



# Can women accurately assess the outcome of medical abortion based on self-assessment and low sensitivity urine pregnancy test?

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## Context

- > MToP in France: about 100 000/year
- Usual technique:
  - Until 63 days of gestation
  - Mifepristone 36-48h → Misoprostol
  - Hospitalization after 43 days of gestation
  - Post-abortion visit: D14-21
- Complications:
  - Pelvic pain
  - Ongoing pregnancies (1%)
  - Incomplete abortions (5%)
  - Hémorrhage (1%, transfusion: 0,1%)
  - Death (extremely rare: <1/100 000)</li>

## Objectives



Primary:

self-performed questionnaire + LSUP test

VS

Clinical examination + blood BhCG test +/- ultrasonography



Secondary:

Analyzing the concordance between qualitative results from the LSUP test and the blood human Chorionic Gonadotropin



Description of non follow-up's patients



Introduction Materials and methods

Results

Discussion

# Study design and Flow chart

- Prospective cohort
- At Rennes University Hospital
- Women who came for their postabortion visit after MToP
- Between March and August 2017

273 patients requesting medical abortion 67 (24,5%) didn't come to post abortion visit 3 (1,1 %) emergency surgical aspiration 206 patients (75,5%) came to follow-up visit 2 hemorrhage 1 pelvic pain 73 (26,7%) excluded 1000 mIU/mI 67 did not want participate 4: < 18 years old 133 patients made the LSUP 2 non exploitable test and self-questionnaire questionnaire

Materials and methods

checkToP° is a rapid test which detects

urine is 1 000 mIU/mL or more.

the presence of hCG in urine if the hormone

Results

Discussion

# Women's characteristics

Women's characteristics	n=133	
Age (years): mean (+/- SD)	30.7 (+/- 7)	
BMI	23.2 (5.1)	
Smoking	62 (46.6%)	
Education level		
(French secondary school diploma)		
No obtained	31 (23.3%)	
Obtained	33 (24.8%)	
Two-year university degree	26 (19.5%)	
Three-year university degree	25 (18.8%)	
Five-year university degree	16 (12%)	
Eight-year university degree	2 (1.5%)	
Previous pregnancy	2 (2.0)	
Gestity	3 [1-8]	
Parity	1 [0-5]	
Prior abortion	0 [0-3]	
At least one prior abortion	43 (32.3%)	
Term of abortion (day)	42 [35-55]	
Interval between:	42 [33-33]	
	1 [0 14]	
Pregnancy dating and MToP (day)	1 [0-14]	
MToP and follow-up visit (day)	21 [14-31]	

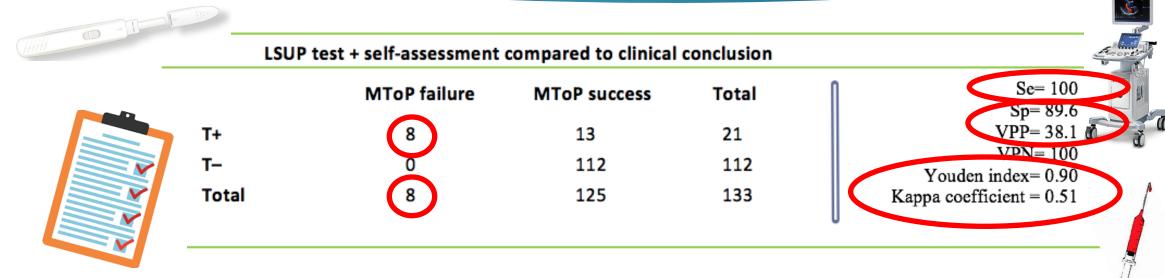
Results expressed as median (min-max), mean (+/- SD) or sample size (%)

Materials and methods

Results

Discussion

# Primary objective (1)



8 failures

2 ongoing pregnancies

6 retained products of conception

3 surgical aspiration

3 new oral administration of Misoprostol

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Materials and methods

Results

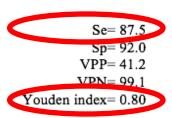
Discussion

# Primary objective (2)

#### LSUP test compared to clinical conclusion



	MToP failure	MToP success	Total
LSUP t +	7	10	17
LSUP t –	1	115	116
Total	8	125	133







