

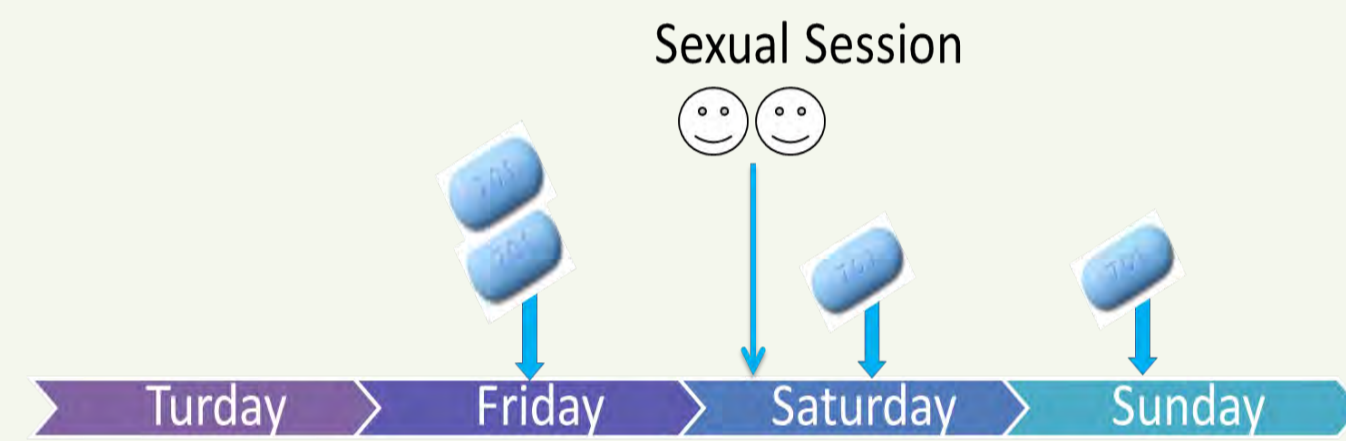
1034-Coverage of Sex Events With On Demand PrEP – A MEMS sub-study of the ANRS IPERGAY trial

Objective

We wished to assess in the setting of the ANRS IPERGAY trial among MSM, the coverage of sex events with “on demand” event-based PrEP.

Methods

- On demand TDF/FTC dosing regimen
 - 2 pills within 2-24 hours before sex
 - 1 pill 24 hours later
 - 1 pill 48 hours after first drug intake.



- A 2-month sub-study proposed to participants enrolled in the open-label phase of the ANRS IPERGAY trial, from March 1st to May 3rd 2016.

- Electronic MEMS recorded each time of opening.



- Adherence was also measured by pills count from returned pills at the end of the sub-study.

