

HPV, vaccines and cervical cancer

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Cervical cancer

- Case histories
- HPV and cervical cancer
- HPV vaccination – why its safe!

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Ms AL

- Computer programmer
- Pv bleeding, pain
- Hypnosis, opiates
- Died aged 36 years old - 1852



Ms EP

- Politician
- Radical hysterectomy
- Chemotherapy
- Died aged 33 years old - 1952

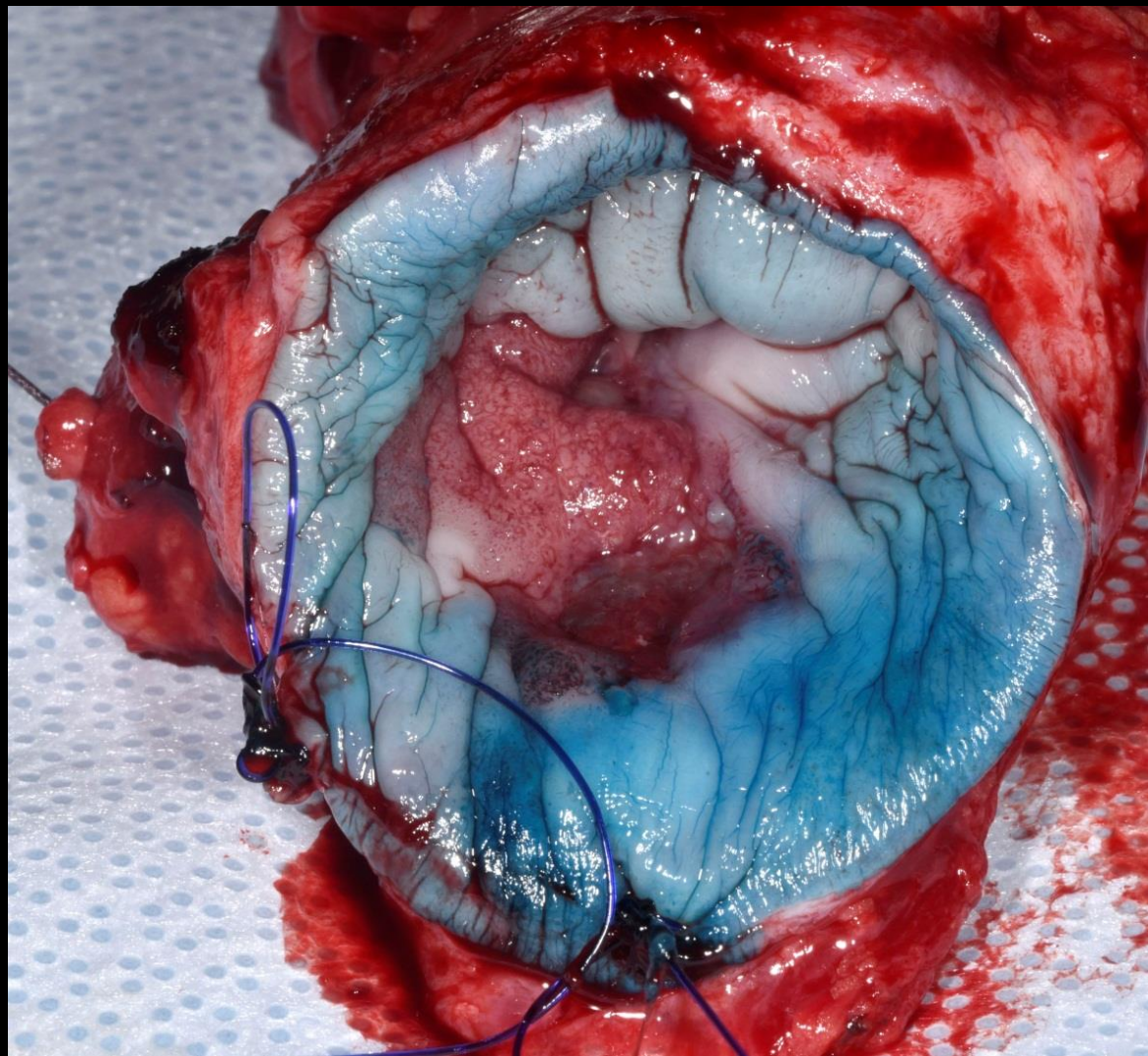




Ms ER

- 26 year old mother
- Abnormal smears in pregnancy
- Radical hysterectomy
- Radiotherapy
- 2016





Has there really been so little change over the centuries?

- Understanding?
- Prevention?

Cervical cancer

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Human Papillomaviruses

> 200 types of HPV

~ 20 anogenital types:

