

Lifestyle and infertility

Insights of a nurse

Annie Bolster, nurse practitioner





Lifestyle and infertility, How can we help effectively? Can we improve compliance?

Report of a lifestyle program for infertile obese women

Department Reproductive Medicine UMCG The Netherlands



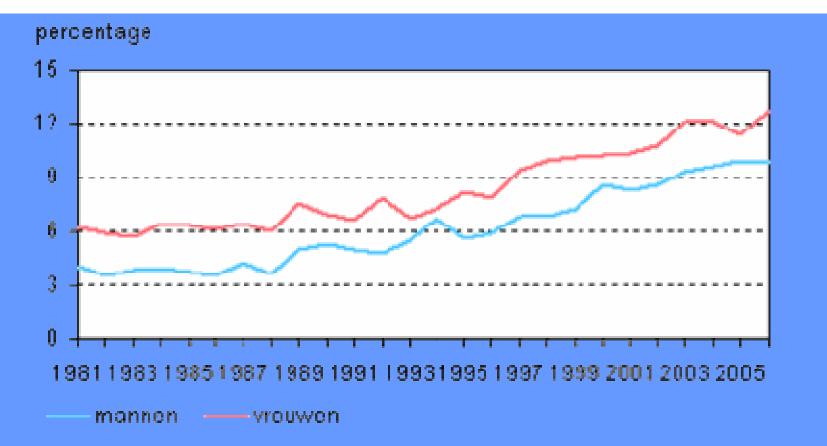
Introduction

Lifestyle intervention: the program Women of Weight and Infertility!

Compliance and Concordance

Conclusion and Challenge

Prevalence of Obesity



Haslam DH et al., Lancet 2005; 366: 1197

Obesity and infertility

Menstrual disturbances

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- Delayed time to conception
- Poor response to ovulation induction
- Decreased pregnancy rates after ART
- Increased miscarriage rate
- Lower life birth rates



Literature weight loss and infertility

Weight loss in obese infertile women results in improvement in reproductive outcome for all forms of fertility treatment.

- Clark, A.M.(1998). Hum. Reprod. 13, 1502-1505
- Norman, R.J. (2004). Hum.Rep. 10, 267-280

Project Lifestyle intervention

Health education

- Insight
- Tools
- Enhance intrinsic motivation, responsebility

Special treatment Psychologist

Role nurse practitioner

- Inclusion, counseling and contracting patients
- Implementation of the lifestyle program
- Offering individual guidance
- Cooperates in research program on obesity and infertility
- Coordinates the activities of the patients

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Lifestyle intervention

Patient centred care Interventions aimed at:

- Eating pattern
- Increasing physical activity
- Behavioural change

NHLBI Obesity education Initiative, Expert Panel (1998). Identification, Evaluation and Treatment of overweight and Obesity in Adults:

the evidence Report. NIH pub. No 98- 4083. Evidence Cat. A



Lifestyle intervention: the program

Interventions aimed at:

- Eating pattern
- Increasing physical activity
- Behavioural change





- Healthy eating pattern
- Low calories: 1200 Kcal per day
- Patients learn to handle calorie tables





Lifestyle intervention: the program

Interventions aimed at:
Eating pattern
Increasing physical activity
Behavioural change



Physical activity

- 10.000 steps per day (step counter)
- 3 x per week moderate intensive activity in an increasing schedule

Kempker, H.C.H. Consensus over de Nederlandse Norm voor gezond bewegen, TSG 2000, 180-183





Lifestyle intervention: the program

Interventions aimed at:
Eating pattern
Increasing physical activity
Behavioural change



Behavioural change

Counseling to promote partnership and improve self-efficacy

Make patients aware of the problem and equipe them with tools to take own responsibility for good health

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umcg Consultation lifestyle program

