





Introduction: paradigm shift?

Improving the patient's experience of IVF/ICSI: a proposal for an ovarian stimulation protocol with GnRH antagonists

- Patients undergoing IVF/ICSI frequently experience substantial treatment burden, risk and psychological distress
- These three related elements contribute to a negative patient experience that can lead to treatment discontinuation
- One approach to minimize these factors is the use of protocols designed to achieve high term, singleton birth rates per IVF treatment started, while improving the patient's welfare



(DeVroey et al Hum Repr 2009)

PERSONAL PROPERTY IN COLUMN TO

Personal background

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PhD 'Stress and IVF'



Overview Invasiveness Survey Stress Dropout Counselling

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Invasiveness

Experiences, behaviour, attitudes and emotions towards fertility treatments (N=355)

Physical and psychological burden

- Ovarian-stimulation treatment: 55% of patients impact upon daily life, while 31% felt that injections limited their everyday activities
- Most frequent questions from patients concerned fertility drug-related side effects, followed by concerns about application
- The study highlights areas in which improved patient education could help to reduce the psychological burden of IVF treatment

Huisman et al. RBM online 2009

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Invasiveness

Stress level across stages of in vitro fertilization in subsequently pregnant and nonpregnant women

- Negative feedback about treatment communicated to patients responding poorly to IVF (nonpregnant group) may have increased
- · Differences between prospective and retrospective stress ratings may reflect women's attempt to cope with the strain of the waiting period

Boivin & Takefman; Fertil Steril 1995



Invasiveness

Medical waiting periods: imminence, emotions and coping

Stimulation stage = positive affect with a less anxiety $\label{eq:waiting_stage} \textit{Waiting stage} = \textit{positive affect and anxiety symptoms}$ ${\it Pregnancy \ test \ onwards} = {\it depression}$

- Significant increase in coping activity between the stimulation and waiting stages
- Waiting for medical test results = demanding
- Healthcare professionals can assist by facilitating coping strategies that better fit the demands of the **waiting period** (IVF) and by offering support once outcomes are known

Boivin et al, Wom Health `10

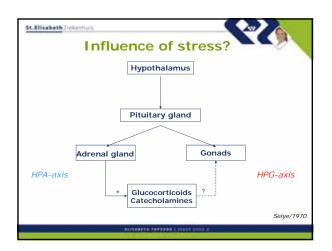


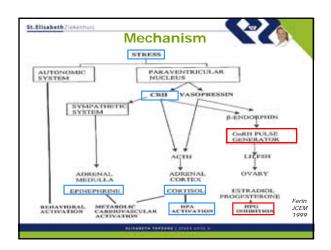






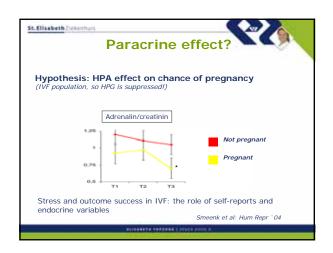


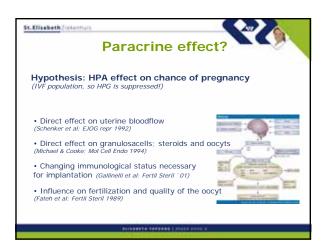














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Clinical consequences doctor`s perspective

Should fertilization treatment start with reducing stress?

- Ample evidence that lower stress levels mean better female and male *natural* fertility
- No conclusive experimental evidence that lower stress levels result in better *fertility treatment outcome*
- First reducing stress may diminish the number of treatment cycles needed, may prepare the couple for an initial failure or even make the more invasive techniques unnecessary

Campagne, Hum Repr 2006

PERSONAL PROPERTY IS NOT THE OWNER.

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Clinical consequences doctor`s perspective

Conclusions

- No evidence to treat *all* fertility patients in order to increase pregnancy results after treatment
- Screening and (online) support of risk groups is feasible (e.g. SCREENIVF: Verhaak et al. Hum Repr `10)
- Patients can be reassured about the overall effect of stress on pregnancy rates after ART treatment

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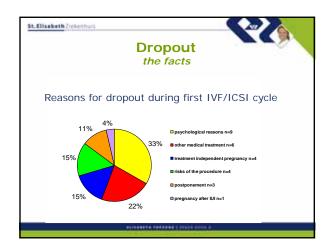
Dropout the facts

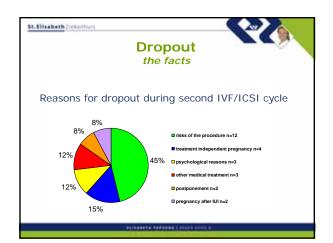
When and why do subfertile couples discontinue their fertility care? A longitudinal cohort study in a secondary care subfertility population. (N=1391)

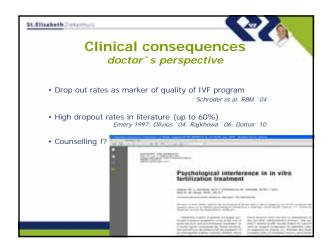
- About half of the couples stopped before any fertility treatment
- One-third stopped after at least one IVF cycle
- Main reasons for withdrawal: emotional distress & poor prognosis
- Suggestion: improve quality of patient care by making care more responsive to the needs and expectations of subfertile couples

