

EPIDEMIOLOGY, BURDEN OF DISEASE AND SURVEILLANCE OF HPV AND HPV RELATED CANCERS –NORTHERN IRELAND



Dr Lesley Anderson
Acting Deputy Director,
Northern Ireland Cancer Registry
l.anderson@qub.ac.uk

HPV-related Cancer Burden



- Cervical Cancer: 10 per 100,000 (2011-2015)
- Cervical Carcinoma in situ: 125.3 per 100,000 (2011-2015)
- Oropharyngeal Cancer: 337 cases diagnosed from 2000-2011. p16 positivity = 40.5%
- No data on burden of vulval, vaginal, penile, anal or other HPV-related sites conducted in Northern Ireland but on the agenda.

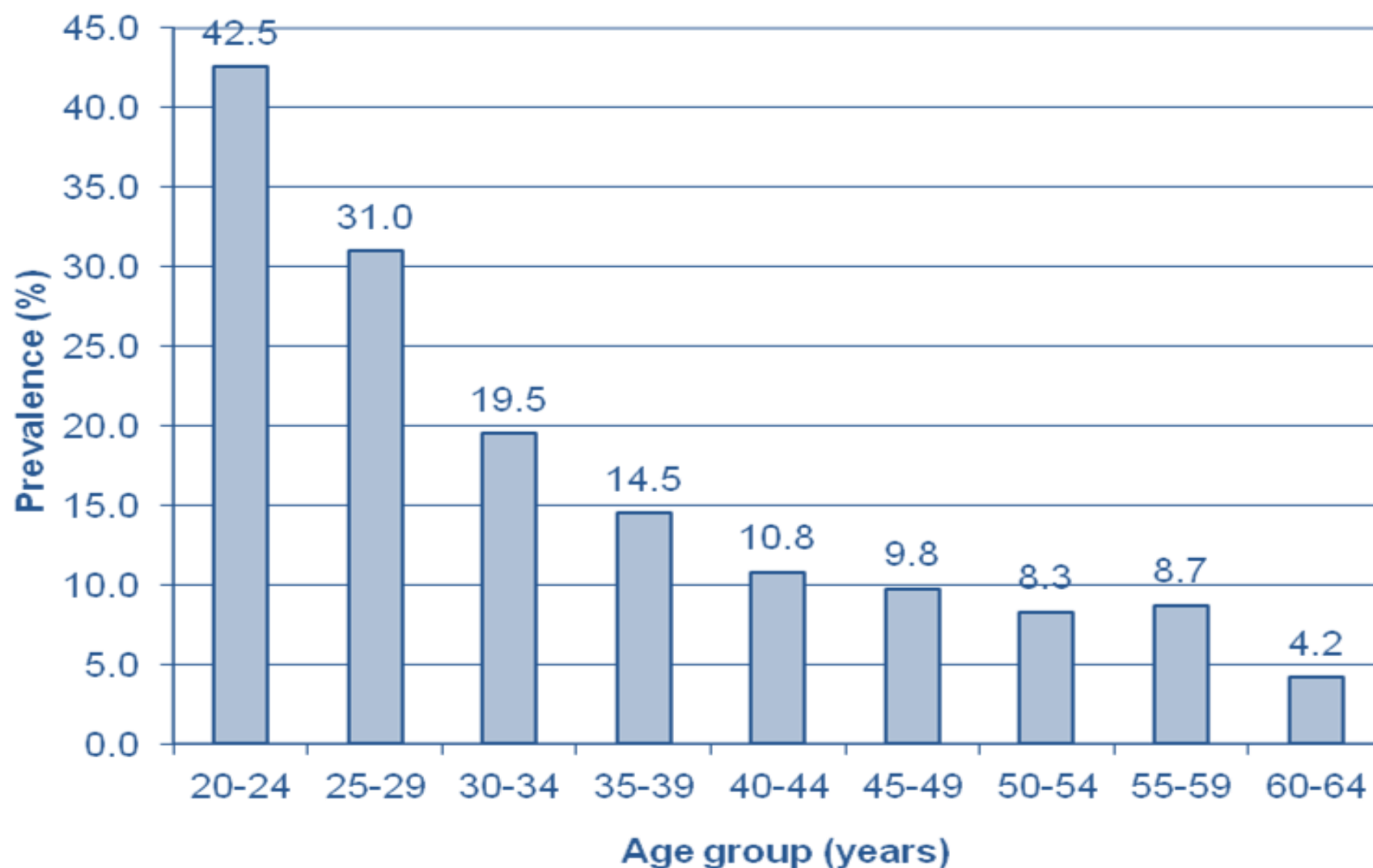
AIMS of HPV studies

- To determine the prevalence of HPV genotypes in women undergoing cervical screening in Northern Ireland before the introduction of HPV vaccination.
- To identify the HPV genotypes involved in high-grade cervical lesions and cervical cancer in NI.