Clarify motivation Stimulate motivation Enable change

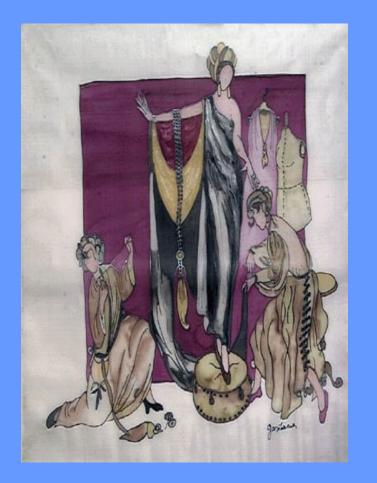
- Help setting realistic goals
- specific goals prevent vague goals
- Self efficacy; regular control
 - Calory counter
 - Use pedometer
 - Weight control (self and counseler)
- Make realistic and specific agreements

Result: tailored care



to increase intrinsic motivation and responsibility for a healthy lifestyle

- Individual dietary advice
- Personal activityplan
- Personal guidance and support: <u>concordance and</u> <u>motivational</u> <u>counseling</u>





Results WOW!

60 patients	Completed program (38= 54%) (max 12 month)	Drop-out (22= 36%)	Mann- Whitney test
Weight loss Mean 4.2 ±5.8	6.1 ±6.4	1.3 ± 2.9	P<0.002
Spontaneous pregnancies	19 (56%) •15 anovulatory (35%) •4 ovulatory (24%)	3 (14%)	P<0.002



Drop out

Patients	22	Reason	%
Personnel	8	No motivation (8)	36%
Social/environment	9	Personnel circumstances (6) Distance (3)	40%
Intervention	5	Bariatric surgery (3) Own diet (1) No help necessary (1)	22%



Compliance and Concordance

Is compliance easy? Can we reduce drop outs by better interventions to enhance compliance?

Recent Cochrane analysis

- Most "compliance enhancing" interventions have no effect on compliance, and even less on health results
- Even the most effective interventions have modest effect.
- Effective interventions are very complex and therefore hard to interpret
- Short term results are easier to get, than long term results

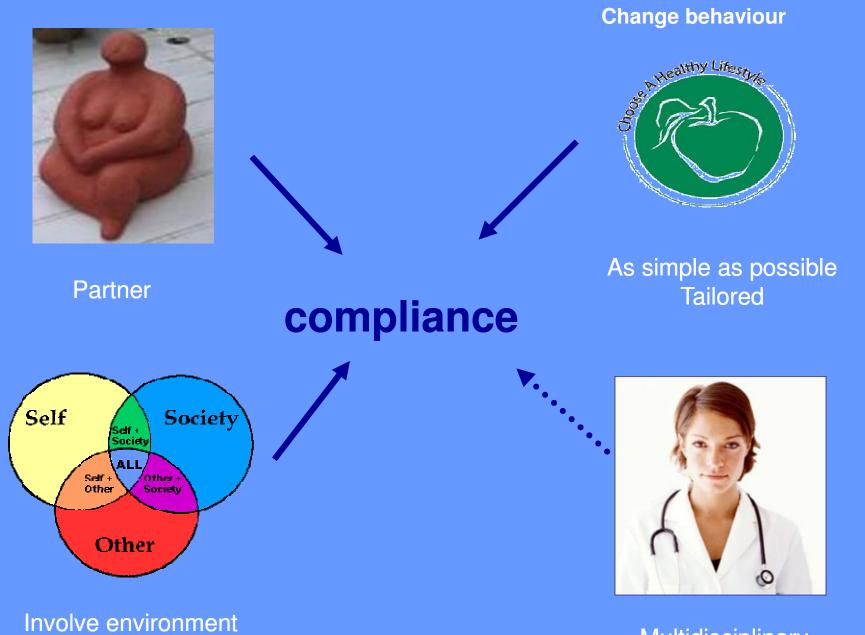
1^e nationale therapietrouw conferentie 2007 Haynes et al. Interventions for enhencing medication adherence Systematic Review Cochrane 2008

