

## **"The beast of burden": how to manage the burden of fertility treatment** Special Interest Group Psychology and Counselling

1 July 2012 Istanbul, Turkey



# "The beast of burden": how to manage the burden of fertility treatment

Istanbul, Turkey 1 July 2012

Organised by the Special Interest Group Psychology and Counselling

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## **Course coordinators**

Chris Verhaak (The Netherlands) and Uschi Van den Broeck (Belgium)

## **Course description**

The burden of fertility treatment multidimensional and contributes to treatment outcome and to satisfaction with care. In this course, burden of treatment will be addressed from different perspectives. In addition, tools to alleviate burden will be offered. Actual knowledge from research will be translated into practical recommendations.

## **Target audience**

· Medical doctors

· Nurses and paramedical staff involved in patient care

· Counsellors and other professionals involved in psychosocial care

## Scientific programme

Chairmen : Chris Verhaak (The Netherlands) & Uschi van den Broeck (Belgium)

| 09.00 - 09.30                  | Treatment discontinuation and treatment burden: a balancing act – Sofia Gameiro (Portugal)   |
|--------------------------------|--|
| 09.30 - 10.00                  | Different treatment protocols, different burden of treatment? – <b>Cora de Klerk</b> (The Netherlands)   |
| 10.00 - 10.30                  | Burden of treatment in Turkey – Aygul Akyuz (Turkey)   |
| 10.30 - 11.00                  | Coffee break   |
| 11.00 - 11.30                  | The use of internet and other online resources and its impact on the burden of treatment - <b>Neil Coulson (United Kingdom)</b>                  |
| 11.30 - 12.00                  | The burden of unsuccessful treatment and stopping treatment: the long and winding road – Uschi van den Broeck (Belgium)                          |
| 12.00 - 12.30                  | Burden of treatment and your sex life – Hester Pastoor (The Netherlands)   |
| 12.30 - 13.30                  | Lunch  |
| 13.30 - 14.15                  | What's in a word? The impact of patient and healthcare provider communication on the burden of treatment – <b>Judith Prins (The Netherlands)</b> |
| 14.15 - 15.00                  | Quality of Care and burden of treatment – Willianne Nelen (The Netherlands)  |
| 15.00 - 15.30                  | Coffee Break   |
| 15.30 - 17.00<br>17.00 - 17.30 | Round table discussion: how to diminish burden of treatment in daily practice?<br>Special Interest Group Business Meeting                        |





#### Summary

- 1. What is discontinuation and why should we talk about compliance (instead)?
- 2. How does treatment burden affect compliance?
- 3. When is burden too much burden?
- 4. How can psychosocial support be implemented to promote compliance?



Cardiff Fertility

#### Learning objectives

- $\hfill\square$  Understand how compliance relates with treatment success
- Be aware of current problems in defining and measuring compliance and how if affects rates estimated
- Understand how the onerous aspects of treatment may impact on treatment compliance
- Differentiate between different types of discontinuation from treatment (desired versus undesired)
- Identify patients in need of counselling support for compliance decision-making
- Lear how to promote compliance by implementing continuous psychosocial support

