



Webinar:

Europe's Path to Eliminating Cervical Cancer

Brussels, February 5, 2021

International Agency for Research on Cancer









Europe's response to the global strategy: 5 priorities for action

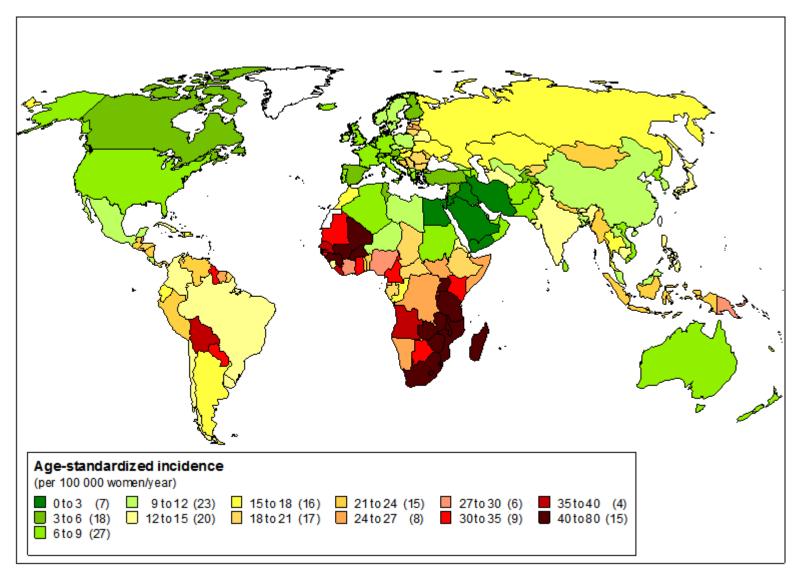
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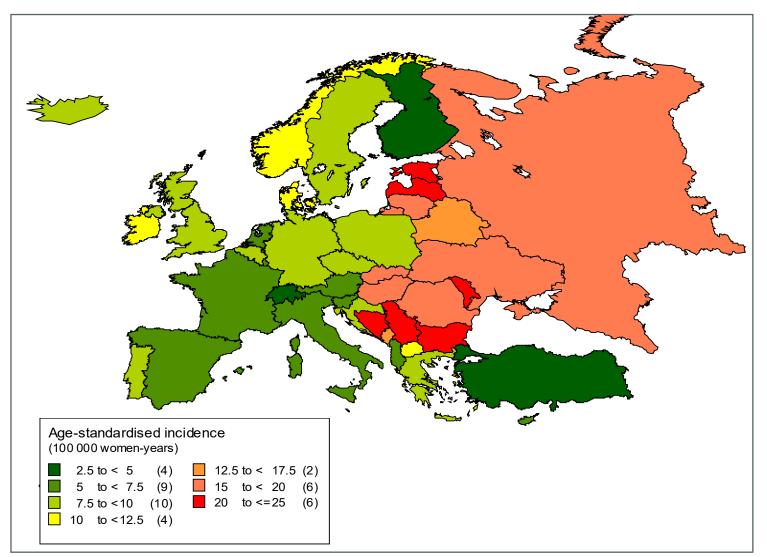
Contents

- Current burden of cervical cancer in EU
- 5 priorities:
 - Implement evidence-based recommendations
 - Optimise screening coverage & tackle inequalities
 - Optimise coverage of HPV vaccination
 - Organize and integrate 1ary and 2ary prevention in agreement with EU guidelines, including monitoring of quality & impact
 - Update the current EU recommendations

Incidence of cervical cancer (IARC, 2018)

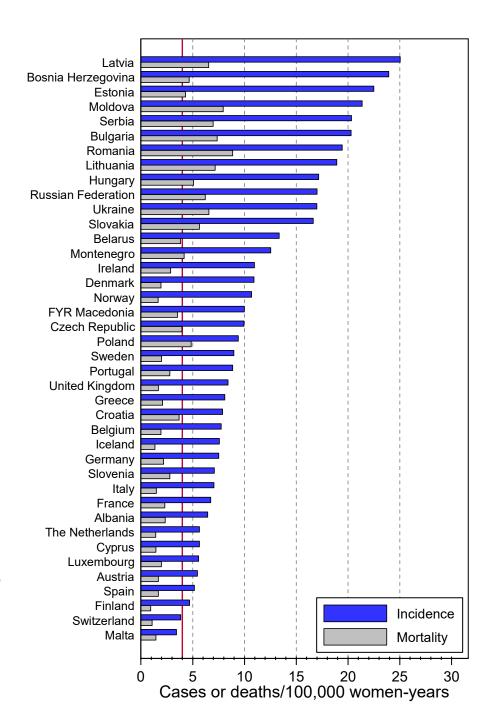


Incidence cervical cancer in Europe (2018)