Low Risk

6,11

42, 43, 44, 54, 61

Anogenital warts

**90%
warts**

High risk

16,18

45, 31, 33, 52, 58, 35,

59, 56, 39, 51, 73, 68, 66

Cervical neoplasia

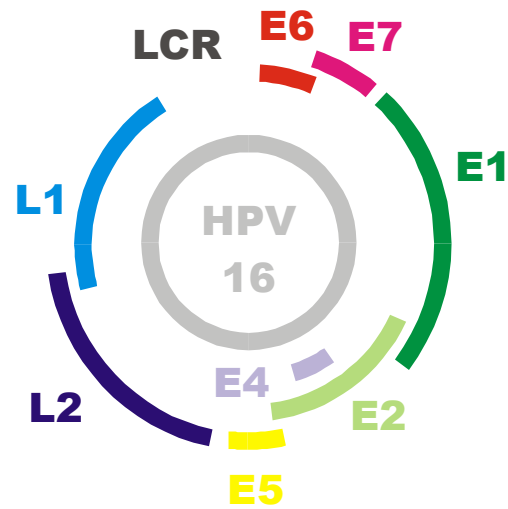
**70%
cervical
cancer**

HPV

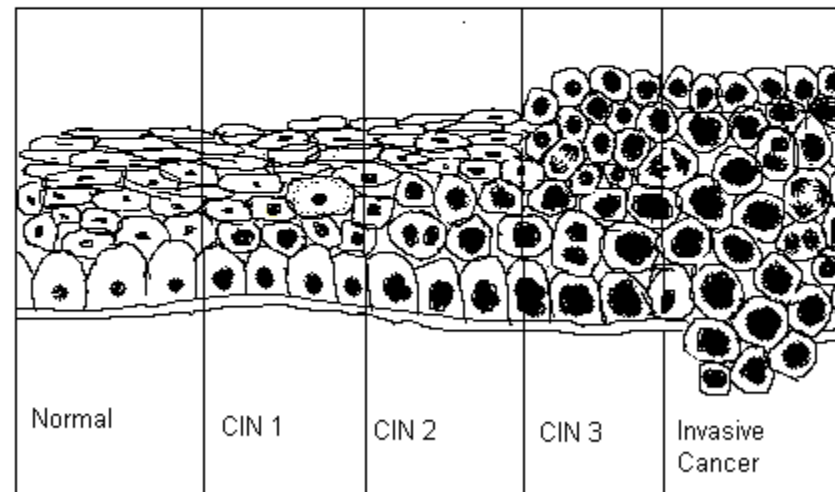
- Common – we all get it
- Mostly no consequences
- Can be present for years

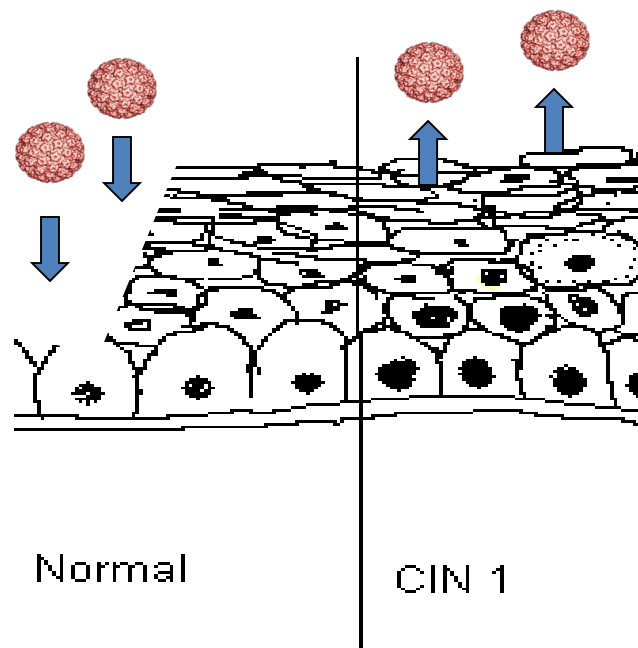
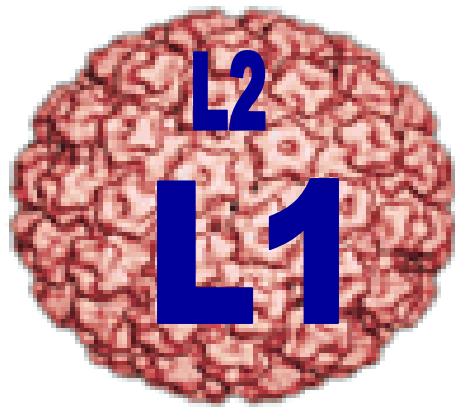
Oncogenic