ardiff Fertility Studies



































|   |           |                      |            |          |  |             |         |           |         |       |         |             |            |            | •   |
|---|-----------|----------------------|------------|----------|--|-------------|---------|-----------|---------|-------|---------|-------------|------------|------------|---|
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|   | Reality I | Manufa<br>Mijur 1913 | (veet 201  | Contrast | Concession of the local division of the loca | Burner 2012 | it West | Numer 200 | THE BUT | Detty | Rear PL | incred 2014 | Vet-er 200 | Pringen    | <ul> <li>Second in investigated predictor</li> <li>Second in predictor according<br/>higher discustionation</li> <li>Second in predictor moduled low<br/>discustion action</li> </ul> |
| Doctor centured patients excluded.<br>from analysis | No        | No                   | Yes        | Yes      | 30   | No          | 340     | 2%        | No      | No    | No      | Yes         | No         | No         |   |
| Predictors  |           | -                    |            |          |  |             | -       |           |         |       |         |             |            | -          |   |
| Socio-demographic                                   |           | -                    |            |          |  |             |         |           |         |       |         |             |            |            |   |
| Age warmen  | •         | 338                  | 308        | 308      |  | •           |         | 208       | 308     | 378   |         | 308         | 328        | 308        |   |
| Age area  | 15        |                      |            |          | 35   |             |         |           |         |       |         |             | 315        |            | <b>—</b> 3  |
| Falscation somen                                    |           |                      |            |          | 38   |             |         |           |         |       |         |             | 3/3        | i –        | -13   |
| Education mes                                       | hā        |                      |            |          | 30   |             |         |           |         |       |         |             |            |            | -,  |
| Pinancialiarum                                      | 19        | 79                   |            |          | 78   | 78          |         |           |         |       |         |             |            |            | - 4   |
| Distance o fresidence to clinic                     |           | 7/8                  |            |          |  |             |         |           |         |       |         |             |            | i –        | -1  |
| Ethnicity   | 38        |                      |            |          |  |             |         |           |         |       |         |             |            |            | - 1   |
| Religion  | 322       |                      |            |          | 332  |             |         |           |         |       |         |             |            |            | -1  |
| Prychesocial  |           |                      |            |          |  |             |         |           |         |       |         |             |            |            |   |
| Anxiety women                                       | 38        |                      |            |          |  |             |         |           |         |       |         | **          | 3139       |            | - <u>-</u> 1  |
| Depressionwomen                                     | -         |                      |            |          |  |             |         |           |         |       |         | **          | 508        |            | - 2   |
| Distress women                                      |           |                      |            |          | 242  |             |         |           |         |       |         |             |            |            | - '   |
| Distress men  |           |                      |            |          | 38   |             |         |           |         |       |         |             |            |            | - 1   |
| Relational sexual adjustment woman                  |           |                      |            |          |  |             |         |           |         |       |         | 325         |            |            | 1 <sup>2</sup>  |
| Relational longial adjustment man                   |           |                      |            |          | 32   |             |         |           |         |       |         |             |            |            | - 1   |

| <br> |
|------|
|      |
|      |
|      |

#### Desired versus undesired discontinuation

#### $\square$ Desired

- based on patients' values and preferences
  - My religion beliefs do not allow me to use ART I decided to adopt

#### Undesired

■ as a result of uncontrollable barriers and/or burden

- I was not able to cope with another treatment cycle
- I was convinced that treatments would work at my first trial
- and was too put down by failure to think about continuing ■ I wasn't satisfied with care at clinic

diff Fertilit

#### When is burden too much burden?

#### STAFF:

- 1. does not like the doctor or vice versa is disruptive with staff and consistently demanding preferential and/or exceptional treatment
- has mental health problems that are disruptive to medical treatment
- needs extensive support that is beyond the ability and expertise of medical staff

#### COUPLE:

- communication problems and conflicts about treatment
   partners at different stages in the grief process and/or different goals

#### INDIVIDUAL:

- 1. feeling 'stuck' or that treatment is futile
- feeling resentful about medical appointments or treatment
   feeling disappointed when the doctor offers new treatment
   feeling the need to move on with life
- versus continuing to invest one's time, energy, and money in infertility treatment
- treatment 5. feeling relieved when one's spouse or doctor suggests quitting or taking a treatment holiday 6. feeling that one has already mourned the loss of one's biological child
- u...



- I hadn't thought about stopping treatment until today. I suppose it's made me confront issues that I should have addressed a long time ago.'
- We were prepared for our final appointment with every question you could possibly think of (...). I got more information about my medical condition than I ever had before, and I wondered why this hadn't come earlier'



|   | ·        |                      |                     |                            |  |  |  |  |
|---|----------|----------------------|---------------------|----------------------------|--|--|--|--|
| Clinics provide insufficient support                      |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
| Table III. Quality of information provision by clinic de- | tor.     |                      |                     |                            |  |  |  |  |
|   |          | The doctor gave me i | information about t | his                        |  |  |  |  |
|   | Yes      | No                   | Not sure            | Not applicable<br>Max n=71 |  |  |  |  |
| Advantages of stopping treatment                          | 17 (24%) | 35 (50%)             | 7 (10%)             | 12 (16%)                   |  |  |  |  |
| Disadvantages of stopping treatment                       | 13 (18%) | 36 (51%)             | 5 (7%)              | 17 (24%)                   |  |  |  |  |
| Options other than IVF                                    | 24 (33%) | 28 (40%)             | 4 (6%)              | 15 (21%)                   |  |  |  |  |
| dvantages of options other than IVF                       | 17 (24%) | 34 (48%)             | 5 (7%)              | 15 (21%)                   |  |  |  |  |
| access to independent counsellor                          | 48 (68%) | 8 (11%)              | 4 (6%)              | 11 (15%)                   |  |  |  |  |
| Access to other options (e.g., adoption and fostering)    | 14 (20%) | 42 (59%)             | 4 (6%)              | 11 (15%)                   |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      | Pe                  | ddie et al., 2004.         |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      |                     | 20                         |  |  |  |  |
|   |          |                      |                     |                            |  |  |  |  |
|   |          |                      | Cardiff Ferti       | lity Studies               |  |  |  |  |

