

Cascade of Care in Romanian Patients who grew up with

HIV from a Tertiary Care Facility



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P215

Background

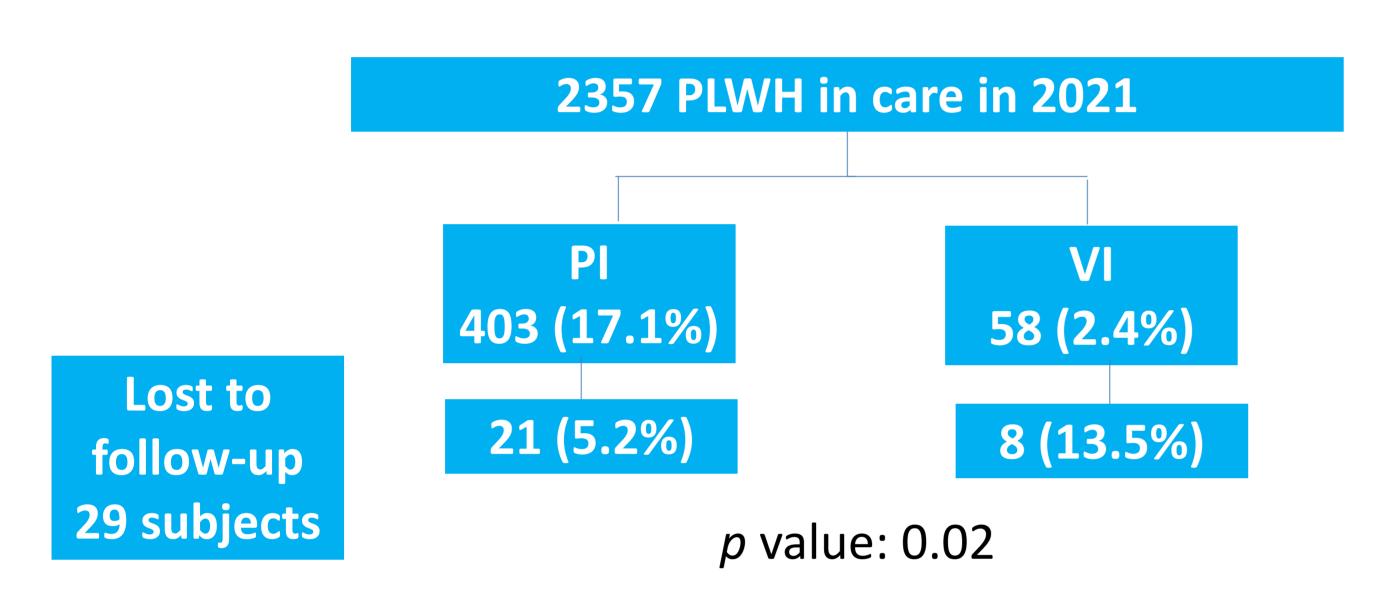
- A particular aspect of HIV epidemic in Romania is the homogenous group of individuals, infected by parenteral mode, with subtype F1, in early childhood, in the late 80's. Among 11.500 reported cases at national level, 45% were in active care at the end of 2021.
- The aim of the study was to evaluate antiretroviral treatment (ART) coverage and effectiveness in people living with HIV (PLWH), infected by parenteral mode during childhood (PI), in active care at Victor Babes regional center, Bucharest (VBH).

Methods

- Demographic data, ART and HIV parameters (CD4 count and viral loads-VL) were collected from medical records.
- Data from PI was compared with vertically infected subjects (VI). Cascade of care for this subpopulation was conducted for year 2021.
- PLWH were considered virally suppressed if their most recent VL, measured within the past year, was less than 50 copies/mL.

