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Cervical cancer screening implementation in Eastern/Central Europe in November 2019:

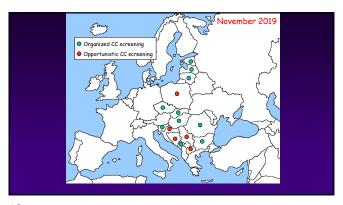
literature search of peer-reviewed journals in Medline/Pubmed, Web of Science, Scopus, Bing, Google Scholar, Google - without language or period restrictions

abstracts from main HPV-related conferences (2012-2019)

official websites of WHO, ECDC, ICO/TARC HPV Information Centre government websites: National Health Institutes, Ministries of Health update by emails

internal files

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10 countries organized cervical screening 5 countries opportunistic cervical screening cervical screening mainly based on convention implemented organized screening in December 2012 the coverage reached 29.8 % in 2015 stopped organized screening in January 2016 and has been since then reorganizing it widespread opportunistic screening Poland
- started organized screening in 2004
- coverage around 17%
- invitations stopped in 2016 by the decision of the Ministry of Health
- widespread opportunistic screening

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Conclusions - November 2019 situation officially proclaimed "organized" cervical cancer screening in 10/15 countries; only in single country coverage over 70%; in great majority of countries with "organized" screening coverage data not available; sumed substantial attendance outside the official national screening program (opportunistic settings) 5/15 countries opportunistic screening only; insufficient funding and infrastructure; low population coverage; moderate to poor quality cytology $national\ HPV-based\ organized\ cervical\ screening\ implemented\ in\ single\ country,\ but\ with\ extremely\ low$ coverage; in the remaining countries still cytology-based over-screening and under-screening: relatively high coverage in women below 40 and poor coverage in older women lack of financial resources; cervical cancer (women health) not high on political agenda; several countryspecific problems e.g. population registry lacking (BiH)



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- screening women 20-64 years
- screening every three years (after two consecutive negative results in one year period)
- conventional cytology, cytology interpreted by certified cytologists
- cross sectional sensitivity of cytology: CIN2+ = 66.2 %; CIN3+ = 80.6%
- HPV reflex testing for five indications

Integration of:

1. Central national registry of cytology, histology and HPV-test results
2. Central national population registry
3. National cancer registry

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year	annual number of new cases	crude incidence rate/ 100,000	ASR (W)	opportunistic screening	
2003	211	20.7	15.3	- coverage app. 40%	
2004	198	19.4	13.7	- 170,000 smears/year	
2005	182	17.8	12.7		
2006	162	15,8	11.3		
2007	154	15.0	10.5		
2008	130	12.6	8.8		
2009	131	12.6	8.8		
2010	142	13.7	9.4		
2011	142	13.7	9.0		
2012	118	11,4	7.7		
2013	124	11.9	8.0		
2014	114	11.0	6.8		
2015	119	11,4	7.4		
2016	123	11,8	7.8	organised screening	
2017	85	8.2	4.9	- coverage above 70% - 170,000 smears/year	
2018	106	10.2	6.6	170,000 silled 37 yed	

Three years coverage in national organized cervical cancer screening programme in Slovenia in different age groups (2007-2019)

Starostna skupina

20-24 let

25-29 let

30-34 let

35-39 let

40-44 let

45-49 let

55-55-59 let

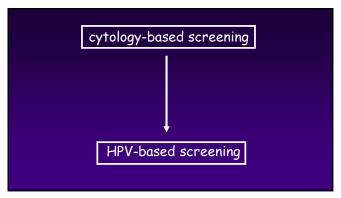
50-54 let

55-59 let

60-64 let

• Skupsj (20-64 let)

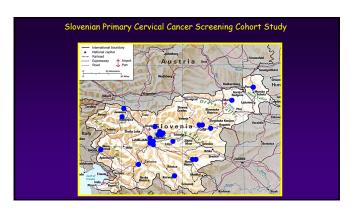
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conventional cytology-based screening
HPV-based borderline cytology triage; HPV test of cure (2010)

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Slovenian Primary Cervical Cancer Screening Cohort Study

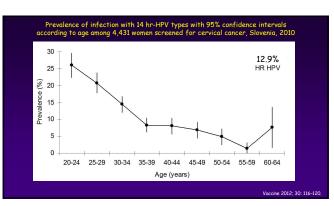
First screening round

4,507 unselected women aged 20-64 years, who attended routine PAP screening with local gynecologists (Dec 2009-Aug 2010)