| F                  | Providing psychosocial support |  |  |  |  |  |  |  |
|--------------------|--------------------------------|--|--|--|--|--|--|--|
| Type of<br>support | Who                            | Before treatment   | During treatment   | After treatment  |  |  |  |  |
| PCC                | ALL STAFF                      | -Information about<br>treatment<br>- success & compliance<br>rates<br>- preparatory<br>-Information about<br>alternatives<br>-Screening & referral | -Interventions to<br>decrease treatment<br>burden<br>- Tailor to individual<br>needs<br>- Screening & referral<br>- psychosocial support<br>- decisional aid | <ul> <li>Screening &amp; referral</li> <li>psychosocial support</li> <li>decisional aid</li> </ul> |  |  |  |  |
| Counselling        | Physicians &<br>MHPs           | -Information about<br>treatment & alternatives<br>-Decisional-aid<br>- Shared DM   |  | -Information about<br>treatment & alternatives<br>- Decisional-aid<br>- Shared DM                  |  |  |  |  |
| Psycho<br>therapy  | MHPs                           |  | Crisis intervention<br>Psycho / psychiatric therapy  |  |  |  |  |  |



#### In summary

□ Clinics should strive to monitor & promote treatment compliance

Monitoring of long term treatment trajectories

- □ Promotion of treatment compliance should be done by Implementing interventions to diminish treatment burden Much more research is needed to infer causal links
  - Providing patients with adequate psychosocial support Information provision and decisional-aid

Cardiff Fertility Stud

Cardiff Fertility Stud

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2



#### Erasmus MC Czafung

#### Conventional IVF approach Verberg et al., 2009

Aiming for high number of oocytes and embryos:

- Complex stimulation regimes
- Time consuming
- High patient discomfort
- Complications: ovarian hyperstimulation syndrome (OHSS)
- Multiple pregnancies
- High dropout rates
- High costs





|  | Erasmus MC      |   |
|--|-----------------|---|
|  | C 2 afin        | 9 |
|  | rg et al., 2009 |   |
| Aims:                                    |                 |   |
| <ul> <li>Complexity</li> </ul>           | ¥               |   |
| <ul> <li>Duration</li> </ul>             | $\downarrow$    |   |
| <ul> <li>Patient discomfort</li> </ul>   | $\downarrow$    |   |
| <ul> <li>Complication risk</li> </ul>    | $\downarrow$    |   |
| <ul> <li>Multiple pregnancies</li> </ul> | $\downarrow$    |   |
| <ul> <li>Dropout rates</li> </ul>        | $\downarrow$    |   |
| <ul> <li>Medical costs</li> </ul>        | $\downarrow$    |   |
|  | . 7             |   |







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|  | Erasmus MC      |
|--|-----------------|
|  | Carmo           |
| Patient perspectives on mild IVF 2 Payr                                | ne et al., 2012 |
|  |                 |
| Working with nature  |                 |
| <ul> <li>Using the natural menstruation cycle is more ended</li> </ul> | effective       |
| <ul> <li>Less medical intervention</li> </ul>                          |                 |
| <ul> <li>Better quality embryos</li> </ul>                             |                 |
|  |                 |
|  |                 |
|  |                 |
|  |                 |
|  |                 |
|  | 18              |
|  | 10              |



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# Patient perspectives on mild IVF 3 Payne et al., 2012

#### Time

- Shorter timeframe makes daily injections bearable
- Less intrusive into day-to-day activities
- Less time spent waiting for results
- Less emotional burden
- Shorter overall treatment period





|  | Erasmus MC                     |
|--|--------------------------------|
|  | Calmo                          |
| Mild vs. conventional IVF: 1-year resul                    | <b>ts Heijnen et al., 2007</b> |
| <ul> <li>Cumulative rates of term life births</li> </ul>   | $\leftrightarrow$              |
| <ul> <li>Number of cycles</li> </ul>                       | ↑                              |
| Cancellation rate  | ↑                              |
| <ul> <li>Cumulative rates of patient discomfort</li> </ul> | $\leftrightarrow$              |
| Anxiety, depressive mood,                                  |                                |
| physical complaints, sleep quality                         |                                |
| <ul> <li>Multiple pregnancy rates</li> </ul>               | Ļ                              |
| Costs  | $\downarrow$                   |
|  | 21                             |
|  |                                |