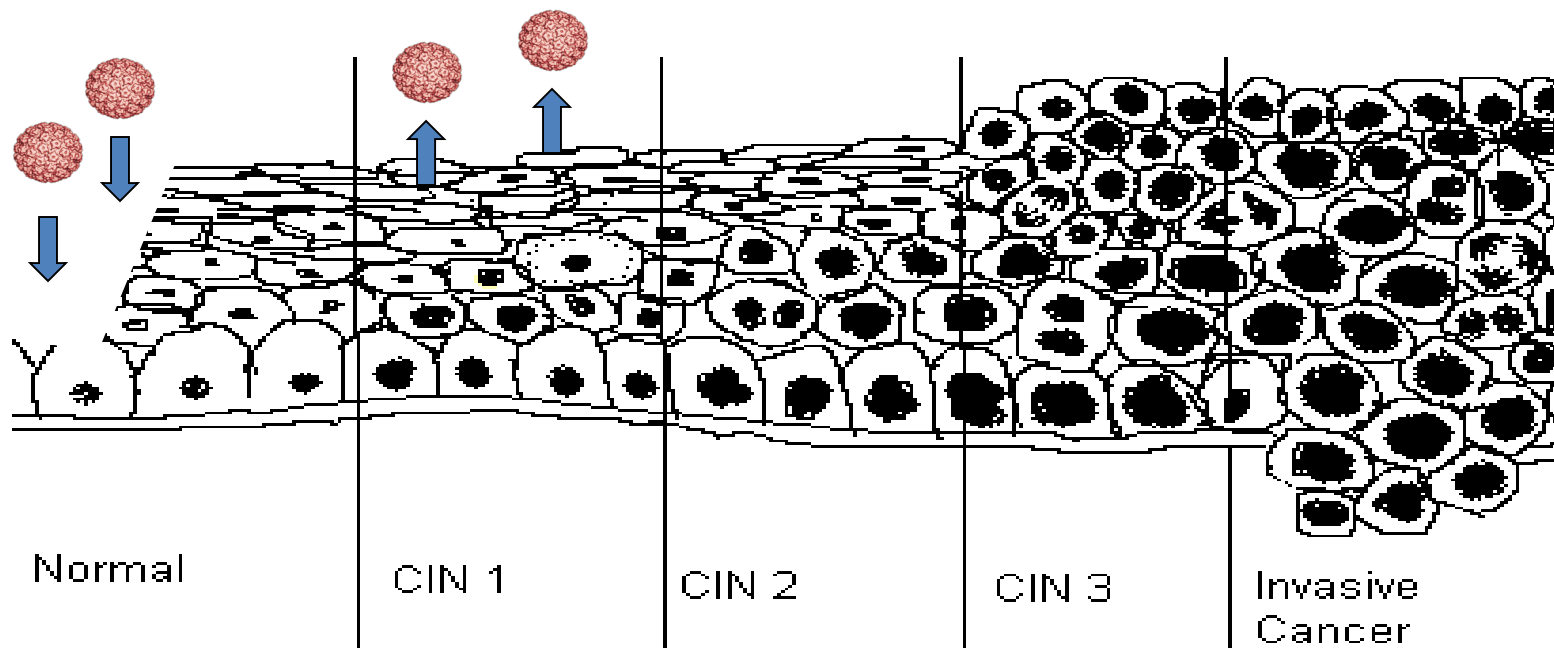
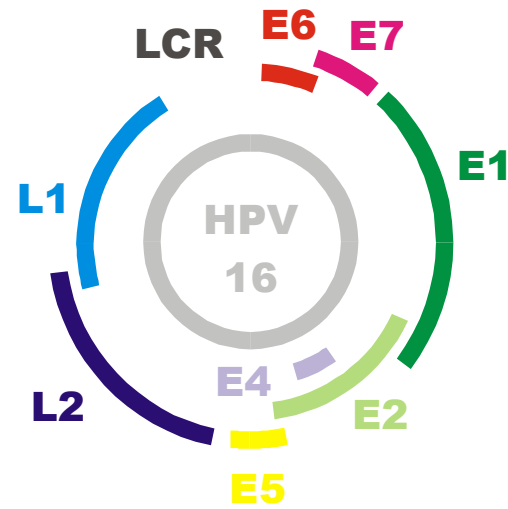
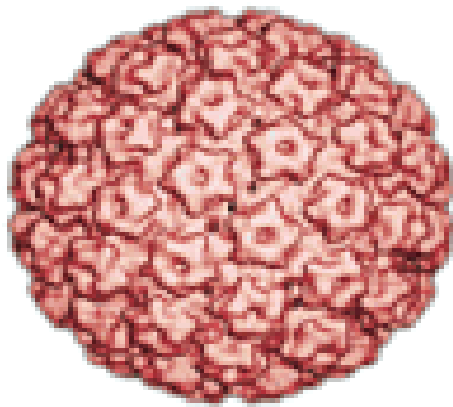
**Make
protein
shell**

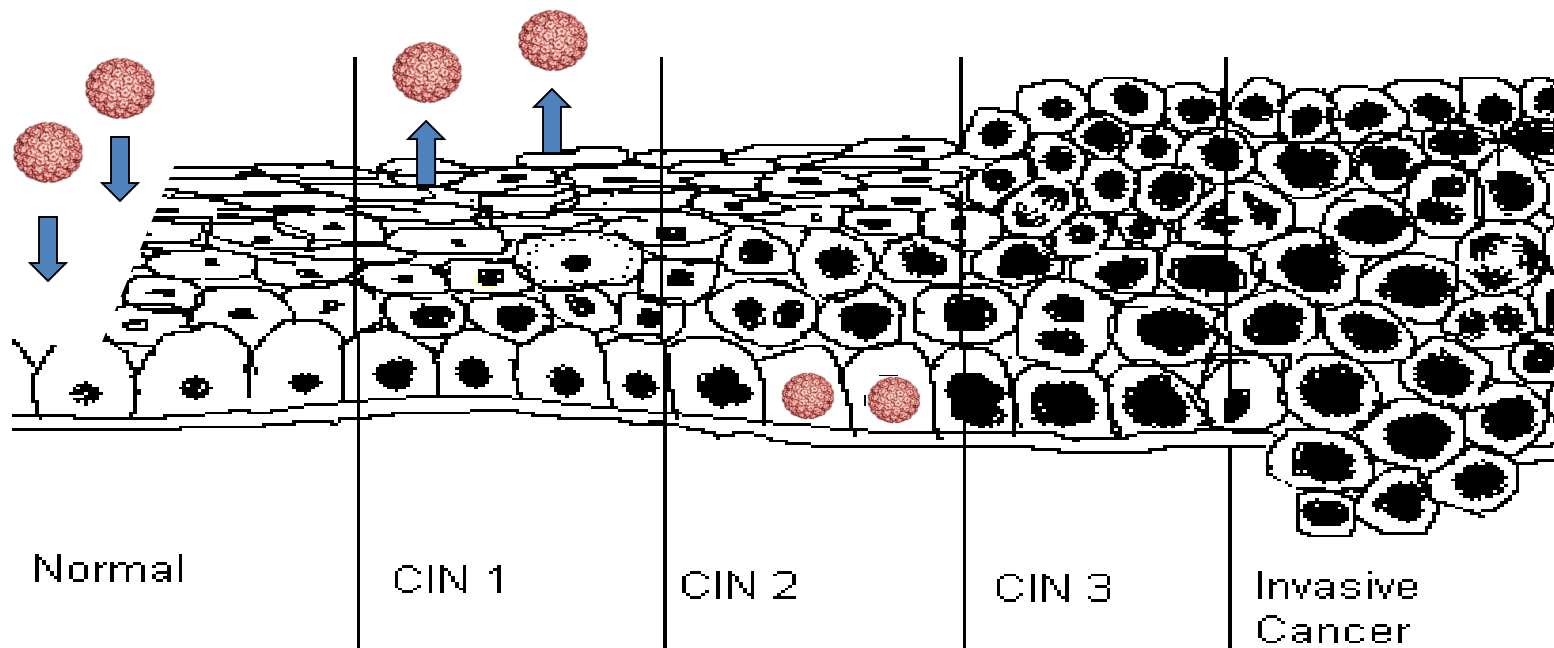
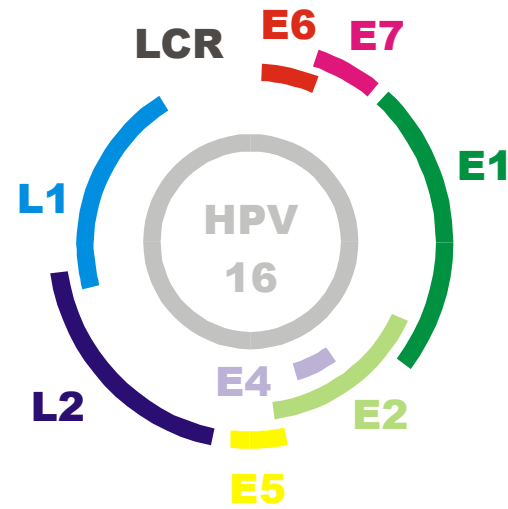
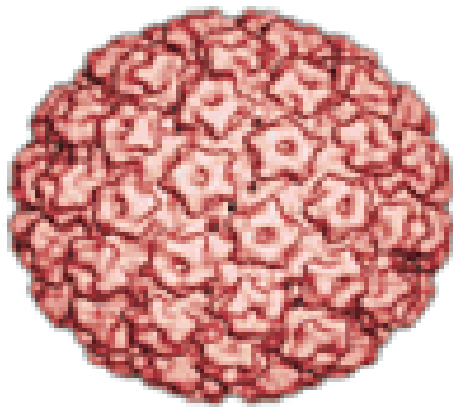