Burden cervical cancer in EU (2018)

WHO elimination target:
ASIR<4/100,00
=> CC a vey rare disease



Burden of cervical cancer in (2018)

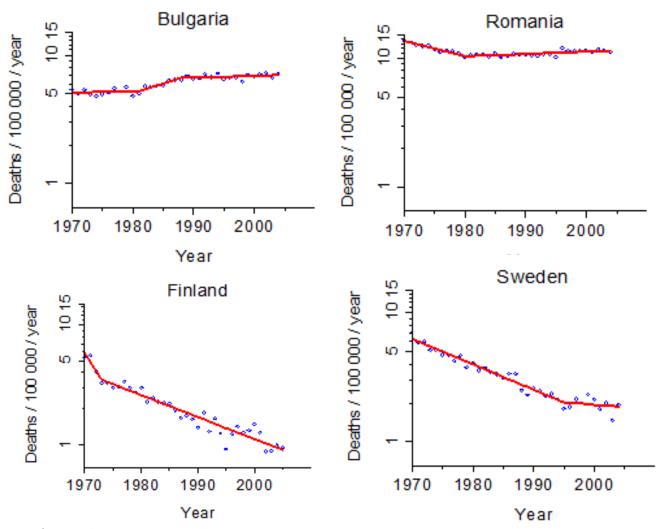
- EU: 33,000 cases, 15,000 deaths
- European continent: 61,000 cases; 26,000 deaths
- Incidence range: highest in Latvia (25.0/10⁵) lowest in Malta: 3.5/10⁵)
- Incidence & mortality: very high in Eastern EU

	Cases			Deaths		
	Incidence *	Rank (all ages)	Rank (15-44y)	Mortality *	Rank (all ages)	Rank (15-44y)
C-Eastern Europe	16.0	5	2	6.1	8	1
Northern Europe	9.5	13	3	2.1	17	2
Southern Europe	7.8	13	3	2.2	15	2
Western Europe	6.8	15	4	2.1	16	3

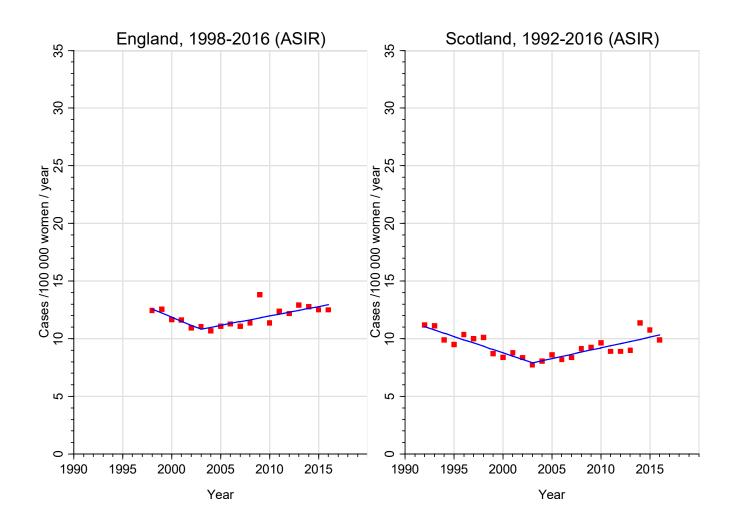
^{*} World age-standardized: per 100,000/year

M. Arbyn, E. Weiderpass, L. Bruni, S.S. de, M. Saraiya, J. Ferlay, F. Bray, Estimates of incidence and mortality of cervical cancer in 2018: a worldwide analysis, Lancet Global Health 8(2) (2020) e191-e120.