Results

PI and VI PLWH in active care VBH in 2021



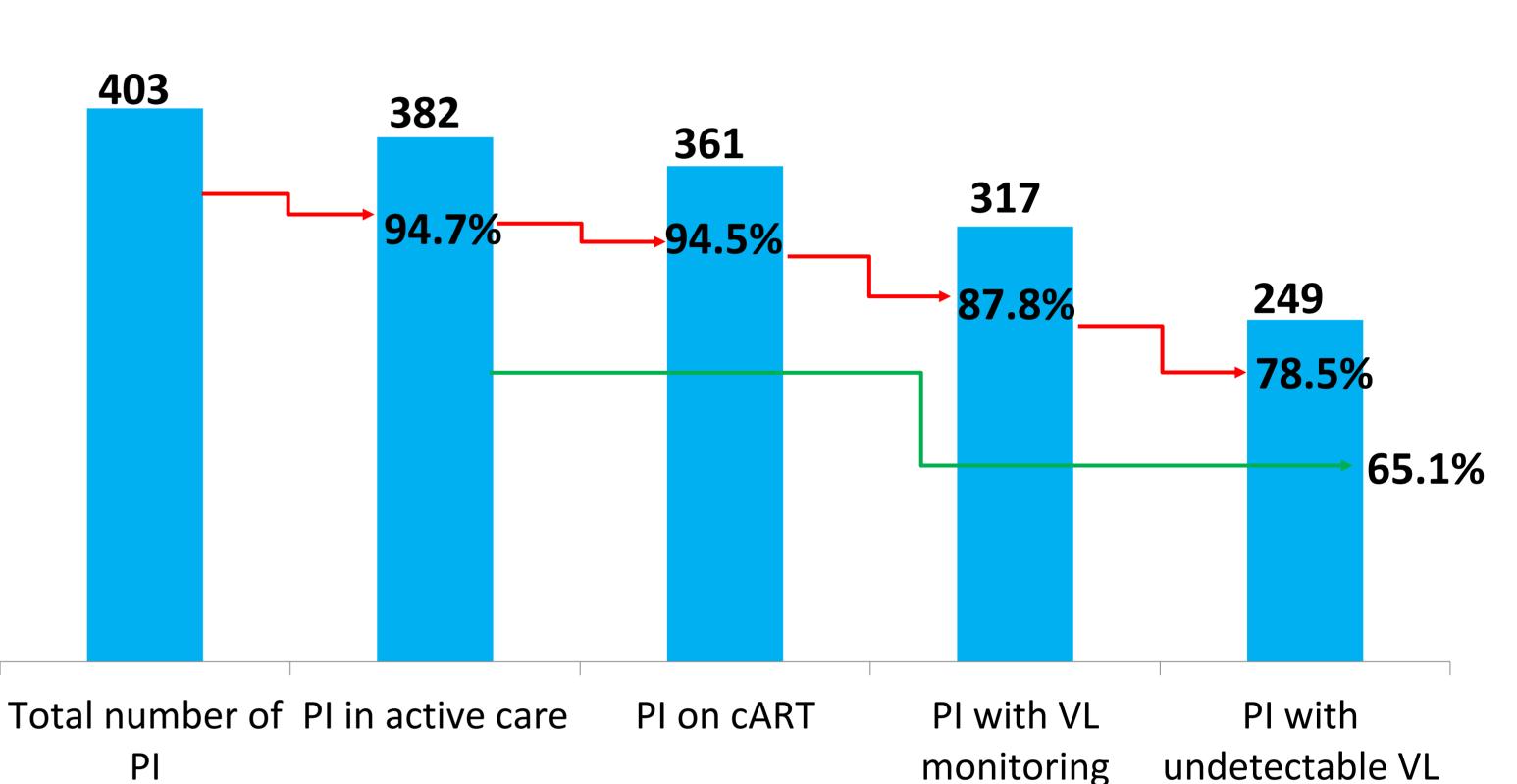
Study group: demographics, ART and lab screens

Characteristics		Total n=432	PI n=382	VI n=50	p value
Age (years) median (IQR)		33 (33, 34)	33 (33, 34)	19 (13, 24)	<0.0001
Male sex	n (%)	227 (52.5)	198 (51.8)	29 (58.0)	0.25
Patients on AF		405 (93.7)	361 (94.5)	47 (94.0)	0.61
CD4 cell count mediar	•	631 (390, 888)	626 (392, 880)	846 (429, 1184)	0.08