Conclusion Conference Compliance

- No clearly defined intervention for better compliance
- Need for simple multidisciplinairy approaches
- Absolute necessity to involve patients
- Compliance not only a patient's problem, but also a medical problem
- Important role for communication to enhance compliance
- More research is needed

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1^e nationale therapietrouw conferentie 2007 Van der Meulen N. Interventions to improve recall of medical information in cancer patients: a systematic review of the literatur



Multidisciplinary

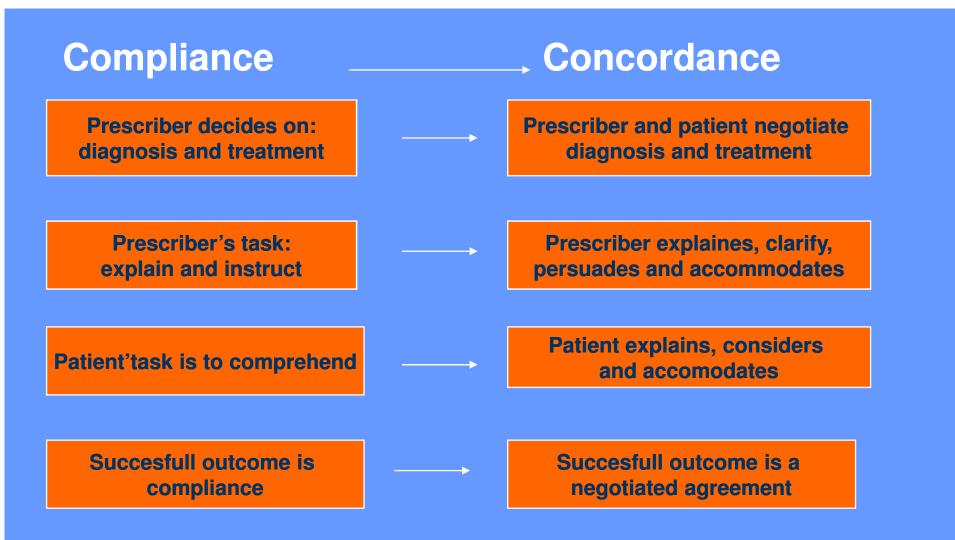


Concordance

Proces of mutial decisionmaking, in which the patient is accepted as a partner with his own expertise and beliefs – The consultation can be non-concordant – Non compliant: does not follow the instructions

2^e nationale therapietrouw conferentie 2008 H. de gier, presentatie Concordancemodel

From compliance to concordance



Medicine partnership

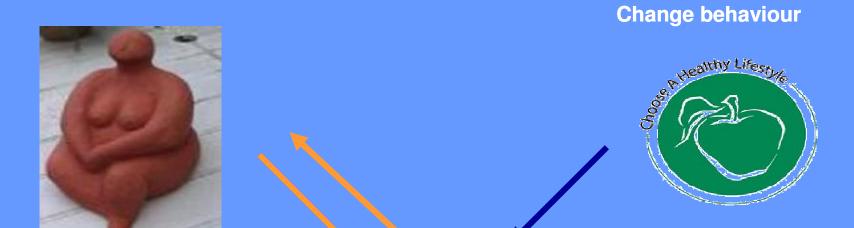


Why concordance?

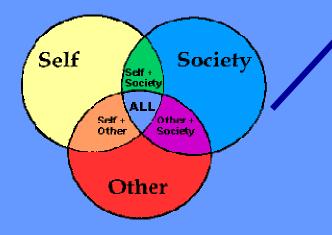
- Relation between the effort of the prescriber and outcome for patient:
 - Improvement of patient centered orientation during consultation (more empathy, more support, better chance that patient's problems are discussed)
 - Patient's satisfaction increases which leads to increased adherence and health.

Lewin SA.