## Erasmus MC

22

## Reasons for IVF dropout Brandes et al., 2009

- Emotional distress
- Poor response
- Relational problems
- Doubt about treatment efficacy
- Health problems

Hild IVF and dropout

 Mild IVF and dropout

 Anxiety and depressive mood are risk factors for dropout
 Smeenk et al., 2004

 Less dropout in mild IVF than in conventional IVF verberg et al., 2008

 Less dropout in patients with pre-existing anxiety using mild IVF
 than in patients with pre-existing anxiety using conventional IVF

 Patients with pre-existing anxiety may benefit from the use of mild IVF



|  | Erasmus MC        |
|--|-------------------|
|  | Czalung           |
| Mild IVF: Strengths Fauser et al., 2010                    |                   |
| <ul> <li>Live birth rates per started treatment</li> </ul> | $\leftrightarrow$ |
| Complexity   | $\downarrow$      |
| <ul> <li>Patient discomfort</li> </ul>                     | $\downarrow$      |
| Dropout  | $\downarrow$      |
| Risks  | $\downarrow$      |
| <ul> <li>Medical costs</li> </ul>                          | $\downarrow$      |
| <ul> <li>Oocyte/embryo quality</li> </ul>                  | ↑                 |
|  |                   |
|  | 25                |
|  | 25                |







### Erasmus MC

## Enabling informed decision-making sage et al., 2008

- · Explain about informed consent and treatment choices
- Explain patients' rights
- Explain the differences between conventional and mild IVF
- Give information about procedures, benefits, risks and expected outcomes
- Explain the risks associated with multiple pregnancies
- · Explore contributing factors of unassertiveness
- Identify and challenge unhelpful thoughts
- Help patients formulate helpful alternative thoughts

#### Erasmus MC Cadimo Unhelpful thoughts about assertiveness sage et al., 2008 • Catastrophic thoughts about negative consequences of assertiveness • Over-generalization of previous negative consequences of assertiveness • Jumping to the conclusion that the doctor will not listen anyway • Labelling oneself as not important enough to be listened to by the doctor • Wanting to be a "good patient" • Wanting to avoid conflict or cause negative feelings in others







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#### Erasmus MC

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- 33























### Being an infertile wo(men)

 $\checkmark$  About 15 percent of the married couples are not be able to have a baby because of infetility.

✓ When a married couple do not fulfillment of the social duty of reproduction involuntary, they would not fulfill social role of "*being family*".

✓ For the couple, not having a baby means that *the loss of a social position* and emotional *crisis*.

















According to Sister Callista Roy, Impairment of adaptation is impairment of the health.

According to the Roy Adaptation Model:

Adaptation refers to the process and outcome whereby thinking and feeling people as individuals or in groups, use conscious awareness and choice to create human and environmental integration."

































couples to experience life crisis.


|  |  |   |   | _           |  |
|--|--|---|---|-------------|--|
| V lander   | The second   |   | d Experience of Infertility After<br>Medical Intervention   |             |  |
| costs area<br>Effects of a psychological intervention on   |  | M. Patrice McCarthy.  | RTI, CRIS, Ph0  |             |  |
| Sh Infertile Zouples<br>Jonal J., Nortols <sup>17</sup> , Estendt Romannadel <sup>2</sup> , Neuris R.<br>Rott (Sodicis <sup>17</sup> , Sala, S. Frendrict <sup>2</sup> , Ronal Darist <sup>2</sup> , R   | Hu   | infortility in the after math   | tative descriptive endsy was to explore the phenomenon of women's experience<br>to of newscoordal medical treatment. A purposive sample of 22 women between<br>n participant in a homenentric-chercomonicalcul meanch process and r   | - 14        |  |
| The subset devices between the state of the second se | The State State State Street Series  | Counselling in inferti  | ity individual, couple and group interventions  | 15          |  |
| <ul> <li>Base Appendix (part fair) for (p. 1.4). BY<br/>Almonthum pelitation (part 2.20)</li> </ul>  |  | "Decisio fronte decisión de contra  | tarysa temeny <sup>16</sup> , tenens Mosthenann <sup>14</sup> , meta thom <sup>14</sup>   | 1.1         |  |
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| C.M.Vichask <sup>24</sup> , J.M.J.Smersk <sup>2</sup> , A.W.M.Dw<br>and D.D.M.Remi <sup>2</sup>  | ra <sup>2</sup> , J.A.M.Kremer <sup>2</sup> , F.W.Kradmad <sup>2</sup>   | A 420 Million<br>Bernard J. Promans 2000<br>Million C. States and C. Sandar (1991   | - A set of a set of the set of |             |  |
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| ADJUSTMENT, AND SEXUAL FUNCTION<br>The effect of an infertility diagnosis on the distress, marital<br>and sexual satisfaction between husbands and wives in  |  |   |   |             |  |
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| for Woman and International Index of Erectile Function<br>is the control subjects.<br>Results: Epideon infertile couples and 12 couples to<br>The mean ago, years impetier, and household income<br>of 14.5 office walks for infertility, and 65% of couples<br>Martial Adjustment Text access for the means of the to   | Matrud<br>Bulgerand, Infecticy is a major productorial<br>polition. The factors fast predict production<br>different product and different affective productors.<br>Oblishing: The promoty summer of the starb to  | responses of admitity any vary in<br>on to provide the varies. Todak  | re capherel lie; efferi ef a gander-pocific inlexifility diagonds on the response<br>of the research was to compare the effections in detires, marital and use<br>to based on an infectible diagonals. MCIBIODS: There structured queckman<br>rathers of complex in which both partners were infertile represent ion marital<br>bands. No different nois marital and would which in the represent listen and<br>thereas no discussion of the structure of the structure of the structure<br>of the structure noise marked and would which in the transmission between the   | iro<br>atti |  |
| of the controls (* = 0.01); however no difference was<br>screen and a plantation provided on the fact and an   |  | and opport when concerned to now  | bank. To differently in markal and wood calification were band between a<br>Intertility. Only wires with a dispaced female infertility expressed higher dis-  |             |  |