Methods – Prevalence study

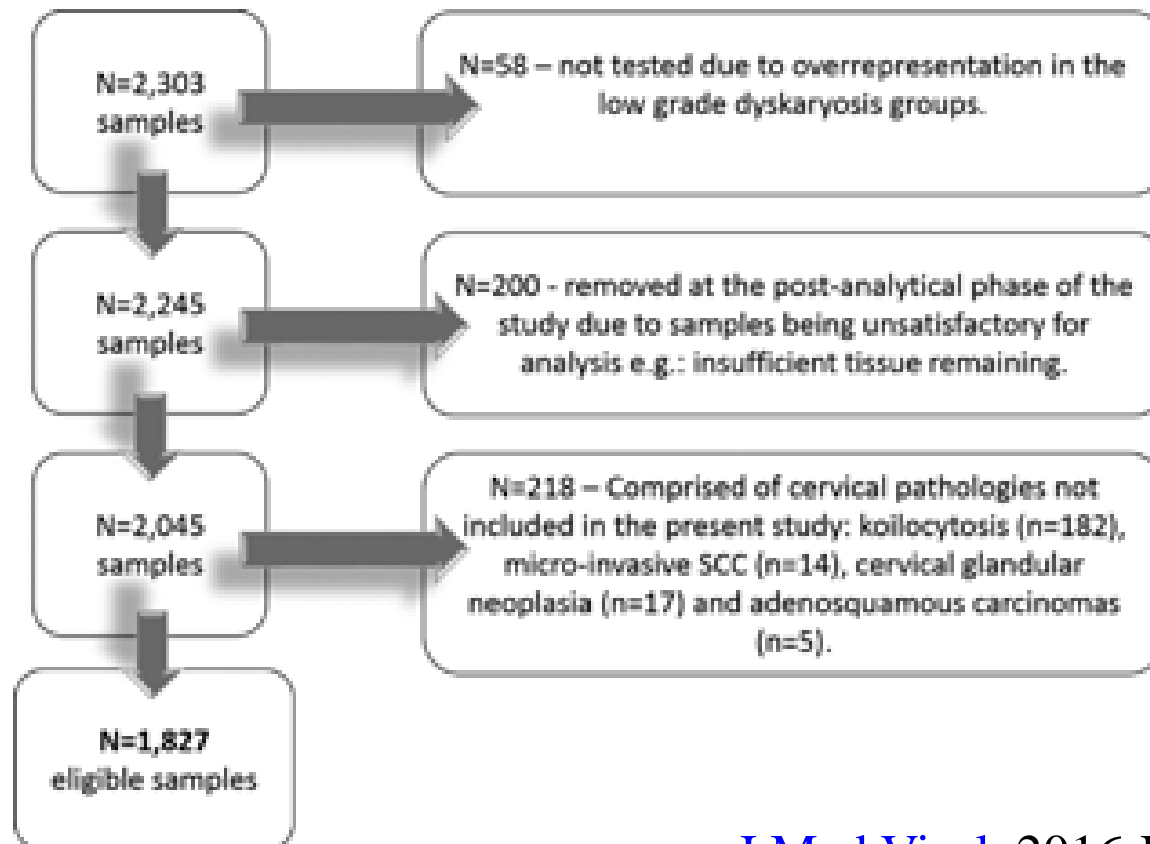
- Clinical liquid based cytology samples collected from routine screening (20-64 years) from Feb-Dec 2009.
- Testing on Roche COBAS 4800 – real-time detection of 14 high risk HPV genotypes followed by Roche Linear Array HPV genotyping test (37 HPV DNA genotypes detected).