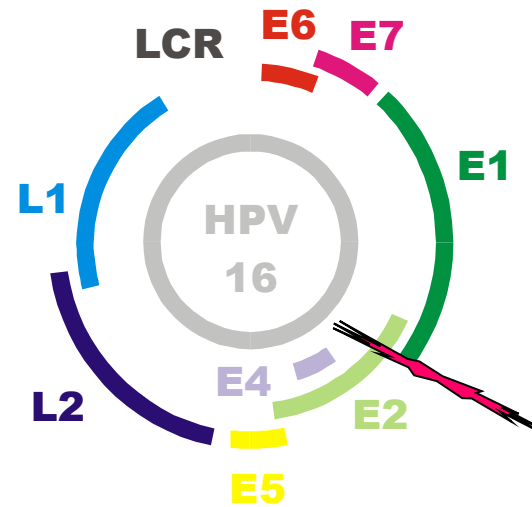
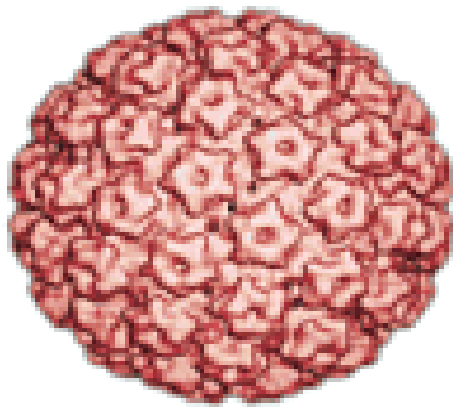
Natural history cervical cancer