- Daily computer assisted self-interview

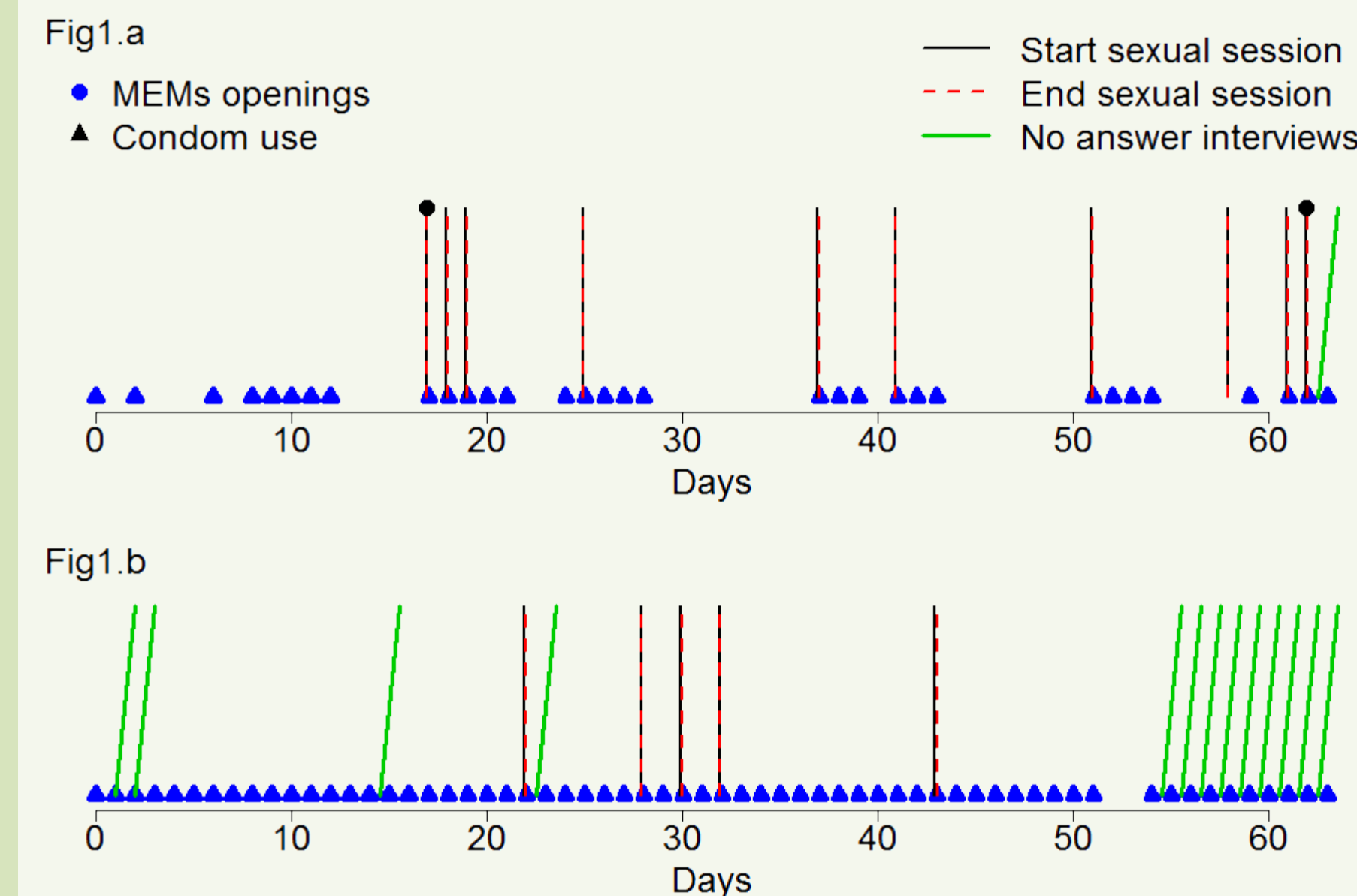
- Sexual session: yes/no
- Sexual practices
- Time of start and end sexual session.

PrEP user

Each participant was classified into:

- Intermittent user: < 5 pills / week
- Daily user: ≥ 5 pills / week

Fig.1: Example of an intermittent user (a) and a daily user (b)



PrEP coverage of sexual session