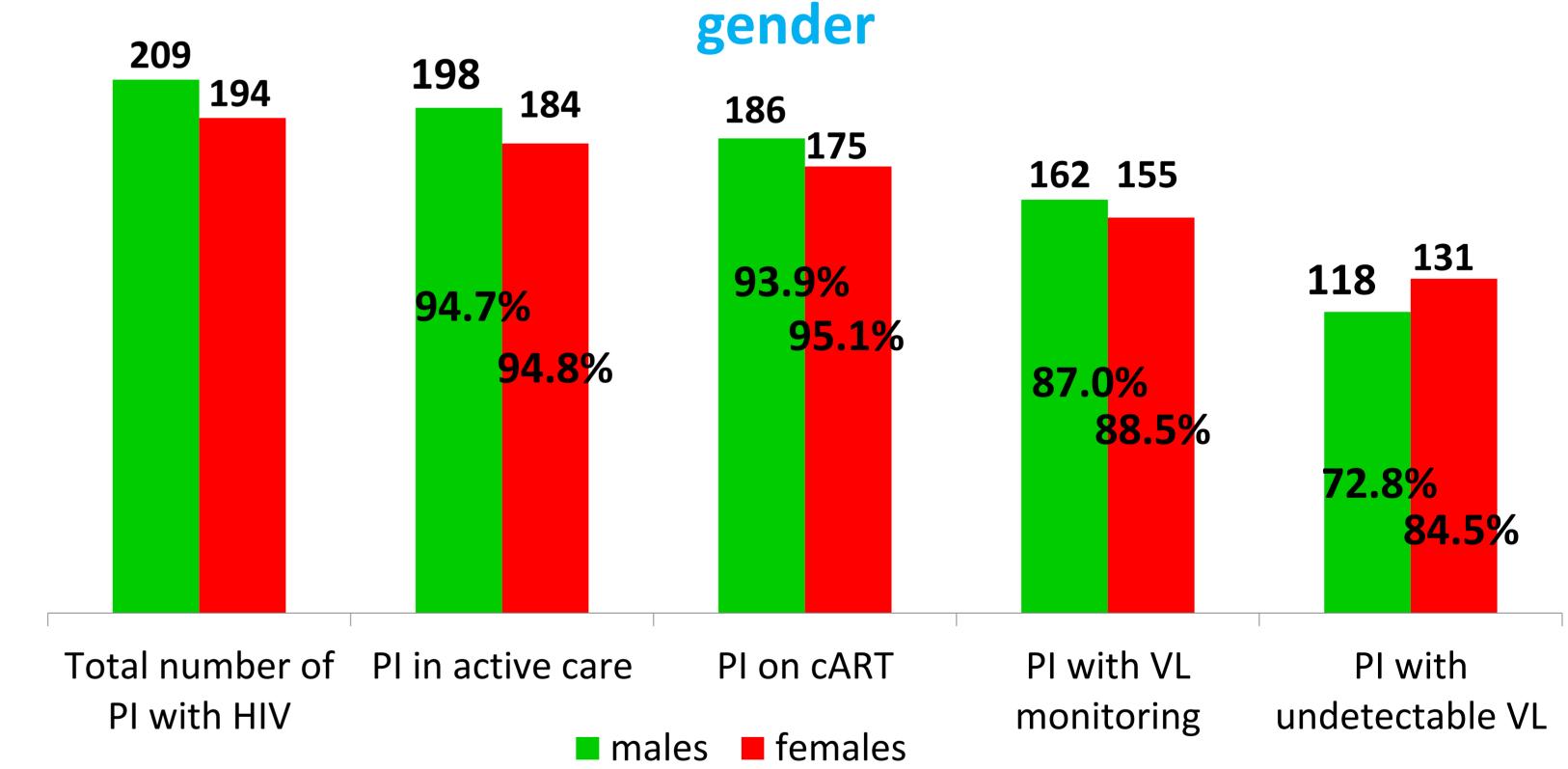
ART regimens - comparison depending on modes of HIV acquisition

