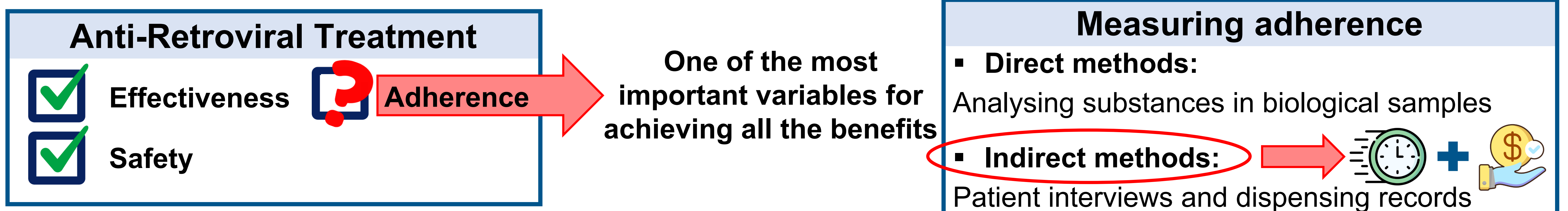


# MEASURING ADHERENCE TO ANTIRETROVIRAL TREATMENT: CORRELATION AND CONCORDANCE BETWEEN TWO INDIRECT METHODS

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## Background and Importance



## Aim and Objectives

- To describe ART adherence in people living with HIV (PLHIV)
- To analyse the correlation and the concordance between two indirect methods used to measure adherence:
  - Single Item Rating Scale answered with a Visual Analog Scale (SIRS-VAS)
  - Medication Possession Rate (MPR)

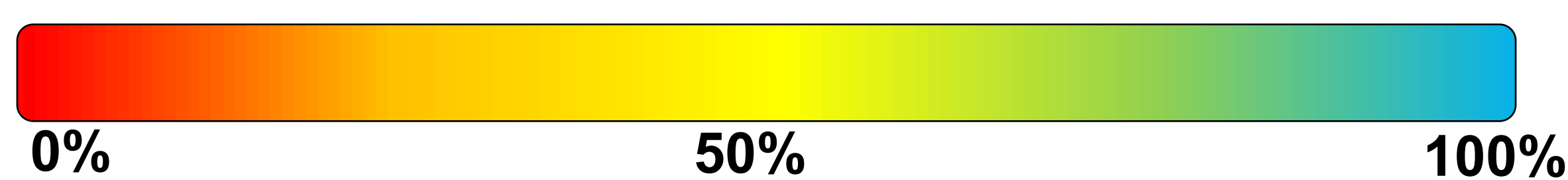
## Materials and Methods

Multicenter (5 centers), observational, prospective and cross-sectional study

- Inclusion criteria: adult PLHIV on ART

### SIRS-VAS:

Ask about the % of ART taken in the previous month



### MPR:

$$\text{MPR}(\%) = \frac{\text{Days covered by the medication dispensed}}{\text{Time interval (6 months)}} * 100$$

Adherent or Non-adherent with different cut-off points: 95%, 90%, 85% and 80%

## Results

### Descriptive statistics:

- N = 128
- Age: 20-81 years old ( $\bar{x}$ =46.9±11.7)
- 112 men, 14 women and 2 non-binary people

### SIRS-VAS:

- Mean ± SD : 96.9 ± 5.8 %

### MPR

- Mean ± SD : 96.8 ± 7.0 %

### Correlation:

r = 0.31, p<0.001

### Qualitative concordance

Adherence cut-off point	K	p
95%	0.318	0.000
90%	0.280	0.001
85%	0.127	0.145
80%	-0.030	0.724

## Conclusion and Relevance

- The adherence to ART in our population is optimal
- The correlation between the SIRS-VAS and the MPR was only modest
- The concordance between both measures was higher for people with high adherence results