High-risk HPV prevalence by age group in Northern Ireland women aged 20-64 years

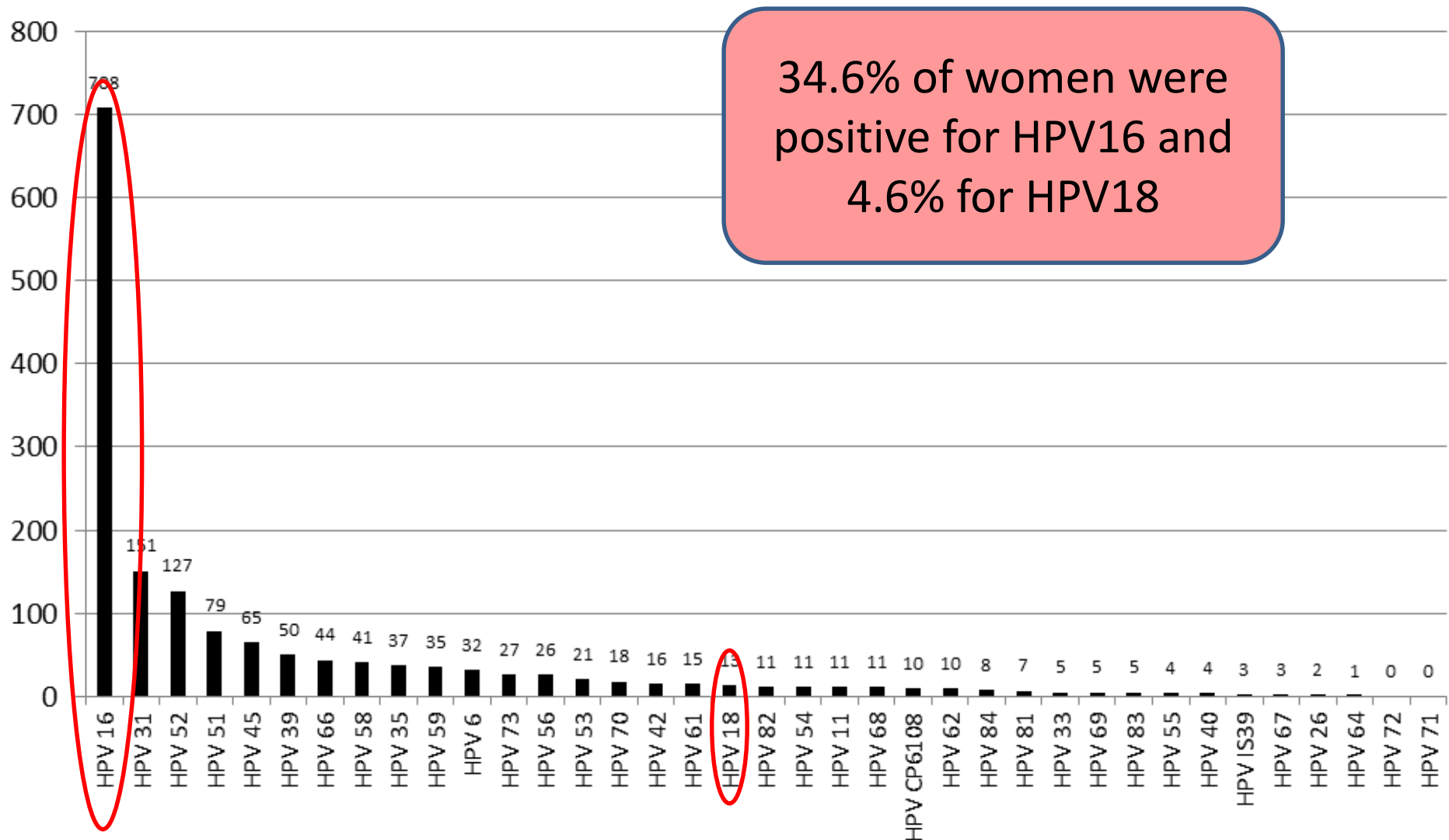


Methods – Cervical lesions study

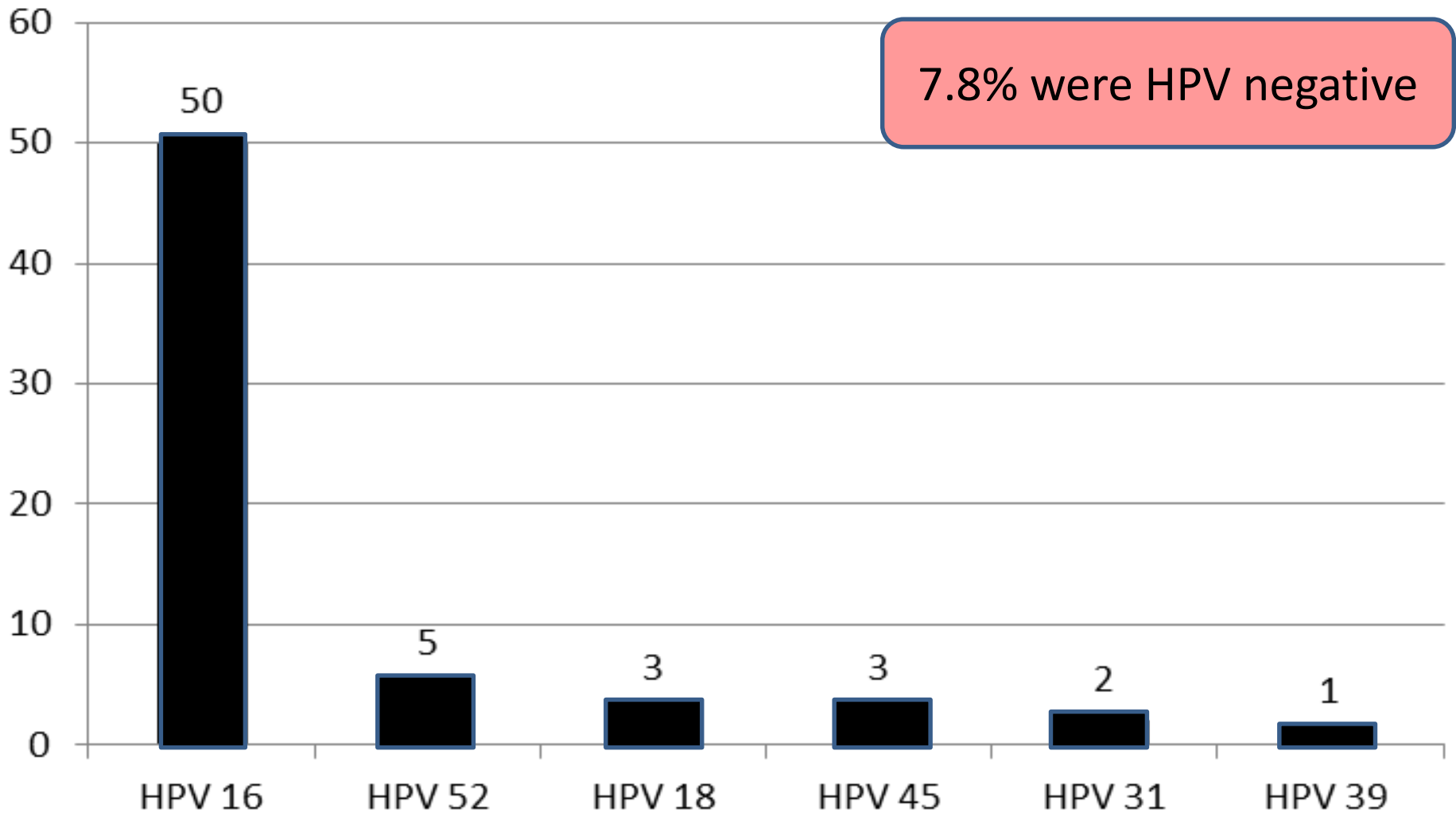
- Prospectively derived FFPE cervical tissue blocks from cervical lesions between April 2011 & Feb 2013.



HPV genotype distribution across all cervical lesions



Cervical Squamous Cell Carcinoma



Areas of current research

- HPV in oropharyngeal cancers, staging and prognosis?
- HPV and other infectious agents in oesophageal cancer.
- HPV knowledge and attitudes in parents.
- Novel urine based cervical cancer screening tools.

HPV Working Group Northern Ireland

Dr Anna Gavin (Chair)
Dr Lesley Anderson



Prof Dennis McCance



Ms. Jackie Jamison
Mr Robbie Wilson
Dr Jim Carson



Dr Tracy Owen
Dr Margaret Boyle



Dr Rosemary Clarke



Prof W Glenn McCluggage
Prof Peter Coyle
Dr Dianne McGibben



Acknowledgements

This project was funded by the Public Health Agency and R&D Office NI.

The work of the N. Ireland Cancer Registry is funded by a grant from the Public Health Agency for N. Ireland.