

Cascade of care for HIV and hard to reach populations in Central, Eastern and South Eastern Europe - data from ECEE Network

T. Balayan¹, C. Oprea², O. Yurin³, D. Jevtovic⁴, J. Begovac⁵, B. Lakatos⁶, D. Sedlacek⁷, I. Karpov⁸, A. Horban⁹, J. Kowalska⁹ for the ECEE Network Group

¹National Center for Disease Control and Prevention, Yerevan, Armenia, ²Carol Davila University of Medicine and Pharmacy, Victor Babes Clinical Hospital for Infectious Diseases, Bucharest, Romania, ³Central Research Institute of Epidemiology, Federal AIDS Centre, Moscow, Russian Federation, ⁴Belgrade University Medical School, Infectious Diseases Hospital, Belgrade, Serbia, ⁵University of Zagreb School of Medicine, University Hospital of Infectious Diseases, Zagreb, Croatia, ⁶Saint Laszlo Hospital National Center of HIV, Semmelweis University Faculty of Infectious Diseases, Budapest, Hungary, ⁷Charles University Hospital in Pilsen, Czech Republic, ⁸Belarus State Medical University, Minsk, Belarus, ⁹Hospital for Infectious Diseases, Medical University of Warsaw, Poland

Background

- •Inaccurate HIV care for hard-to-reach populations may result in failing the UNAIDS 90-90-90 goal.
- •Therefore, we aimed to review the HIV cascade of care and to identify hard-to-reach populations in Central (CE), Eastern (EE) and South Eastern Europe (SEE).

Methods

- •Euroguidelines in Central and Eastern Europe (ECEE) Network Group was established in February 2016 with the purpose to review standards of care for HIV in the region.
- •Information about each stage of HIV cascade of care and hard-to-reach populations corresponding to each stage was collected through on-line surveys.
- •Respondents were ECEE members (one per country) chosen based on their expertise and involvement in national HIV care.
- •Data sources (year 2016) used by respondents included HIV Clinics electronic databases, Institutes of Public Health, Centers for AIDS Preventions, and HIV Programme Reviews.

Results

- •The lowest percentage of HIV positive persons linked to care was 60% in CE.
- •EE reported having the lowest percentage of HIV positive persons on ART (50%) and the lowest percentage of persons virologically suppressed while on ART (32%) (Table 1).
- •The proportion of late presenters among newly diagnosed ranged between 15-55% in CE, 40-55% in EE, and 48-60% in SEE.
- •All three regions reported PWIDs as hard-to-reach population across all HIV cascade stages. Migrants were the second most reported hard-to-reach population (Figure 1).
- •Six countries reported ARVs' delivery delays resulting in treatment interruptions in 2016: four (50%) in SEE, one (20%) in CE, and one (16.7%) in EE.

Conclusions

- •Some countries are close to the UNAIDS 2020 goals, others need to strive for progress.
- •Irrespective of the diversity in national HIV epidemics, countries from all three regions reported PWIDs as hard-to-reach population across all HIV cascade stages.
- •However, differences in data sources and variations in definitions limit the utility of cascade of care as a comparative tool.

Table 1. The HIV Cascade of Care in Central, Eastern and South Eastern Europe

	T .		Г
	PLHIV linked	HIV	Virologicaly
	to HIV care	positive	suppressed
	after HIV	persons	while on
	diagnosis	on ART	ART
Central Europe	60-96%	80-93%	70-95%
Eastern Europe	71-92%	50-80%	32-95%
South Eastern Europe	80-100%	80-99%	62-97%

Figure 1. Populations hard-to-reach with HIV testing, treatment and care

	Populations Hard To Reach with:				
	HIV testing	linkage to HIV care	starting ART	retention on ART	
Central Europe Czech Republic Slovakia Poland Slovenia Hungary	PWIDs, women, pregnant women, adolescents less MSM and SWs	Mostly migrants also PWIDs, women, prisoners	PWIDs, also women, adolescents and migrants	PWIDs, also migrants and MSM	
Eastern Europe Belarus Estonia Armenia Moldova Ukraine Georgia	PWIDs, SWs, less MSM	PWIDs, SWs, also migrants	PWIDs, also adolescents SWs and migrants	PWIDs, adolescents also migrants and SWs	
South Eastern Europe Serbia Albania Bosnia Herzegovina Greece Croatia Bulgaria Turkey Romania	SWs, PWIDs, MSM, migrants, prisoners	SWs, PWIDs, migrants	PWIDs, migrants, also women and adolescents	PWIDs, migrants, also SWs and perinatally infected young adults	

PWIDs - people who inject drugs, SWs - sex workers, MSM - men having sex with men

ECEE Network Group:

Alexiev I (Bulgaria), Afonina L(Russia), Antonyak S (Ukraine), Balayan T (Armenia), Bednarska A**(Poland), Begovac J (Croatia), Bukovinowa P (Slovakia), Burkacka E**(Poland), Bursa D (Poland), Bolokadze N (Georgia), Caplinskas S (Lithuania), Chkhartishvili N (Georgia), Cholewińska-Szymańska G**(Poland), de Witt S*(Begium), Dragovic G (Serbia), Goekengin D* (Turkey), Harxhi A (Albania), Higersberger J**(Poland), Holban T (Moldova), Horban A*(Poland), Jevtovic D (Serbia), Jilich D (Czech Republic), Karpov I (Belarusia), Konopnicky D (Belgium), Kowalska J*(Poland), Ladnaya N (Russia), Lakatos B (Hungary), Lundgren JD* (Denmark), Marczyńska M (Poland), Mardarescu M (Romania), Matłosz B (Poland), Mulabdic V (Bosnia-Herzegovina), Oprea C* (Romania), Otelea D (Romania), Paciorek M**(Poland), Panteleev A (Russia), Papadopoulos A (Greece), Pietraszkiewicz E (Poland), Podlasin B**(Poland), Podlekareva D (Denmark), Pozniak A*(United Kingdom), Pula J** (Poland), Sedlacek D (Czech Republic), Skrzat-Wojdacz A** (Poland), Simonović-Babić J (Serbia), Sluzhynska M (Ukraine), Streinu-Cercel A (Romania), Tomazic J (Slovenia), Rukhadze N (Georgia), Ruutel K (Estonia), Stańczak J** (Poland), Vassilenko A (Belarusia), Vasylyev M (Ukraine), Youle M*(United Kingdom), Yurin O (Russia), Zabłocka H (Poland) Scientific Committee* Organizing Committee**