# Burden of infertility on women

• As most procedures related to infertility diagnosis and treatments are performed on the woman, recurrent cycles and side effect of used medicine lead women to be exhausted physically after a while.

• Even though women is not diagnosed as an infertile, it may be interpreted as "inability to get pregnant". Because they have to receive infertility treatment by reason of male infertility problems.

# Burden of infertility on men Infertile men typically suffer tremendous grief, a challenge to their identity, and interpersonal struggle related to their "inability to have a biological child" or "failure in sexual life". Male infertility has more devastating effects than female infertility on each couples. However, most women think that infertility is "a destructive role failure", men can think that it is "disturbing, but it is just a situation that do not need to make it a tragedy".









| 1. I feel as if I were alone in the World                                     |                     |
|---|---------------------|
| 2. I feel myself excluded out of my family and friends                        |                     |
| 3. There are people around me to whom I can admit when I am bored             |                     |
| <ol><li>I have no more power to resist and struggle</li></ol>                 |                     |
| 5. I feel myself useless  |                     |
| 6. I feel myself unhealthy  |                     |
| 7. I feel myself anxious and nervous continuously                             | infertility distres |
|   |                     |
| 9. I feel myself continuously tired recently                                  | cale for Turkish    |
| 10. I much more take care of myself when compared to previous time            |                     |
| 11. I avoid to talk about not being able to have a child                      | Women"              |
| 12. I would't like being asked questions about not being able to have a child |                     |
| 13. My husband and I easily talk about not being able to have a child         |                     |
| 14. I easily have friendship with families who have children                  |                     |
| 15. I think people around me accuse me of not being able to have a child      |                     |
| 16. I think my husband accuse me  |                     |
| 17. That I cannot have a child affects sexual partnership with my husband     |                     |
| 18. I feel anger to my husband  |                     |
| 19. I think my husband does not currently love me as mush as previously       |                     |
| 20. Relationship between me and my husband has been affected negatively       |                     |
| 21. My husband is interested in me much more than before                      |                     |















# Burden of infertility treatment

- Disappoinment that is rised by getting infertility diagnosis may turn to hope, when the couples learn to have a treatment chance to have a baby.
- Akyüz (1996) stated that when the couples learned needing to IVF to have a baby, they were disappointed as other people as they well as were happy for having a treatment chance .







# Burden of infertility treatment

In the process of infertility treatment, women only focus on getting pregnant and many of them believe that when they get pregnant, they would be so happy.

Therefore, women consider infertility treatment options to have a baby in this

process at all cost.



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# Burden of infertility treatment

#### "Effect of desire to have a baby on risk acceptance in Turkish infertile women" Akyüz (2008)

AYOU ANYUZ NESE SEVER NEEMIN ODRUNG MURAT DEDE, AND THAT GORTOGA min and Crosselagie Narring, Narring Libration and Million Medical Analysis Connex—The size of this analyses to same above the Josier to accept the dataget database must be indexed by indexed by the bard of the database database and by indexed by indexed by the bard of the database database bard of the database ba

TO DESIRE TO HAVE A BANN ON RESK ACCEPTANCE Side effect due to infertility treatment were present in 49.6% of infertile group. However, 93.8% of the women did not consider discontinuing the treatment due to side effects they experienced.