Interventions for providers to promote a patient-centred approach in clinical consultations (cochrane review)



ccompliancece

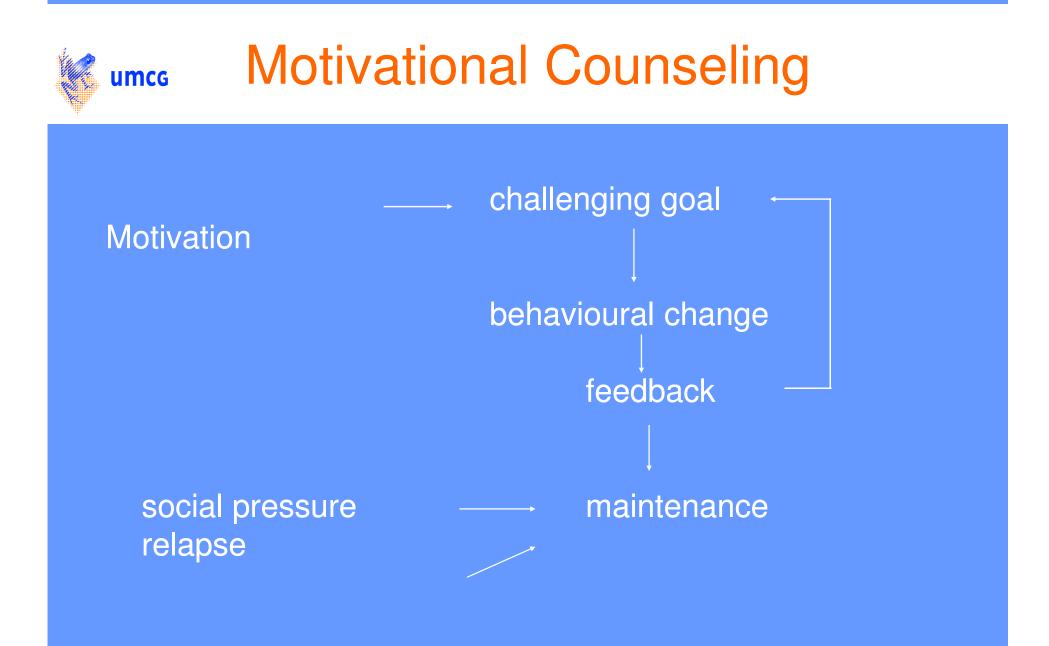






Partnership is pivotal for concordance

Motivational counseling is a tool to accomplish concordance and to realise tailored interventions





Four core counseling principles

- Express empathy
- Develop a discrepancy
- "Roll with resistance"
- Support "Self-efficacy"

Motivational interviewing An evidence-based approach to counseling helps patients follow treatment recommendations Eric Levensky

Skills for motivational counseling

- Reflective listening
- Asking open questions
- Directly affirming and supporting the patient
- Make summary statements

Motivational interviewing An evidence-based approach to counseling helps patients follow treatment recommendations Eric Levensky



Conclusion

Can we help effectively?

- The lifestyle program helps patients to loose weight and increases their chances on pregnancy
- Motivational counseling is an important part of the program, in which the patient is a accepted as a partner
- Motivational counseling is an effective tool to achieve concordance

Can we improve compliance?

 Concordance improves mutual understanding and cooperation and therefore can contribute to better compliance



LIFE*style*

Costs and effects of a structured lifestyle program in subfertile couples with overweight or obesity: prevention of unnecessary treatment and improvement of reproductive outcome

> ZonMW Preventie deelprogramma 2 Effectiviteits- en doelmatigheidsonderzoek Start voorbereidingen maart 2009



LIFE*style*

- In view of this lack of evidence and strong practice variation we will conduct a randomized clinical trial, in which we compare the costs and effects of a six months structured lifestyle program, aimed at weight loss, to "usual care"
- The intervention aims to prevent:
- 1. Unnecessary fertility treatment and complications associated with fertility treatment
- 2. Obesity-related pregnancy complications, thus improving pregnancy chances and perinatal outcome