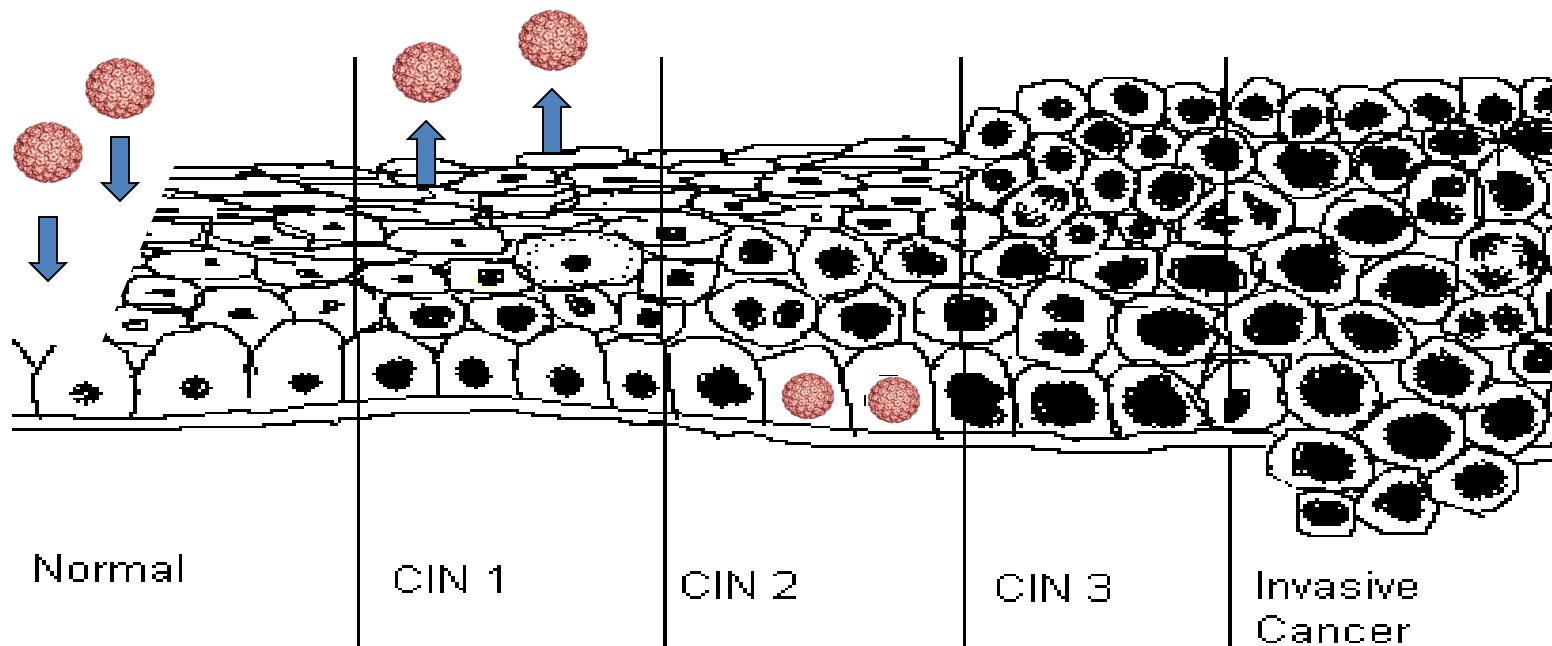


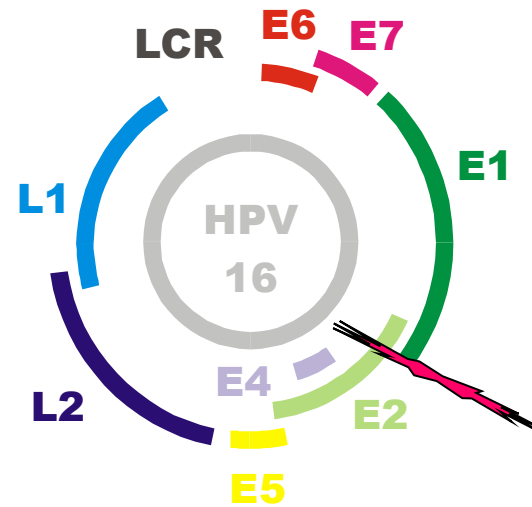
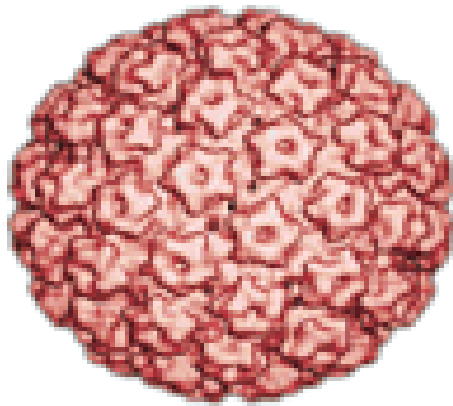




