

Background

Post-exposure prophylaxis (PEP) has been used to decrease risk of HIV transmission after risk exposure and regimen completion is worldwide recommended for 28 days. The choice of antiretroviral regimen should maximize uptake and completion rates.

Since October 2016, French guidelines recommended tenofovirDF/emtricitabine/rilpivirine (TDF/FTC/RPV) as first choice of PEP. Limited data are available on tenofovirDF/emtricitabine/rilpivirine tolerability in PEP

We present interim results of a an ongoing study of PEP with this combination.

Inclusion/Non-inclusion

Inclusion criteria

- Subject seeking care in one of the 4 French centers of « Pays de la Loire » area (CHU Nantes, CHD La Roche sur Yon, CH Le Mans, CH Saint Nazaire) after a sexual or non-sexual HIV exposure
- Adult over 18 years old
- Oral informed consent
- Indication of post-exposure prophylaxis according to the French guidelines (Oct 2016 version)
- HIV-uninfected subjects

Non-inclusion criteria

- Patient not willing or refusing to participate
- Patient <18 years old
- Any medication contraindicated with TDF/FTC/RPV

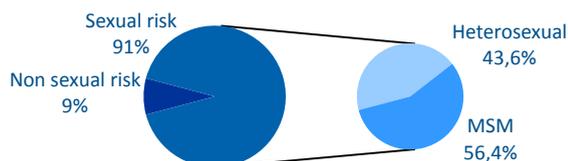
Results

Baseline characteristics of the 129 patients enrolled (130 PEP) from March 21 to dec 31, 2016

	Total N=129	Non sexual risk N=12 (occupational n=7 Non occupational n=5)		Sexual risk N=117	Type of sexual exposure	
					Heterosex. N=51	MSM N=66
Male, n (%)	97 (75.2)	4 (33.3)		93 (79.5)	27 (52.9)	66 (100)
Age, years, median (IQR)	29 (25-38)	32.5 (26-43)		29 (25-38)	29 (24-34)	29 (26-40)
Born in France, n (%)	107 (82.9)	10 (83.3)		97 (82.9)	38 (74.5)	59 (89.4)
High level education, n (%)	71/100 (71)	7/10 (70)		64/90 (71.1)	27/41 (65.9)	37/49 (75.5)
Currently working, n (%)	67/103 (65)	8/12 (66.7)		59/91 (64.8)	25/41 (61)	34/50 (68)
Known « Source » HIV+*, n (%)	22 (17)	5 (41.7)		17 (14.5)	3 (5.9)	14 (21.2)
Condomless exposure, n (%)	-	-		59 (50.9)	23 (46)	36 (54.6)
TPHA-VDRL negative, n (%)	91/105 (86.7)	2/2 (100)		89/103 (86.4)	43/45 (95.6)	46/58 (79.3)
HBV serology negative**, n (%)	32/98 (33.3)	2/6 (33.3)		30/90 (33.3)	16/44 (36.4)	14/46 (30.4)
HCV serology negative, n (%)	110/110 (100)	7/7 (100)		103/103 (100)	47/47 (100)	56/56 (100)

*HIV RNA_≥50 c/ml 3/22 (13.6%), viral load<50 c/ml 4/22 (18.1%), HIV RNA unknown 15/22 (68.2%), ** HBs Ag, neg + HBs Ab neg + HBe Ab neg. C

Types of risk exposure



Situation of the subjects at W4

	n	%
Completed the 28-days course of RPV/TDF/FTC	113	87.6
Lost to follow-up †	12	9.7
Prematurely stopped the treatment :	8	6.4
- HIV negative source patient [#]	4	50
- Patient's decision at D1 (sexual exposure)	1	12.5
- Adverse events leading to discontinuation:	3	37.5
- Asthenia*	1	33.3
- GI disturbances **	2	66.7

[#]sexual n= 8, non sexual n=4, ^{*}sexual n= 1, non sexual n=3, ^{*} at D25

^{**} at D3: abdominal pain, nausea and vomiting, and at D25: nausea and vomiting

Tolerability of TDF/FTC/RPV in the 117 subjects with phone contact at W4

	%
Subjects with at least one AE	68.4
Adverse events >5%	
Asthenia	19.5
grade 1-2	94.7
grade 3	5.2
Nausea	12.3
grade 1-2	100
grade 3	0
Diarrhea	11.8
grade 1-2	97
grade 3	3
Abdominal pain	10.8
grade 1-2	95.2
grade 3	4.8
Insomnia	6.2
grade 1-2	100
grade 3	0
Headache	5.6
grade 1-2	100
grade 3	0
Dizziness	5.1
grade 1-2	100
grade 3	0

No serious AE (grade 4) occurred

Among the 51 participants with an HIV test at W16, none acquired HIV through W16 of follow-up

Conclusion

- This study is the first one to evaluate TDF/FTC/RPV in HIV Post Exposure Prophylaxis in France.
- In this context of anxiety related to the fear of contamination, adverse events were frequent. However only 3 adverse events led to premature discontinuation of PEP.
- Completion rate was high with 87.6% of subjects completing the 28-days course of TDF/FTC/RPV.
- Our preliminary results validate the experts' recommendation of TDF/FTC/RPV in PEP in France.