcopy

• Assessment of the cervix





- Acetic acid
- lodine



- Smear
- Biopsies
- Treatment





Cervical Intraepithelial Neoplasia

CIN	1	2	3
Regress	70%	50-60%	32-47%
Stay the same	30%	32%	
Progress	10%	18%	32-40%







Cervical Intraepithelial Neoplasia

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Regres	S	70%		50-60%	32-47%
Stay the s	ame	30%		32%	
Progre	SS	10%		18%	32-40%
	Follow up in community				Treat

Cervical Glandular Intrapithelial Neoplasia





Cervical treatments



LLETZ



Cone shaped tissue removed

Cervical treatments



LLETZ

Non direct referrals



- Unable to obtain smear
- Ectropion
- Nabothian follicles
- Cervical polyps
- PCB
- HPV related cancer

Non direct referrals



- Unable to obtain smear I
- Ectropion
- Nabothian follicles
- Cervical polyps
- PCB
- HPV related cancer

- Bed with stirrups
- VE
- Appropriate sized speculum
- Instillagel
- Vagifem if atrophy



Ectropions / PCB









Ectropions / PCB





Nabothian follicles



Physiological, does not need colposcopy review



Cervical polyps





Do need to be remove, referral to Colposcopy or Gynaecology dependent on local agreement and history



Abnormal cervix







Abnormal cervix



Cervical cancer

Cervical fibroid

Abnormal cervix





- Colposcopy v 2WW clinic dependent on local agreement
- Needs urgent biopsy

HPV



- Common virus
- Asymptomatic
- Most will clear it within 2 years
- 200+ types
 - 14 deemed high risk
- Vaginal, vulval, anal cancer

- Skin-to-skin contact
- Can be dormant not identifiable
- Can be persistent
- No treatment*

Papilocare*



- "Treatment" for HPV and CIN
- Ingredients: Hyaluronic acid / β-glucan / biocolia / aloe vera / coriolus versicolor / neem / centella asiatica
- Re-epithelialisation of the TZ
- Re-balance the vaginal microbiome
- More trials are needed





HPV – reducing the risk/clearance

- Stop smoking & vaping
- HPV vaccination
 - Gardasil-9
- Condoms

HPV vaccination

- Vaccination programme
 - Girls and Boys, 11-13 years
 - Up to 25th birthday
 - GUM clinics
 - Self pay
- NOVEL study
- Partner vaccination





Cervical screening engagement





al events

111876 CB

of months

lonageneity: Not applicable

53

10204

(Staley et al., 2021)



(1) Invitations



www.beautifulcervix.com





Home Cervix Photo Galleries Buy a Cervical Self-Exam Kit! Learn 🗸 Participate Resources FAQ Contact 📜

The Beautiful Cervix Project

Other References



- Role of human papillomavirus (HPV) vaccination on HPV infection and recurrence of HPV related disease after local surgical treatment: systematic review and meta-analysis, *BMJ* 2022;378:e070135
- BSCCP (<u>www.bsccp.org.uk</u>)
- Cancer Research UK (<u>www.cancerresearchuk.org</u>)
- Cervical screening: programme and colposcopy management (<u>www.gov.uk</u>)
- Cervical Screening Programme Coverage Statistics (<u>https://digital.nhs.uk</u>)
- Interventions tarted at women to encourage the uptake of cervical screening, Cochrane Databse Syst Rev. 2021 Sept 6;9(9):CD002834
- IPVS (<u>https://ipvsoc.org</u>)
- Jo's Cervical Cancer Trust webpage (now closed, accessed prior to closure)
- Papilocare (https://procarehealth.com)