Impact of cytogoy screening on mortality from cervical cancer



Recent increase in cervical cancer incidence trends



1. Evidence based screening policies

- Strong evidence: HPV-based screening more effective than cytology to reduce future CIN3+, cancer^{1,2} => HPV screening is replacing cytology
- Co-testing more effective but more expensive (EU 2015 guidelines discourage co-testing
- hrHPV infections are frequent in young women but these infection usually clear
- Recommended policy:
 - Start HPV testing at age 30-35y up to 60-64y, 5y intervals
 - Age group 25-29/34: cytology (3 year interval)

^{2.} Ronco, Lancet 2014

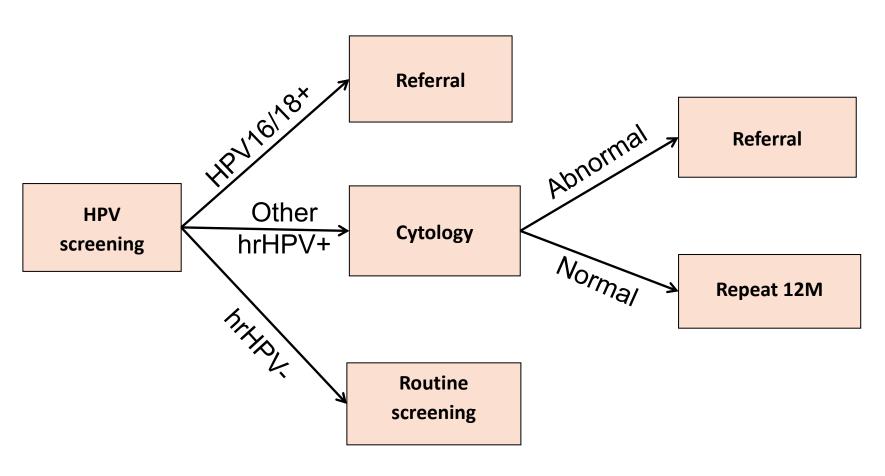
Management of HPV+ women

HPV+ women need further triage

- Cytology on the screening specimen
 - If abnormal cytology: referral to gynaecologist
 - If cytology is normal: women are retested with cytology or HPV test ~12 months later
- Several alternatives: including HPV genotyping & other markers
- Intensive research is ongoing on triage markers & algorithms

Triage algorithms for hrHPV+ (2)

USA



2. Optimising screening coverage: reaching non responders (Arbyn, BMJ 2018)

- HPV DNA testing on self-samples as accurate as on clinician collected samples (condition: use validated HPV assays, based on PCR
- Randomised evidence: sending self-samplers to women is more effective than sending reminder letters; important to reach 70% screening coverage
- Response highly variable ~ local setting
- Pilot studies needed to assess local response before general roll-out of a strategy with self-sampling
- Only in organised setting
- Safe in times of COVID-19

3. Maximise HPV vaccination coverage

- Strong contrasts in HPV vaccination coverage in EU (5-81%, WHO 2018)
- Low coverage in countries with high incidence (BU: 5%, RO; ?)

•Recommended:

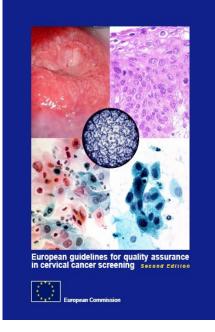
- all member states include HPV in the routine vaccination programmes, preferentially including also boys. WHO goal=90%.
- Implementation research needed to improve participation rates
- Transparent communication to increase confidence & tackle fake news spread by antivac lobbies

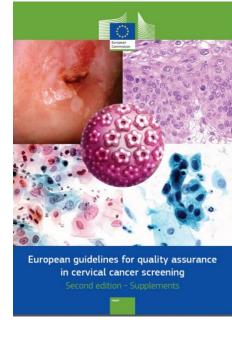
4. EU recommends organised screening

- Invitation of the target population
- Maximise coverage, avoid too frequent screening
- Quality assurance at all levels
- Monitoring: organised & opportunistic activity
 - Quality and impact of screening
 - Action towards improvement
- Allows for risk-based management
 - Linkage screening with vaccination registries
 - ⇒ effects of vaccination
 - ⇒ differentiated screening policies: start screening later, longer intervals, more specific screening/triage

5. Need for 3rd edition of EU guidelines for cervical cancer prevention

- 2nd ed (2008) pivotal for implementation of organised cytology-based screening with HPV testing to triage women with minor abnormal cytology, and surveillance after treatment of precancer
- Suppl 2nd ed (2015) pivotal for the introduction of HPV-based screening
- Need for 3rd ed: integrated HPV vaccination& screening with the purpose to eliminate CC as a public health problem









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Thank you for your attention





Arbyn, et al, The European response to the WHO call to eliminate cervical cancer as a public health problem, International Journal of Cancer 2021; 148: 277-84.