HIV and HCV incidence estimates among PWID from the Latvian PWID cohort study

Anda Kivite, PHD, MPH

National DRID expert, Reitox focal point, Centre for Disease prevention and Control of Latvia

Assistant Professor, Department of Public Health and Epidemiology, Riga Stradins University

RĪGAS STRADIŅA UNIVERSITĀTE

VITA BREVIS ARS LONGA

Riga Drug User's Cohort Study (RDUCS)

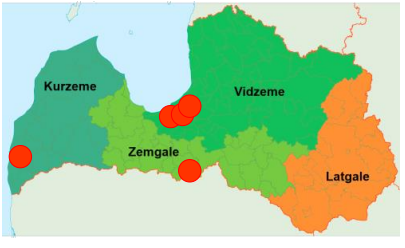
- Launched in 2006, in 2016 - the 9th wave of the study
- In each wave of the research the same respondents are reached; in case of necessity also new drug users are included
- HIV, HCV (also HBV, syphilis) express-testing – in 2012, 2013, 2014, 2016
- People with positive HIV or HCV tests – not tested repeatedly the next wave
- Field work led and coordinated by the low-threshold centre "DIA + LOGS"

RĪGAS STRADIŅA UNIVERSITĀTE

Sample size and sites

Year	Sample size	Number of persons tested
2012	515	379
2013	529	373
2014	539	399
2016	546	369

- Five geographical areas of Latvia - Riga, Jurmala, Ogre, Liepaja and Bauska



RĪGAS STRADIŅA UNIVERSITĀTE

Results 2014 vs 2016 - HIV

		Results, 2016		
		Negative	**Positive**	Total
Results, 2014	**Negative**	**198**	**5**	203
	Positive	**0**	**3**	3

2.5%

1	2	3	4	5
Bauska	Riga	Riga	Riga	Bauska
male	female	male	male	male
40 years	38 years	36 years	38 years	26 years
amphetamine	amphetamine	heroin	Subutex	heroin
17 years inj.	22 years inj.	21 years inj.	22 years inj.	4 years inj.

RĪGAS STRADIŅA UNIVERSITĀTE

Results 2014 vs 2016 - HCV

		Results, 2016		
		Negative	**Positive**	Total
Results, 2014	**Negative**	**38**	**10**	48
	Positive	**3**	**19**	22

20.8%

1	2	3	4	5	6	7	8	9	10
Riga	Riga	Riga	Bauska	Riga	Riga	Riga	Riga	Riga	Riga
male	female	male	male	female	male	male	female	male	male
49 years	38 years	46 years	26 years	27 years	24 years	28 years	26 years	24 years	48 years
heroin	amph	amph	heroin	amph	amph	amph	amph	amph	heroin
30 years inj.	22 years inj.	26 years inj.	4 years inj.	6 years inj.	4 years inj.	6 years inj.	5 years inj.	4 years inj.	30 years inj.

"Latvian Café"

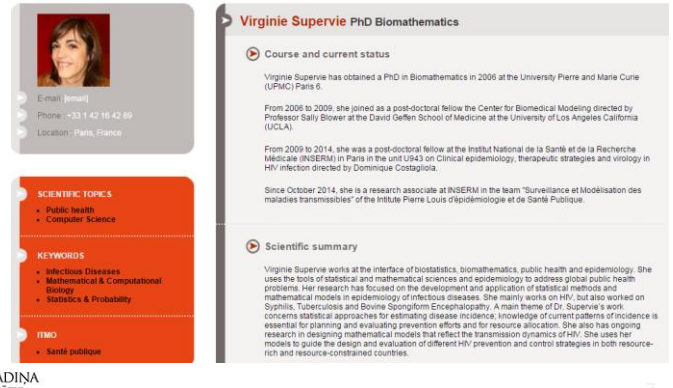
HIVera

- **- HERMETIC -**
  Hiv **E**uropean **R**esearch on **M**athematical Modelling and **E**xperimentation of HIV **T**esting **I**n hidden **C**ommunities
- Nov 2015 – Oct 2018

Partners

- **Main partner** - INSERM (French National Institute of Health and Medical Research), France

- Project leader – **Virginie Supervie**



Partners

!!! 4 countries, 8 teams, 27 experts

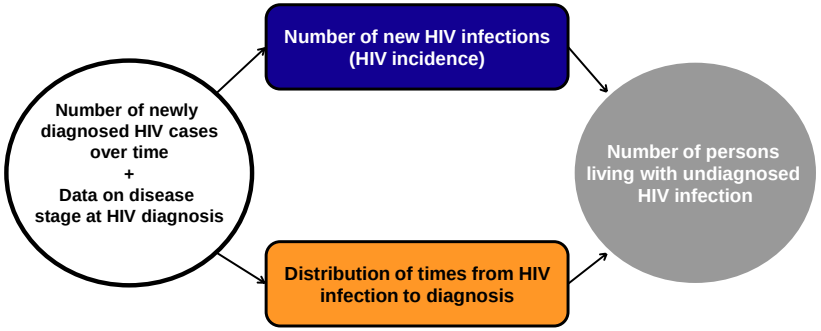
- **Latvia** – RSU (Rīga Stradins University)
- France – AIDES
- Belgium - WIV-ISP (Scientific Institute of Public Health)
- Belgium - ITM (Institute for Tropical Medicine)
- Estonia – NIHD (National Institute for Health Development)

HERMETIC project's aims

- **Aim 1: Combining statistical modelling and existing HIV surveillance data to estimate important characteristics of the HIV epidemic in the participating countries**
- **Aim 2: Developing, implementing, and evaluating targeted and innovative pilot testing project based on the outcome of the modelling**
- **Aim 3: Developing and disseminating a guiding framework for the translation of modelling into targeted interventions**

Aim 1: Unravelling the hidden paramaters of the HIV epidemic

- Data: surveillance data on newly diagnosed HIV cases
- Methods: mathematical modelling (back-calculation approach)




Paldies par uzmanību! Thank you!