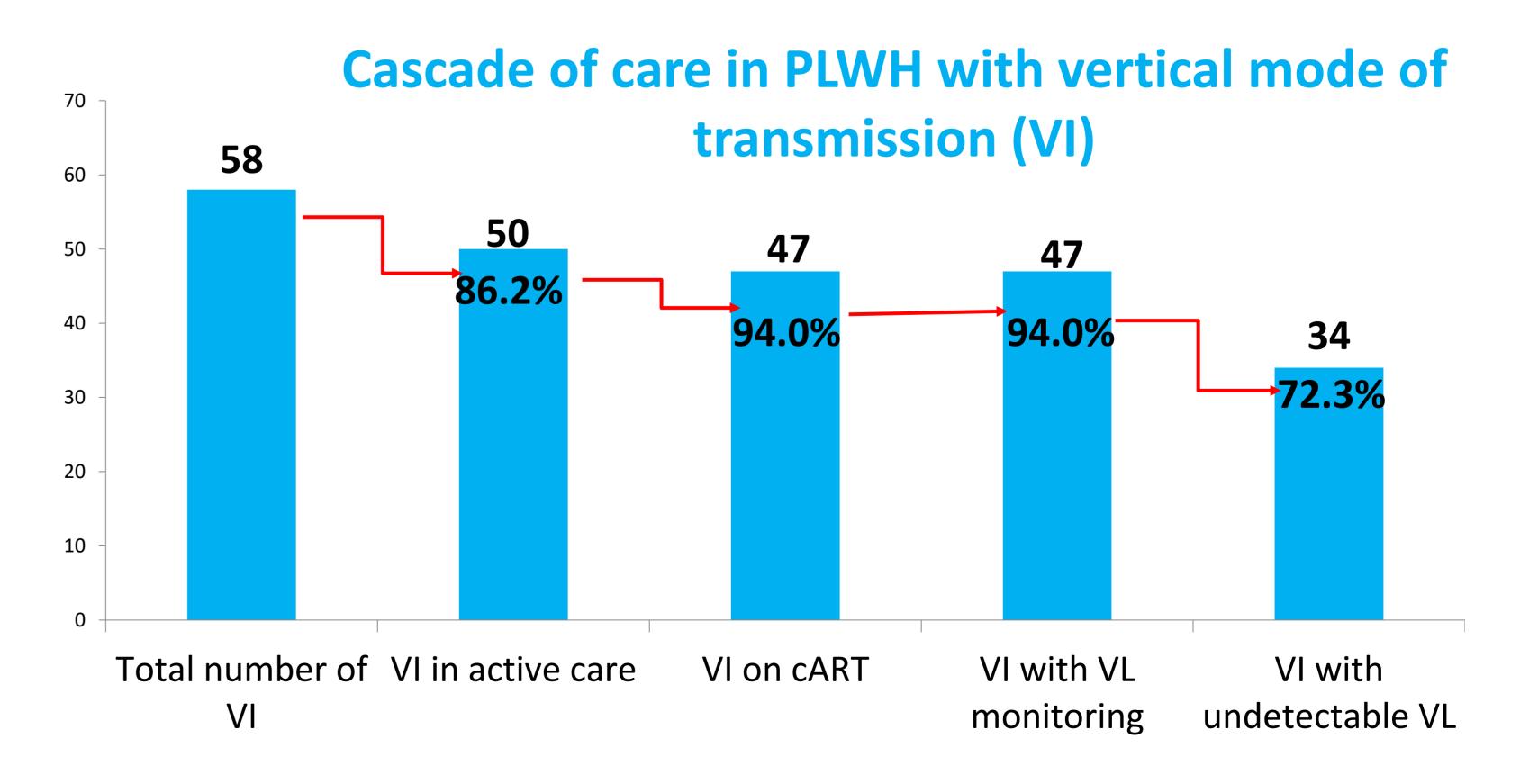
ART regimens*		Total	PI	VI	p value		
		N=375	N=332	N=43			
2NRTI + INSTI		178	164	14			
		(47.4)	(49.3)	(32.5)			
2NRTI + PI/r		71	62	9			
	n (%)	(18.9)	(18.6)	(20.9)	<0.0001		
2NRTI + NNRTI		29	18	11			
		(7.7)	(5.4)	(25.5)			
Salvage regimen		97	88	9			
		(25.8)	(26.5)	(20.9)			
*ART regimens were available only for 375 patients, 332 PI and 43 VI							

Cascade of care in PLWH infected by parenteral mode during childhood (PI)



Cascade of care in PI group – comparison according on





Conclusions

- Despite a good ART coverage, there were still some barriers in reaching the 90-90-90 UNAIDS targets in both groups.
- Virological failure was mainly due to lack of adherence and treatment fatigue in both groups.
- The COVID-19 pandemic had a negative impact on HIV cascade of care, affecting regular visits to clinic and HIV viral load monitoring.
- Intervention strategies to optimize treatment response and psychological support must be prioritized.