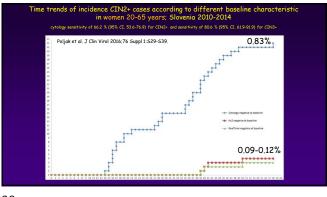
Second screening round

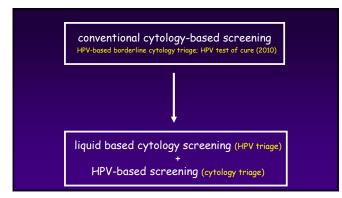
3,920 women that had 36-to 48-month follow-up result of hr-HPV DNA and/or cytology after a baseline screening round (Dec 2012-Dec 2014)

J Clin Microbiol 2011, 49, 1721-1729
Vaccine 2012, 30, 116-120
J Clin Wicrobiol 2011, 49, 1721-1729
Vaccine 2012, 30, 116-120
J Clin Wicrobiol 2011, 49, 1721-1729



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Fighting against wrong perception concerning HPV-based cervical cancer screening in Central and Eastern Europe

- more genotypes = better HPV test
- higher price = better HPV test
- manufacturers' rumors (bizarre case reports, biased evaluations, L1 deletion story...)
- long screening rounds are unsafe (even with shorter rounds they missed carcinomas...)
- lobbies (cytologists, gynecologists, colposcopists...new role for all should be identify)
- experiment serving diagnostic companies
- general mistrust in the ineffective public health system

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Before we start...

performing local HPV genotype distribution studies in women with normal cytology, HSIL and/or cervical cancer prior implementation of primary HPV screening is <u>not necessary any more</u> – use available regional data

performing additional local evaluation of already clinically validated HPV tests (other than feasibility studies) prior implementation is <u>not necessary any more</u> for any of the approved indications of HPV testing (including primary HPV screening) – use available general and regional data

do not complicate, do not reinvent wheel, trust more experienced colleagues and their results

avoid use of non-validated HPV tests; non-validated HPV tests should not be used in clinical management and primary HPV screening

do not waist time - in several CEECA countries at least one woman in 50 will develop cervical cancer in 2020

COVID-19-related problems arising: shifted interest of public and politicians ("nothing is important but COVID-19"), temporary pause of cervical cancer screening programs; manufacturer's shift toward new niche market with unprecedented market growth opportunity; "new normal" with unclear future

Preventable fractions of cervical cancer via effective screening in six Baltic, central, and eastern European countries 2017–40: a population-based study

Summary
Lancet Oncol 2016; 17: 1445-1452
Background Cervical cancer incidence remains high in several Baltic, central, and eastern European (BCEE) countries

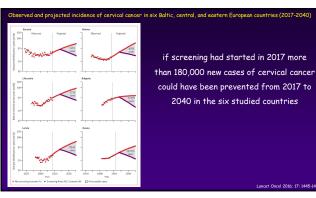
Background Cervical cancer incidence remains high in several Baltic, central, and eastern European (BCEE) countrie mainly as a result of a historical absence of effective screening programmes. As a catalyst for action, we aimed estimate the number of women who could be sparsed from cervical cancer across six countries in the region durir the next 25 years, if effective screening interventions were introduced.

Metodo in this population-based study, we applied age-period-cubort models with spline functions within a Bayesian finamework to inclined eath from its BCE countries (Entite). List Lilbutani, Behars, higher, and Rossis) edectop projections of the future number of new cases of covical cancer from 207 to 20th based on no future of the contract of the

Indiaga, Accreding to scenario A, projected incidence rates will continue to increase substantially in narus RCEE countries. Very high age-standardised rates of erovical cancer are predicted in Halmania, Lands, Belanus, and Hessian (sp to 83 cases per 190000). According to scenario 8, the beneficial effects of effective screening will increase progressively were time-longing to 32-6896, relaction of the previous discherace rates promout 2004, resulting in the prevention of cervation cancer in 1970 seconds in additional and more than 157000 sources in Russia. The immediate previol in these its ECE countries studied:

Interpretation Based on our findings, there is a clear need to begin cervical screening in these six countries as so need to be to reduce the high and increasing incidence of cervical cancer over the next decades

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Acknowledgements

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