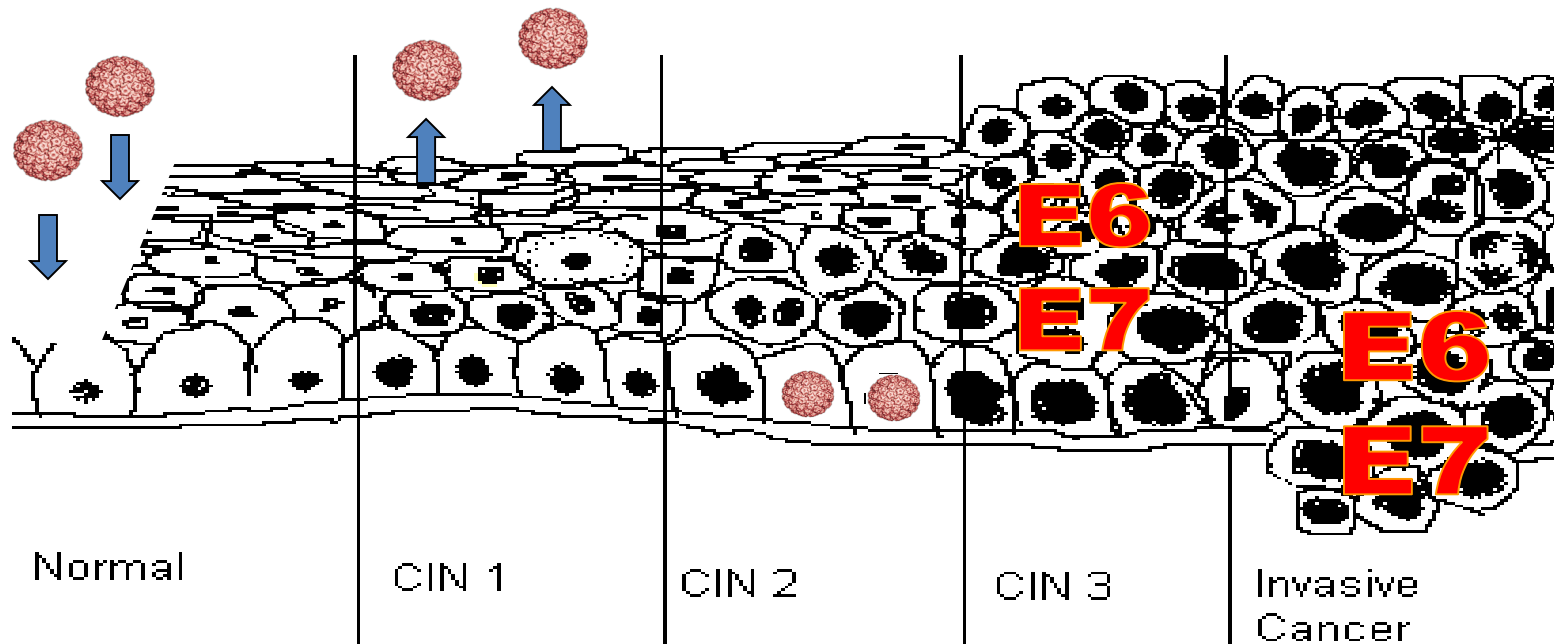


**Break for
Integration**

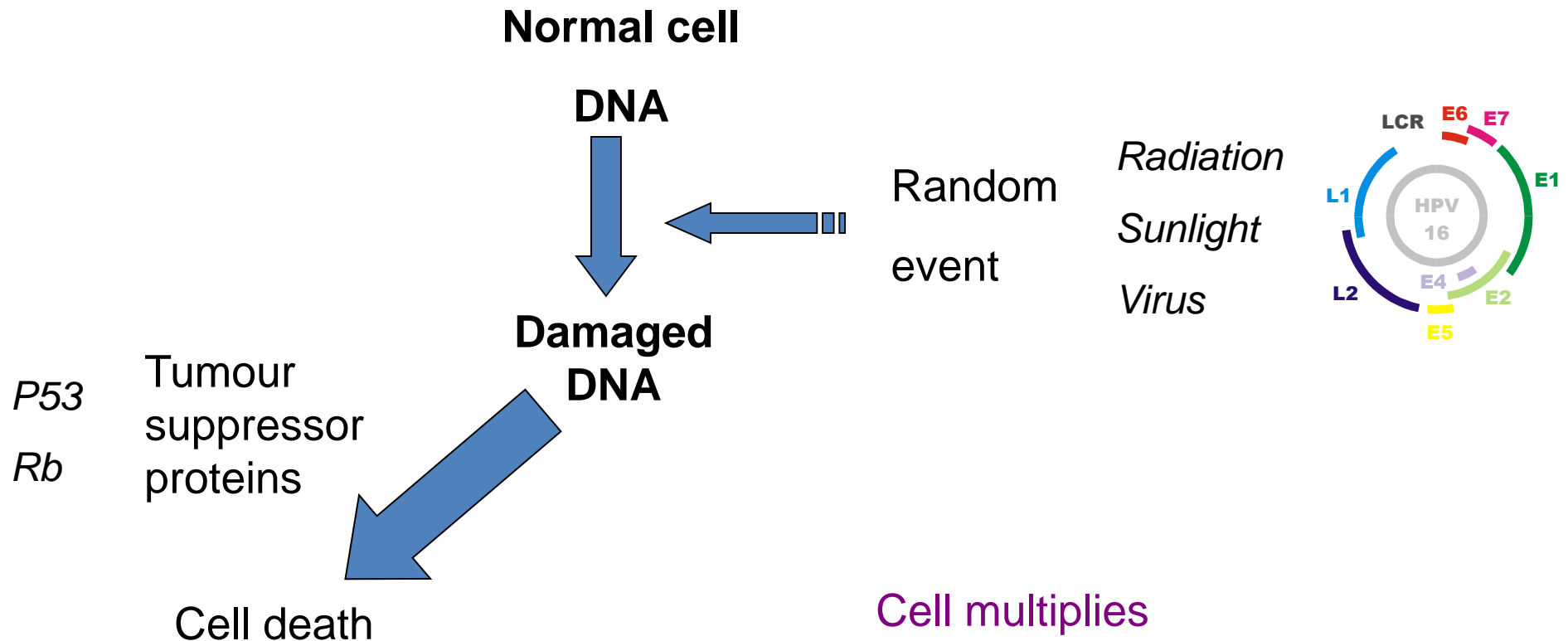


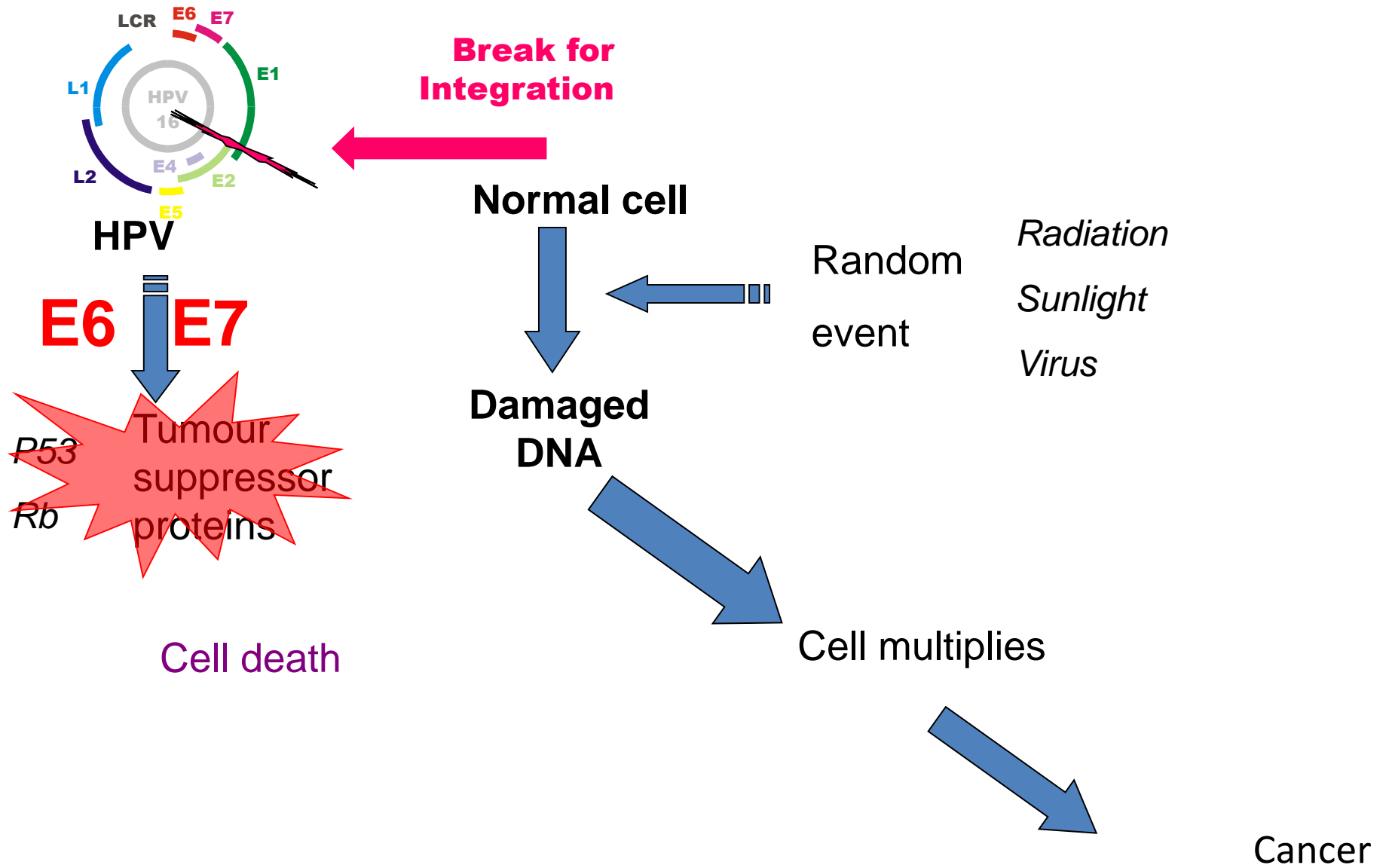


**Break for
Integration**

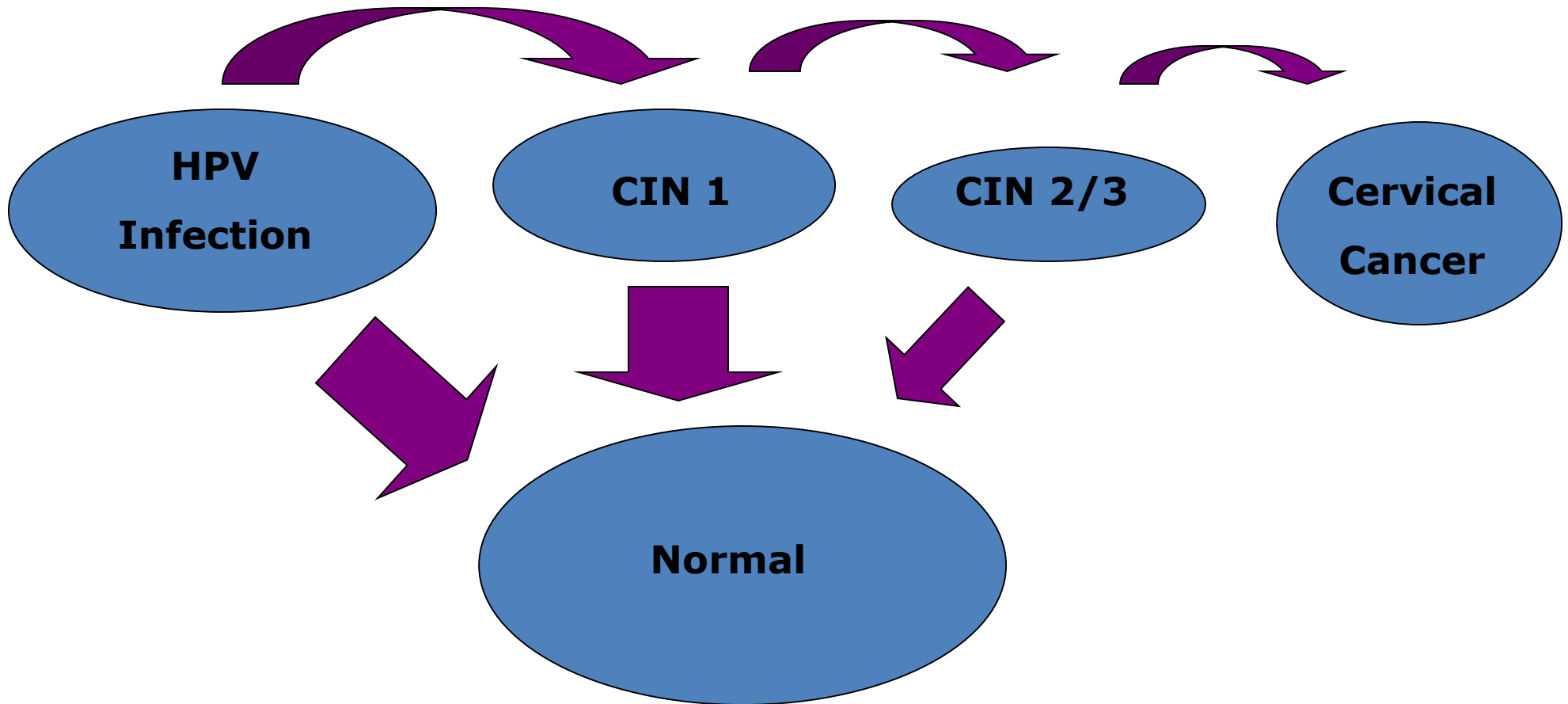


Development Cancer





Natural History

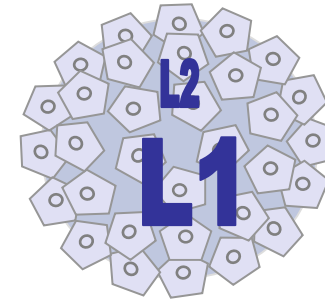




Cervical cancer

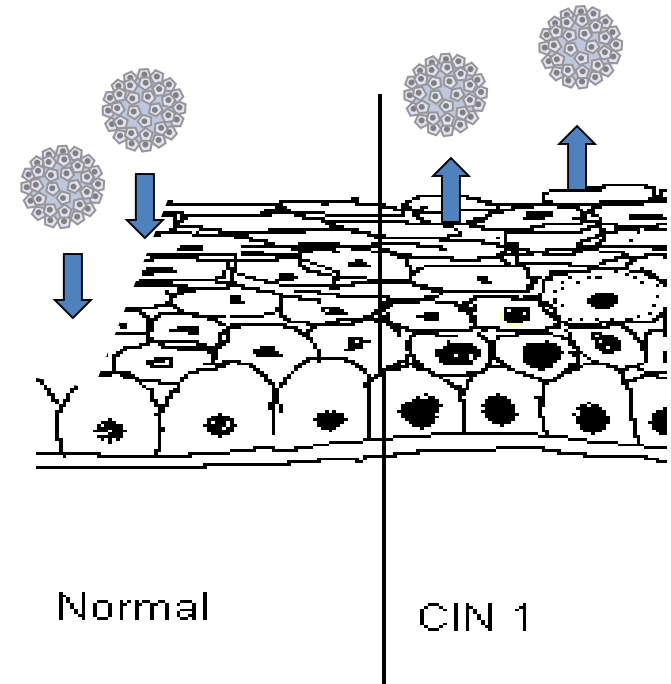
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- HPV vaccination – why its safe!

HPV Vaccines



Preventative

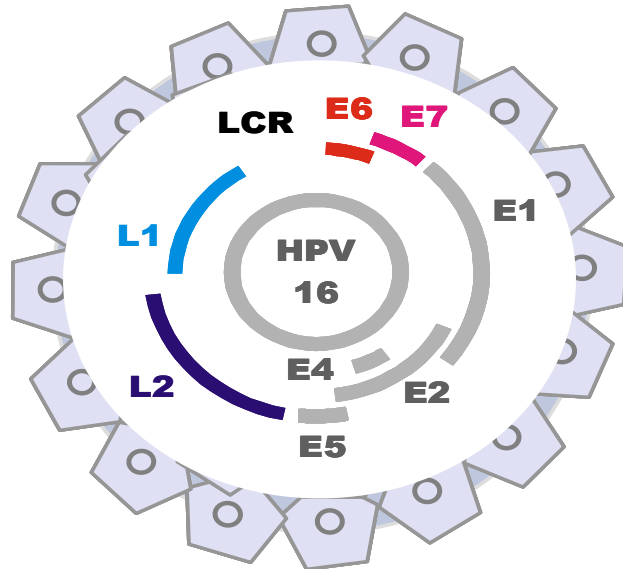
- Antibodies
- Viral Capsid proteins L1, L2



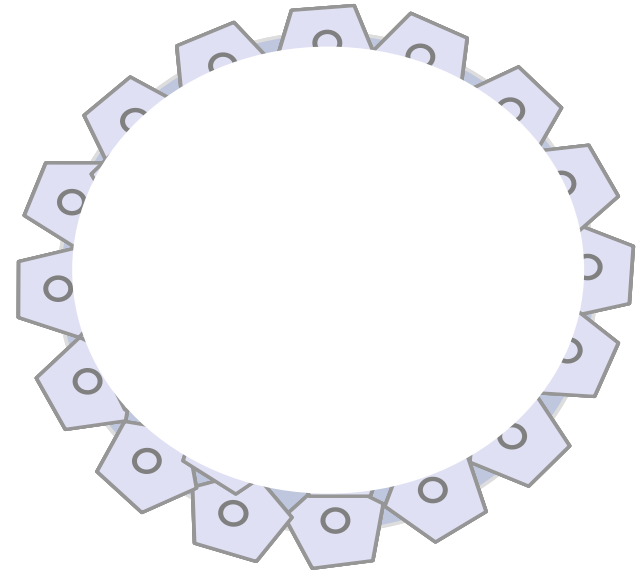