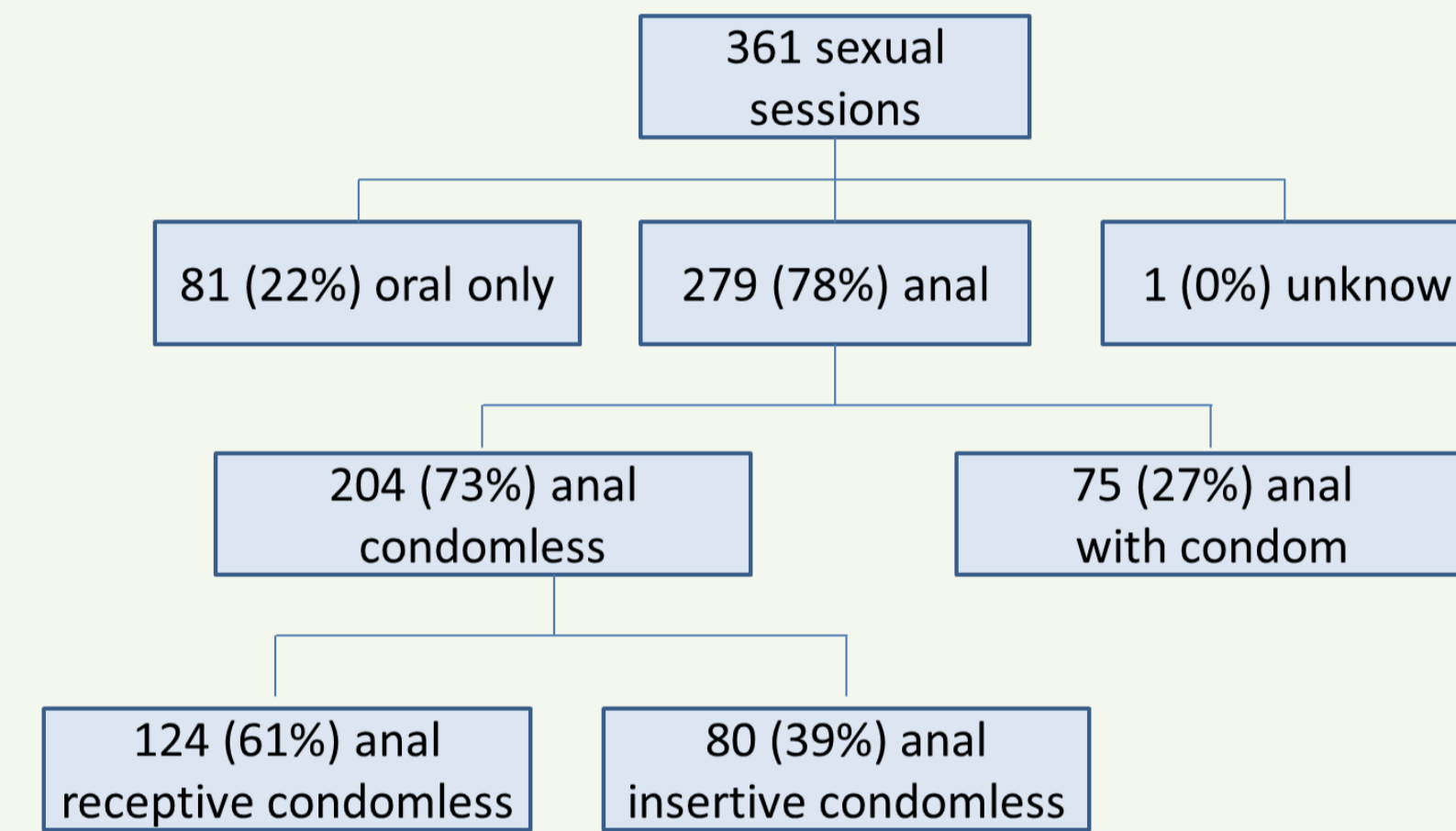
- Full coverage :**
 - 1 or 2 pills taken within 24 hours before sex
 - AND
 - 1 pill taken within 48 hours following sex
- Partial coverage:**
 - 1 or 2 pills taken within 24 hours before sex
 - OR
 - 1 pill taken within 48 hours following sex
- No coverage:**
 - 0 pill taken within 24 hours before sex
 - AND
 - 0 pill taken within 48 hours following sex