Brandes et al. Hum Rep 2009

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Conclusions

- Studies suggest that some patients benefit from psychosocial • Studies Suggest that some permitted interventions to diminish dropout

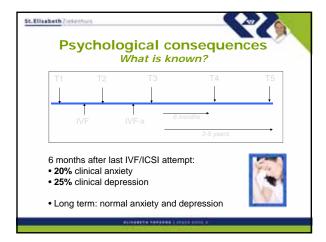
 Cousineau & Domar: Best Practice * 07
- The application of a mild treatment strategy and managing patient's expectations might reduce drop-out rates

- Top-rated suggestions for patient support were:
- 1. written information on how to deal with psychological issues 2. easy and immediate access to a psychologist or social worker

Domar et al. Fertil Steril `10

St. Ellsabeth Zietenhurs Clinical consequences dropout: other side of the coin • Single most important reason for dropout from the waiting list was (spontaneous) pregnancy, most within 3 months Psychological factors such as stress relief after being placed on the waiting list might be operative VanDongen et al. HumRepr` 10

Ps	ycholo	ogical co what is kno	nsequen	ces
T1	T2	T3	T4	T5
				1
	↑ VF	IVF-x	months • 3-5 years	
• T1:	pre treati	ment		
• T2:	after first	cycle		Cons.
• T3:	after last	cycle		(
• T4:	6 months	after last cy	cle	160
• T5:	follow-up	: 3-5 years a	fter last cycle	1 10 11

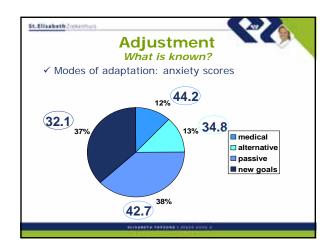


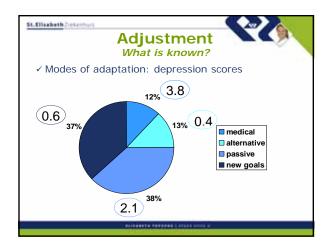
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Conclusions

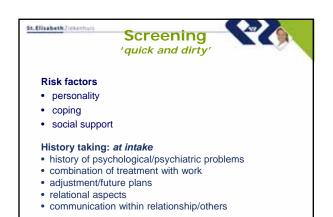
- Majority of patients can handle treatment burden and the outcome of treatment
- Some patients might benefit from psychological interventions to shorten the period of grief
- Fertility team needs to point out the possibilities and screen and refer patients at risk

St. Ellisabeth Zietenhurs Adjustment What is known? Ways to adjust after failed treatment Medical mode pursuing medical options Alternative mode other options Passive mode not active, still wanting New goals abandon desire, move on van Balen & Trimbos-Kemper; J Psy Ob/Gyn 1994





Clinical consequences doctor`s perspective Conclusions • Way of adjustment is a significant predictor of distress after treatment • The fertility team should take this into account during and after treatment and screen for it • Refer for counselling if necessary



Screening
'team effort'

Refuse treatment?

Moral protocol: since 2010 in the Netherlands

Standardized approach to avoid 'shopping'

• reasonable wellbeing of future child!

• gather relevant information
• multidisciplinary assessment
• transparent procedure



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Counselling



What is known?

Who is likely to need counseling?

- \bullet patients who use donated gametes, surrogacy and/or adoption
- · patients who experience great distress
- · patients at risk because of psychological history or profile
- · patients who require a form of genetic counselling

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Counselling





- Review of psychosocial interventions in infertility (N=380)
 Effective reducing negative affect, not interpersonal functioning
 Unlikely to affect pregnancy rates
 Men and women were found to benefit equally
 (Bolvin; Soc Sci Med 2003)

Effectiveness of a psychosocial counselling intervention for

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Counselling

What is known?



Is there too much emphasis on psychosocial counseling for infertile patients?

Emphasis on psychosocial counseling for highly distressed patients in the area of infertility has left the needs of *less* distressed patients neglected and the potential usefulness of alternative methods of intervening with them unexplored

Boivin, J Ass Repr Gen 97



Clinical consequences doctor`s perspective

- Information gathering and analysis
 Help to gather and make sense of all information available
- Implications and decision-making counselling Meaning of information for the individual and highlight consequences

• Support counselling
Give emotional support to patients with distress: focus on resources
patients have in coping and work out new coping strategies

• Therapeutic counselling Often natural progression from support counselling to therapeutic counselling: refer to specialist

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Clinical consequences





- Shape adequate beliefs rather than challenge misconceptions Present the treatment strategy in a positive, collaborative developed plan, rather than last resort
- Foster realistic expectations about treatment
 Many infertile patients are ill-prepared for the time commitment
- Clarify other treatment roles

The infertility counselor should be prepared to educate the patient how psychological treatment will interface with infertility treatment

Belar et al. Psychological Press

St. Elliabeth Zieten New initiatives.. Online psychoeducational support for infertile women: a RCT

- IVF patients show three types of online behaviour Tuil et al. Hum Rep 2008

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