•Furtermore, approximately two thirds of the infertile women stated that they would use infertility drugs even if they increased ovarian cancer risk.



Women with high anxiety score on the oocyte pickup day had significant lower pregnancy rates, a did those with higher depression.

# -Psychosocial -Burden of infertility treatment

OF NUMBERS COUNSELENC ON MEDIA IN TOTALS UNDERCOMM BU FERILLIZATION REFE ADD. RT Contra Car Decrem Secure-To puppe of process and you to endour the effectiveness of proceeding provided by scenes as depression and coping prompts of infinite scenes and applied as store hardwaters (N=47). Or the 14 sceness who wave interaction, you

"Effectiveness of nursing counselling on coping and depression in women undergoing in vitro fertilization."

The study group women were given counselling in addition to routine nursing care, including group education and individual interviews about treatments and coping strategies.

All of the women were using emotional coping and had moderate depression prior to the study. There was no statistical difference between the control and study groups before and after the counselling in respect to depression and coping strategies.

# –Psychosocial – Burden of infertility treatment

In our study that is in publishing process, "Infertility history: Is that a risk factor for marital violence against Turkish women?"

There has been determined that there is a statistically significant difference between the infertile and fertile women for the total score of violence in marriage. The emotional, economic and sexual violence scores were higher in the infertile group. However, the verbal violence score was lower.

# –Financial – Burden of infertility treatment

The budget implementation instructions and in accordance with changes made in 2008 in TURKEY:

"ART can be done for women who over the age of 23, younger than 40 years and results could not be obtained within the last three years for women by other treatment methods, and limited to a maximum of two applications

Families who have one or more children spontaneously or through ART, after that due to male or female infertility, If they receive ART to have children, the costs of IVF treatment is not covered by the government budget.













But, with some extras;

- Rest of burden of the previous treatment(s),
- Downhearted
- Decreased hope
- Decreseased financial resource vs.















# Psychological Problems during pregnancy and postpartum

- Studies and clinical experiences show that women with previous infertility have high level of anxiety and depression during pregnancy
- It is also stated that women with previous infertility may be at risk for developing depression during pregnancy and postpartum period.







# The Transition From Pregnancy to Postpartum in Previously Infertile Women

#### Infectility History Is it a Rick Factor for Pospartum Depression in Tarkish Women? Agai Asso, Au Ammun Reen, MK KS: A Berl Deval, Adu W.

accordally trained for primary salestility of 2 marks

"Infertility history ; Is it a risk factor for postpartum depression in Turkish women."

The probability of developing postpartum depression in the infertile group is 1.352 times higher than that in the fertile group.

Additional risk factors such as health issues during pregnancy, the notion that pregnancy causes a decrease in libido and negative body image, the infant's gender, pain from incision or infection, and dyspareunia were manifest in the fertile women, but not in the infertile women.

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# The use of the Internet and other online resources and its impact on the burden of treatment

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# Learning objectives

- To explore the role of the Internet as an informational and support tool for couples living with infertility
- To consider both the advantages and disadvantages of infertility online support communities and reflect on advice which may be given to patients about their use
- To consider the development of web-based multimedia interventions and their efficacy as an informational and support tool

#### Background

- Individuals faced with infertility have access to numerous websites focussing on:
  - Infertility, infertility testing and infertility treatment options
- Websites often include support communities either through asynchronous formats (e.g. forums) or synchronous (e.g. chat rooms)
  - "Infertility" 36.4 million hits
  - "IVF 5.5 hits"
  - "infertility treatment" 9.43 million hits
  - "infertility support group" 6.81 million hits

# INFORMATION SEEKING ONLINE

#### Internet use

- In excess of 40% of infertility patients search for infertilityrelated information online
- Huang et al., (2003)
  - Examined Internet use in couples seeking infertility treatment (total N = 200)
    - 178 (89%) used the Internet for general purposes
    - 89 (44.5%) fertility-related issues
  - Reasons for Internet use?
    - 1. Better understanding of the medical condition & options
    - 2. A second opinion
    - Dissatisfaction with information received from health professionals

#### Internet use

- Weissman et al., (2000) two clinics in Toronto
  - Among the study population, 42% of couples had used the Internet in relation to their fertility problems

  - Predominantly females (76%)