Results

54 participants were enrolled

- Median of age : 41 years (IQR [34-46])
- Median of follow-up: 62 days (IQR [56-63])
- 361 sexual sessions were reported.

Fig.2 : Flow-chart of sexual sessions



Tab1: Sexual sessions per month and bottle openings per week

Population (N)		Median [IQR]	Min-Max
All (N=54)	Sexual sessions/month	3.7 [2.1-8.0]	0-15
	Bottle opening/week	3.3 [2.0-4.6]	0.1-6.7
Intermittent (N = 42)	Sexual sessions/month	2.5 [2.8-6.2]	0-12.5
	Bottle opening/week	2.7 [0.9-3.7]	0.1-4.7
Daily (N=12)	Sexual sessions/month	7.7 [4.9-9.3]	0-15
	Bottle opening/week	5.8 [5.6-6.2]	5.2-6.7

There was a strong correlation ($r=-0.92$) between the number of bottle openings and pills count.

Fig.3: Linear regression between number of pills returned and number of bottle openings

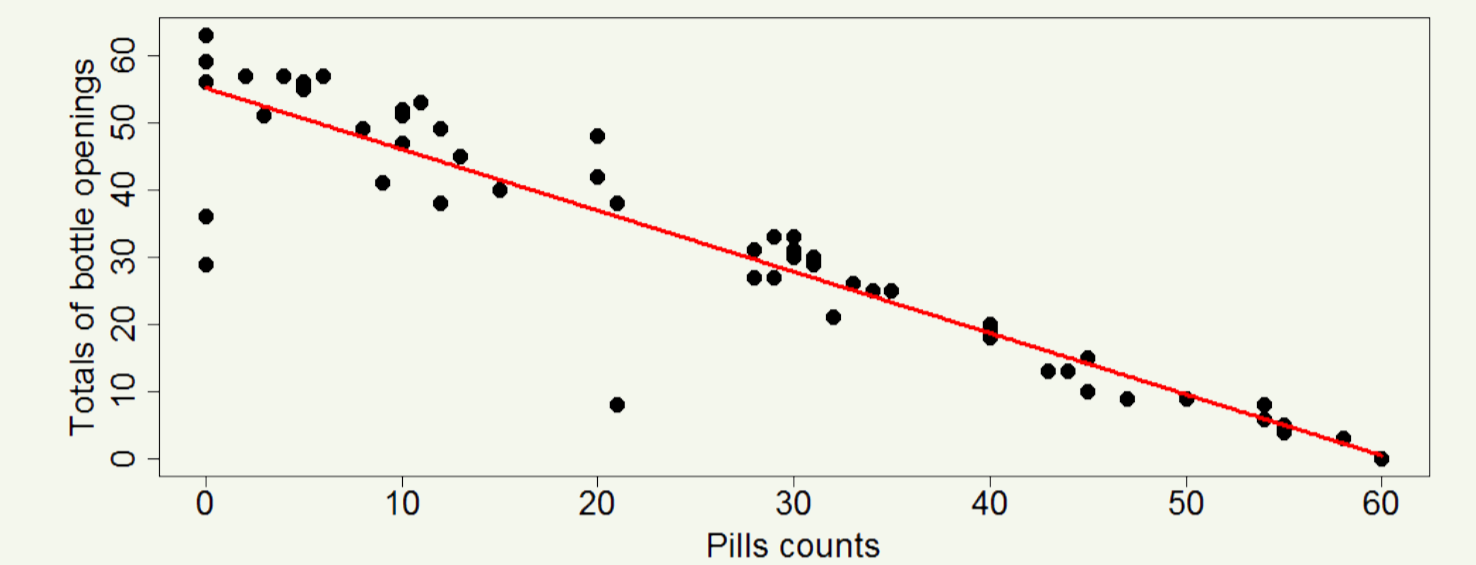
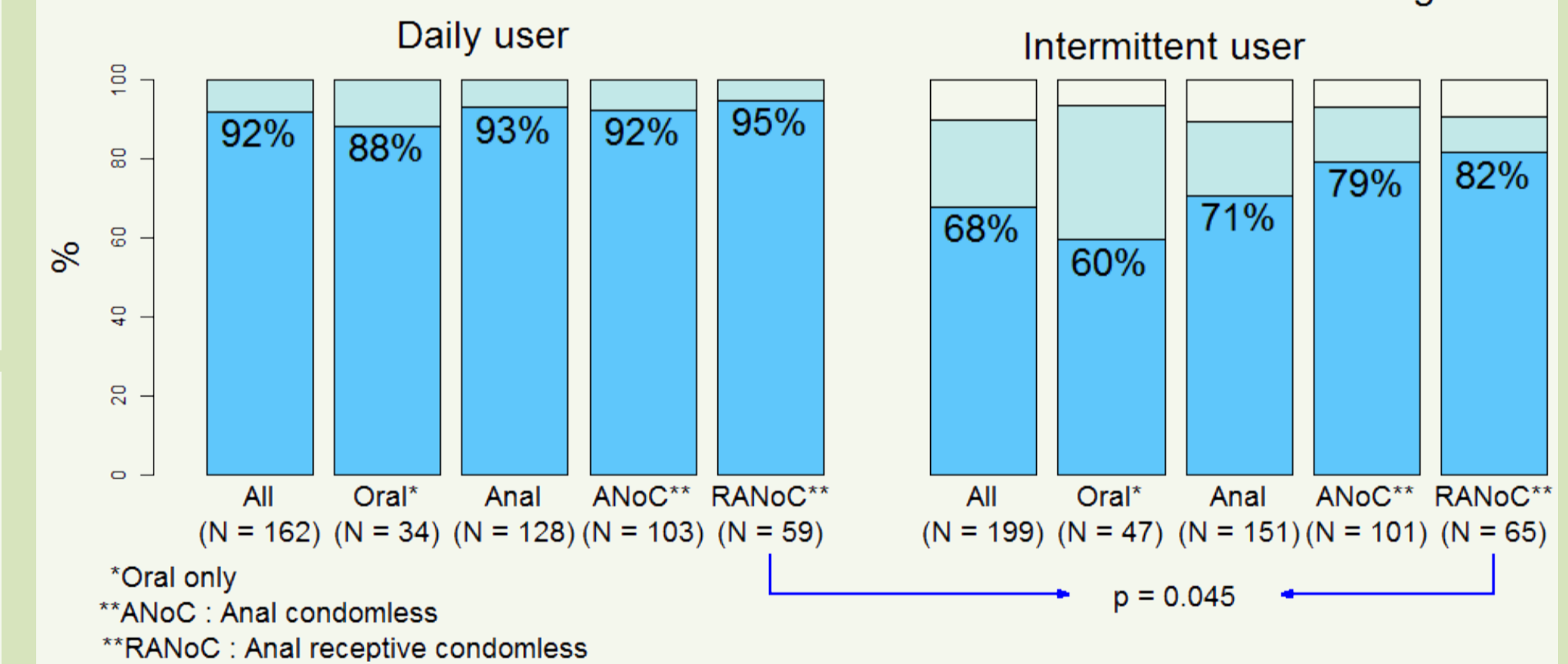


Fig.4 : Coverage of sexual sessions



Conclusion

PrEP coverage of sexual sessions was high, both with daily and intermittent PrEP, 95% and 82% respectively for anal receptive condomless.

In MSM using intermittent PrEP, coverage of sexual sessions increased with at-risk practices and was highest in case of condomless receptive anal sex.

Acknowledgments

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