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ingle versus double intrauterine insemination (RB) in stimulated cycl (P Cartieres, RJ Heinemen, BJ Colten (ser. 2013) Intern	hen for muldheritie cougies

PICO-question

- Primair subfertiel paar
- Man 33 jaar; vrouw 34 jaar
- 26 maanden bezig
- OFO normaal (VCM 42 milj; PCT normaal)
- Diagnose: subfertiliteit e.c.i.
- Behandelplan: IUI met milde stimulatie
- 10 minuten blijven liggen of opstaan

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FERTILITY AND STERILITY® FOL. 74, NO. 3, SEPTEMBER 2000 Copylete G2000 American Society for Reproductive Medicine Published by Disavier Science Inc. Berland are sufficient to ILD. American Society vier Science Inc. re paper in U.S.A.

A randomized study of the effect of 10 minutes of bed rest after intrauterine insemination

Ahmed Saleh, F.R.C.S.C., Seang Lin Tan, M.R.C.O.G., Marinko M. Biljan, M.R.C.O.G., and Togas Tulandi, F.R.C.S.C. Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, McGill University. Montreal, Quebec, Canada

Objective: To evaluate the effects of 10 minutes of bed rest after intrauterine insemination (IUI) on the

Objective: To evaluate the effects of 10 minutes of bed rest after immattence insemination (UU) on the pregnarcy rate. Design: Prospective randomized undy. Setting: University teaching hospital Patient(s): One hundred states couples with unexplained infertility. Patient(s): One hundred states couples with merchanic regimes from the procedure (group H). Main Outcome Neuronage (Couples after the procedure (group H). Main Outcome Neuronage (Couples after the procedure (group H). Main Outcome Neuronage (Couples after the procedure (group H). Main Outcome Neuronage (Couples after the procedure (group H). Main Outcome Neuronage (Couples) the pregnancy rate per couple (s00 cycles) and group II consisted of 55 couples (102 cycles). The pregnancy rate per coyle in group 1 (4 44) was also beref than in group I (1345). White of the state marks, the countingence probability of pregnancy rate. We recommend that mandatory bed rest fiel 10 minutes after UU as a positive effect on the pregnancy rate. We recommend that mandatory bed rest fiel 10 minutes after UU should be adopted into a standard practice. (Fernil Steril' 2000; 1320-11. (2000 by Amaricas Stocycle (R) Reproductive Medicine). Key Worde: Intransenine intermination, unexplained infertility, bed rest, pregnancy rate

Introduction

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Introduction Comparison between patients mobilized termediately after KII (group 6 and those who remeined in sugare position for 10 minutes after the procedure (group 16. Group II (Support Re IV minutes) (6 = 31) Group 1 Sumerkare auchilatasani (s = 40) $\begin{array}{l} \displaystyle Apr (r) \\ \displaystyle Transition of interesting paragraphic process (Constraints) (Cons$ 10.8 ± 8.3 21 × ± 4 36 (87) 90 2.3 ± 0.8 12 ± 0.3 7.50 ± 1.2 312.0 ± 3.0 21.0 ± 7.0 40 (73) 130 21.1 ± 0.0 12 ± 0.4 324 ± 1.3 404 1 104 343 + 184 133⁰ 39.0⁰ 7.50 A 1.2 61 # 7 38.8 21 6 7 24.1 4.4 am enter for reproductive medicine





Objective

 Assess the effect of 15 minutes of immobilisation versus immediate mobilisation after Intra Uterine Insemination

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Study design

- · Inclusion criteria:
 - All patients with an indication for IUI
 - With fresh or cryo-preserved sperm (donor or husband's)
 - With or without controlled ovarian hyperstimulation
 - Anovulatory women: after failed ovulation induction
 - At least one patent tube
 - At least 18 years of age

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Study design

- · All couples underwent basal fertility work up
 - Diagnosis male factor subfertility: TMC < 10 *10⁶/mL
 - Cervical factor: no *progressive* spermatozoa in (at least one well-timed) PCT (TMC >10 *10⁶/ml)
 - Unexplained subfertility: PCT positive, progressive and TMC >10 $^{*}10^{6}\mbox{/ml}$

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Study design

- · Informed consent obtained
- Randomisation by computer
 - Before the first insemination
 - Stratification: female age and centre
- · Parallel design
- Three consecutive cycles in supine position after IUI or three cycles immediate mobilisation

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Study design

- Procedure IUI:
 - COH with:
 - Clomiphenecitrate
 r/uFSH
 - 1/urs
 - No COH
- Timing of ovulation with 5000 IU HCG
- Insemination of 0,3-1,0 mL of processed spermatozoa
- Insemination in lithotomy position with Trendelenburg tilt

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Validity

- Randomisation
- Blinding of allocation (concealment)
- Blindering opf endpoint
- Patienten / docters / observers
- Follow-up
- Intention to treat analysis

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Randomisation

- Envelopes
- Computers
- Webbased
- Telephone
- Independent party
- Concealment

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Follow up

•3 cycles of IUI (max. of 4 months) or •ongoing pregnancy (12 weeks gestation)



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Outcome measures

- Primary outcome measure
 - Ongoing pregnancy rate per couple
- Secondary outcome measures
 - Live birth rate
 - Pregnancy rate per cycle
 - Multiple pregnancies
 - Miscarriages
 - Ectopic pregnancies
 - Biochemical pregnancies

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Power calculation

- Testing the 0-hypothesis
- · Alpha-error beta-error
- · Equivalence study
- · Lasagna's law

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Power calculation

- Increase of 4% per cycle (= 12% per couple),
- A dropout rate of 10%
- 185 couples per arm (one-sided test, α-error of 0.05, β-error of 0.20).

Analysis

- · Intention to treat principle
- Primary and secondary outcome measures expressed in PR per couple and RR with 95% CI

Logistics

- Research nurses
- Data collection

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Results

Baseline characteristics

Characteristics	15 Minutes of immobilisation (n=199)	Immediate mobilisation (n=192)
Female age ¹ (years)	33.9 ± 3.8	33.3 ± 3.9
Duration of subfertility ¹ (years)	2.7 ± 1.4	2.7 ± 2.5
Primary subfertility	145 (73)	148 (77)
Cause of subfertility		
Unexplained	118 (59)	105 (55)
Cervical Factor	58 (29)	63 (33)
Poor semen quality ²	23 (12)	24(13)
One sided tubal pathology	21 (11)	24 (13)
Anovulation	11 (6)	16 (8)
Jse of COH	118 (60)	124 (65)
Clomiphenecitrate	26 (13)	25 (13)
rFSH	91 (46)	99 (52)
GnRh	1 (<1)	0

Results utcome measures,	intention to treat	analysis		
Outcome measures	15 min. Immobilisation (n=199)	Controls (n=192)	RR (95 % CI)	P-value
Ongoing pregnancy (%)	54 (27)*	34 (18)**	1.5 (1.1-2.2)	0.01
Live birth (%)1	53 (27)	32 (17)	1.6 (1.1-2.4)	0.01
Twin pregnancy ² (%)	3 (6)	1 (3)		
Miscarriages (%)	14 (7)	17(9)		
Ectopic pregnancy (%)	1	0		
Biochemical pregnancy (%)	1	0		

*4 spontaneous pregnancies, 1 after escape IVF ** 5 spontaneous pregnancies *16 couples still pregnant, considered as live birth in analysis *Calculated per ongoing pregnancy

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Conclusions

- Immobilisation after IUI leads to increased ongoing pregnancy rates
- Immobilisation should be incorporated in IUI guidelines

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