#### • Reasons for using the Internet for infertility problems?

- 84% searched for medical information on infertility diagnosis and therapy
- 51% evaluated fertility clinics
- 25% searched for self-help groups
- 19% used it to purchase fertility drugs

#### Does it help?

- There is *some* evidence that searching for infertility-related information online is helpful
- Greil & McQuillan (2004)
  - A third of Internet users in their sample of 33 infertile women described the infertility information they obtained online as 'very useful'

#### • Weissman et al., (2000)

- Reported that 30% of patients in their study found that the Internet was helpful in their decision-making process
- Haagen et al., (2003)
  - Found that 64% of users reported that the Internet had improved their knowledge about fertility issues

#### A note of caution

- A number of authors have expressed concerns about the quality of content available in various infertility websites (Epstein & Rosenberg, 2005; Huang et al., 2005; Marriott et al., 2008; Okamura, Bernstein & Fidler, 2002)
- Marriott et al., (2008)
  - In a review of 107 infertility-related websites retrieved via a Google search, most scored relatively low on predefined criteria assessing credibility, accuracy and ease of navigation

#### **ONLINE SUPPORT COMMUNITIES**

#### What are they?

- Collections of people who interact with each other about a mutually interesting health or illness-related topic in cyberspace i.e. online
- Sometimes called:
  - Online support/self-help groups
  - Computer-mediated support groups
  - Virtual support communities
- Many websites offer communication features and these have helped foster the development of online support communities

# Reasons for popularity

- Transcend geographical and temporal constraints
   24 hrs a day, no travel time, convenient
- Greater degree of anonymity
  - No cues regarding gender, age, ethnic background etc
  - May facilitate discussion of sensitive topics
- Access to diverse perspectives, experiences, opinions and sources of information
  - Group composition may be more diverse than traditional support networks
- Important learning opportunity for non-members
   Potential new members, relatives, friends, health professionals
- Control over what is said

# Infertility online support communities

- Malik & Coulson (2008)
  - 95 patients reported their experiences (both good and bad)
  - Using thematic analysis (Braun & Clarke, 2006) 5 emergent
    - themes were identified:
    - "unique features of online support"
    - "improved relationship with partner"
    - "reduced sense of isolation"
    - "information and empowerment"
    - "negative aspects of online communities"
- A range of important benefits but also some potential disadvantages

# Therapeutic potential?

- Growing literature which suggests that online support communities may facilitate many of the therapeutic exchanges that occur in face-to-face self-help and support groups
- Limited application in the context of infertility
- Notable exception: Malik & Coulson (2010)
  - Content analysis of 3500 messages posted to infertility bulletin boards
  - Messages generated by 778 members

| Sub-board                     | Main purpose of sub-board  |
|-------------------------------|--|
| Starting out                  | A support and discussion forum for people new to infertility treatment<br>and individuals wishing to introduce them to the group   |
| 2-week wait                   | To provide a discussion and support forum for infertile couples who are<br>on the 2-week wait between ovulation/intra-uterine inseminations/in<br>vitro fertilization etc and pregnancy testing            |
| Negative cycle                | To provide support to individual and couples who have experienced a<br>negative treatment cycle  |
| Inbetween<br>treatment        | To provide a discussion forum for those people between fertility cycles  |
| Trying for another<br>miracle | To provide support to parents of children conceived by infertility<br>treatment, hoping for another miracle  |
| Pregnancy loss                | To provide support for individuals and couple experiencing pregnancy loss  |
| Moving on                     | To provide support to those individuals for whom there are no longer<br>available any options regarding successfully achieving a birth child of<br>their own, or for those whom the chance of this is slim |

| Evidence for self-help mechanisms?             |  |  |  |
|--|--|--|--|
| Support or empathy (N=1591; 45.5%)             |  |  |  |
| Requesting information or advice (N=238; 6.8%) |  |  |  |
| Providing information or advice (N=558; 15.9%) |  |  |  |
| Sharing personal experience (N=1588; 45.4%)    |  |  |  |
| Creative expressions (N=7; 0.2%)               |  |  |  |
| Universality (N=169; 4.8%)                     |  |  |  |
| Friendship (N=345; 9.9%)                       |  |  |  |
| Chit-chat (N=329; 9.4%)                        |  |  |  |
| Gratitude (N=436; 12.5%)                       |  |  |  |
|  |  |  |  |



#### **Problematic aspects**

- Anonymity may lead to deindividuation?
   Hostile, aggressive or uninhibited behaviour
- Asynchronicity

   May be a time lag to responses
- Accuracy of medical information
   Particularly if there is no professional involved to moderate
- Addictive

   Could it actually increase social isolation?

