

Assisted Reproductive Techniques for HIV seropositive men

M. PARTISANI¹, J. OHL², M.P. SCMITT³, C. WITTEMER², C. CRANZ², C. RONGIERES², J.M. LANG¹

1: CISH - Hôpitaux Universitaires de Strasbourg - France

2: ART Center - CMCO-SIHCUS - Strasbourg

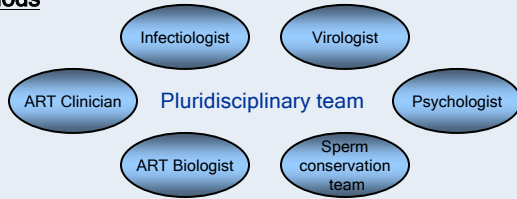
3: Institut de Virologie - Strasbourg

maria-partisani@chru-strasbourg.fr

Introduction

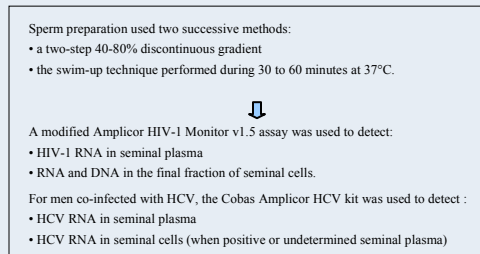
French law allows Assisted Reproductive Techniques (ART) for Human Immunodeficiency Virus (HIV) infected patients. ART are proposed to avoid the contamination of the female partner and the offspring as well as for the treatment of an associated infertility. We report here 4 years experience of pluridisciplinary care of infected men.

Methods



Inclusion criteria are reviewed by the pluridisciplinary team:

- couple stable practising safe sex
- CD4 > 200/mm³
- stable viral load (no increase > 0.5 log on 2 successive samples during the 4 months before treatment began)
- infection by an amplifiable strain of HIV1
- adequate sperm concentration in semen
- specific written consent form obtained



Criteria for semen validation:

- HIV-1 viral load in seminal plasma < 10 000 copies/ml
- HIV-1 RNA and DNA negative in final fraction of seminal cells
- HCV RNA negative in seminal plasma or in seminal cells when co-infection



ART in viral risk area geographically separated from the general laboratory

Population

Requests: 125 couples

Ineligible couples: 10

- VIH-2: 2
- no immuno-virologic stability : 2
- very poor sperm : 6

In progress: 35

Accepted couples: 80

Men:	Median age (years):	36 [24-43]
	•HVC co-infection:	18
	•HBV co-infection:	2
	•antiretroviral therapy:	72 (90 %)
	•median CD4/mm ³ :	542 [211-1374]
	•Viral Load < 50copies/ml:	51 (63.7%)
	•Viral Load > 50 copies/ml:	29 (36.3%) with median viral load 1 659 copies/ml [129-139 880]
Women:	Median age (years) :	32 [19-44]
	•median FSH (IU/L):	6.7 [0.1-18.7]
	•HIV infected:	6 (inclusion criteria respected for them too - see Poster n°813 - Abstract T-102)

ARN in seminal plasma: 109

- >10 000 copies/ml: 2
- undetermined: 5

ARN in final fraction: 102

- positive: 3
- undetermined: 4

DNA in final fraction: 95

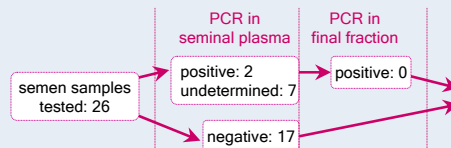
- positive: 1

HIV results in semen

Validation of semen for HIV remains necessary

eligible: 94 (87.2%)

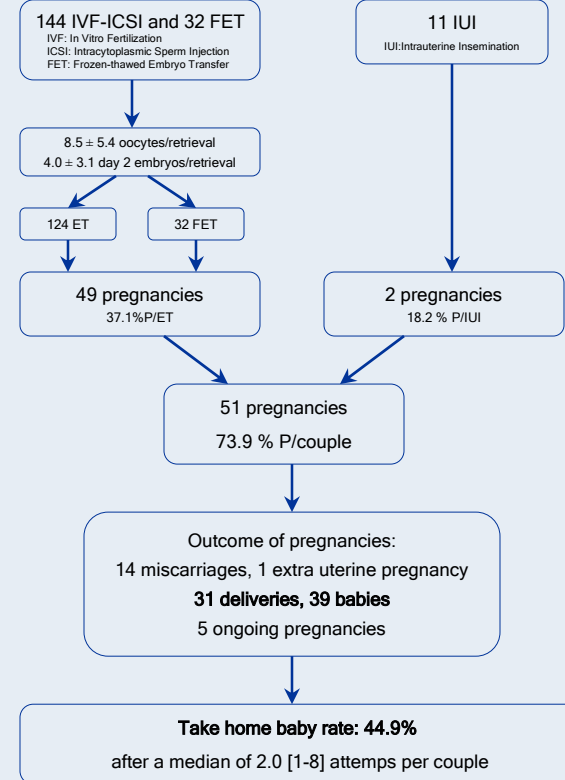
HCV results in semen



Is validation of semen for HCV needless?

Results

ART attempts already performed: 187 (69 couples)



No seroconversion of the female partner

Conclusion

Our results show that assisted reproductive techniques are feasible, safe and very efficient for HIV seropositive men. ART, especially ICSI, can be proposed to seropositive couples to avoid contamination of the female partner and the offspring and also to treat a possible associated infertility.