#### Self-assessment compared to clinical conclusion

	MToP failure	MToP success	Total
Self-assessment +	5	7	12
Self-assessment –	3	118	121
Total	8	125	133

Se= 62.5 Sp= 94.4 VPP= 41.7 VPN= 97.5 Youden index= 0.57



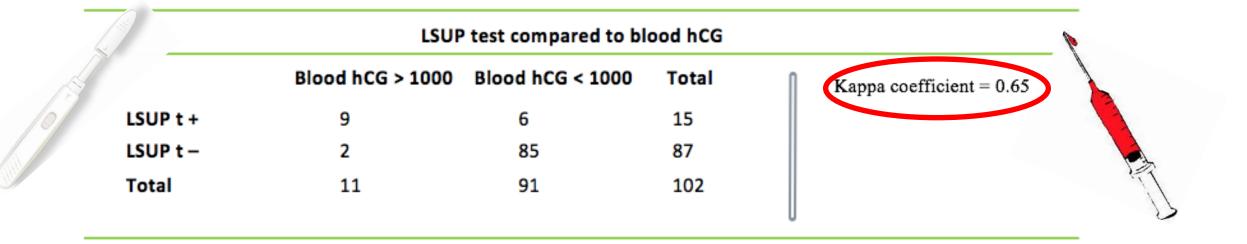
n Materials e methods

Results

Discussion

### Secondary objective:

# concordance between qualitative results from the LSUP test and the blood BhCG test



Materials and methods

Results

Discussion

## Secondary objective: Non follow-up's patients

Women's characteristics	Returners n=133	No returners n=67	р
Age (years)	30.7 (+/- 7)	27 (+/-6.9)	<0.001
moking ducation level French secondary school diploma)	62 (46.6%)	38 (56.7%)	0.20
No obtained	31 (23.3%)	25 (37.3%)	0.04
Obtained Two-year university degree	33 (24.8%) 20 (19.5%)	25 (37.3%)	0.09 0.58
Three-year university degree	25 (18.8%)	5 (7.5%)	0.04
Five-year university degree Eight-year university degree	16 (12%) 2 (1.5%)	1 (1.5%) <del>3 (0%)</del>	<b>0.01</b> 0.50
Previous pregnancy Gestity	3 [1-8]	3 [1-12]	0.28
Parity Prior abortion	1 [0-5] 0 [0-3]	1 (0-7) 0 [0-5]	0.01

Results expressed as median (min-max), mean (+/- SD) or sample size (%)

Materials and methods

# Advantages and disadvantages of using a simplified diagnostic test

- Good sensitivity:
  - False-positive: human error, test done too early
  - False-negative: « Hook » effect, very dilute urine
- Less secondary surgical aspiration
- Lower cost:
  - For the patients: transportation, day off, babysitting...
  - For the hospital: CheckToP  $^{\oplus}$ = 10-15 euros = 11-17 \$ = 9-13 £
- Respecting patients autonomy
- Better compliance

#### Michie, L. and ST. Cameron

Simplified follow-up after early medical abortion: 12-month experience of a telephone call and self-performed low-sensitivity urine pregnancy test

Contraception 2014

- > Ignorance of a failure:
  - Unwanted ongoing pregnancy
  - Teratogenic effects of MToP
- Ignorance of an ectopic pregnancy:
  - Screening before MToP
  - Patient information
- More unscheduled visits to the abortion/ emergency service :
  - Patient information
  - All women having an abortion should be able to return for routine follow-up if they so wish.

Materials and methods

Results

Discussion

- > A single visit with:
  - Pregnancy dating and screening for complicated pregnancies,
  - Counseling on pregnancy termination,
  - Administration of mifepristone with a supply of misoprostol for home use,
  - Instructions on when and how to conduct a pregnancy test,
  - Advice and contact numbers
  - Provision of supplies of effective ongoing contraception

# THANK YOU!