When to vaccinate?



HPV Virus



Virus Like Particles (VLPs)



Potential for coverage by type

Number of Types	HPV Type	Cummulative %
1	HPV 16	59
2	HPV 18	74
3	HPV 45	80
4	HPV 31	84
5	HPV 33	88
6	HPV 58	90
7	HPV 52	93

HPV Vaccines

Cervarix

- HPV 16, 18
- ASO4

Gardasil

- HPV 16, 18
- HPV 6, 11
- Alum

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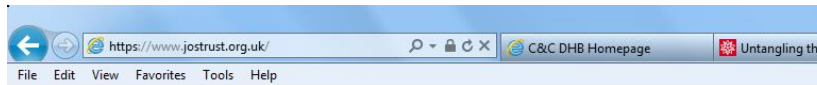
New Zealand

- Coverage approximately 50% eligible girls
- Girls and boys eligible now

Cervical cancer and HPV

- HPV – we all get it
- HPV vaccination safe
- HPV vaccination effective
- If you get asked – please don't hesitate

Jo's cervical cancer trust

[About us](#)[Information](#)[Support](#)[Get involved](#)[DONATE NOW](#)

How can you #BeCervixSavvy? Visit our Roadshow as it travels across the UK

[FIND OUT HOW](#)

Join us for our annual Steps for Jo's 5K walk or 10K run in June

[SIGN UP](#)

Information and support

Affected by cervical cancer?
Diagnosis, staging, treatment, side effects and life after cancer...

Received abnormal screening results?
Abnormal results, HPV testing, colposcopy and

Questions about cervical screening?
Cervical screening (smear test), what to expect and



EN 5:27 p.m.
2/05/2017

Questions?