# Disadvantages of infertility online support communities

- Malik & Coulson (2010)
  - A total of 295 members of infertility online support communities completed an online questionnaire
  - Mean age = 34 (SD=4.9)
  - majority UK (89.4%)
  - The average time since diagnosis 4.8 years (SD=3.6) with a range of 0.25 to 25 years
- Did anyone experience any disadvantages and if so, what were they?
  - 170 (57.8%) reported experiencing disadvantages to infertility online support communities

| Reading about negative experiences (N=32; 10.9%)  |          |
|---|----------|
| Reading about others pregnancies (N=26; 8.8%)     | □        |
| Inaccurate information (N=23; 7.8%)               |          |
| Its addictive (N=17; 5.8%)                        | ⊃        |
| Unhelpful replies (N=16; 5.4%)                    | ⊐        |
| Volume of messages (N=14; 4.8%)                   | <b>_</b> |
| Cliquishness (N=12; 4%)                           |          |
| Technical issues related to the site (N=10; 3.4%) |          |
| Hostile behaviour (N=7; 2.4%)                     |          |
| Social comparison (N=7; 2.4%)                     |          |
| Lack of physical proximity (N=4; 1.4%)            |          |
| Judgemental replies (N=3; 1%)                     |          |
| Lack of privacy (N=2; 0.7%)                       |          |
| Not receiving a reply (N=2; 0.7%                  |          |
|   |          |



- Experiencing disadvantages was found to be related to less overall satisfaction with the online experience
- More educated participants were more likely to report
   experiencing disadvantages
  - More critical about information quality and therefore report more disadvantages and concerns than others?

OTHER WEB-BASED RESOURCES

- Increasing interest in the potential for web-based multimedia to educate and provide support to medical patients
- Such interventions may be an effective adjunct to routine clinical care and may facilitate – rather than detract from – the ability of health professionals to play an important part in supporting infertility patients

#### Example

- Cousineau et al., (2008)
  - 190 female patients recruited from 3 US fertility centres and randomised into two experimental and two no-treatment control groups
  - Brief online education and support programme
  - Psychological outcomes included: infertility distress, infertility self-efficacy, decisional conflict, marital cohesion and coping style
- Key findings: Women exposed to the online programme improved significantly in the area of social concerns related to infertility and felt more informed about a medical decision with which they were considering

#### Conclusions

- The Internet has an increasingly important role in the burden of infertility treatment
  - Access, convenience, lack of information and support
- Emergence of peer to peer online support communities (including Facebook groups)
  - Both advantages and disadvantages
  - How should health professionals respond? What advice should they offer?
- · Potential for more complex web-based interventions
- More research is needed in all aspects of infertility online

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# Witeuven 3) Unique aspects of grief (in infertility, biochemical pregnancy, miscarriage,...) Multidimensional loss: Loss of a 'baby' Loss of self-esteem as a parent Feelings of failure as a woman Loss of 'pregnant status' Fear of loss of reproductive capacity Fear of loss of health

Fear of loss of control

Ö ®





(R)





































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# Erasmus MC

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# Burden of treatment and your sex life

ESHRE 2012, pre-congress course, SIG Psychology & Counselling

1<sup>st</sup> July 2012 drs. Hester Pastoor Erasmus MC, Rotterdam, NL Department of Reproductive Medicine h.pastoor@erasmusmc.nl psychologist, sexologist, systemic therapist







- Acquire knowledge about:
  - Sexual dysfunction causing infertility

ESHRE 2012, pre-cong

- Infertility diagnoses causing sexual dysfunction
- Fertility treatment causing sexual dysfunction
- Develop a biopsychosocial view

Erasmus MC



# Are sex and reproduction related?

• YES

- Sex can cause conception
- Dysfunctional sex causes infertility
- Infertility can cause sexual dysfunction

ESHRE 2012, pre-congres

se, SIG Psy

ART can cause sexual dysfunction



#### Sexual health

- Sexual health is a state of physical, emotional, mental and social well-being related to sexuality; it is not merely the absence of disease, dysfunction or infirmity.
- Sexual health requires a positive and respectful approach to sexuality and sexual relationships, as well as the possibility of having pleasurable and safe sexual experiences, free of coercion, discrimination and violence.
- For sexual health to be attained and maintained, the sexual rights of all persons must be respected, protected and fulfilled.

rse. SIG Psy

Source: WHO Draft working definition, October 2002

ESHRE 2012, pre-cond

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#### Sexuality

- Sexuality is a central aspect of being human throughout life and encompasses sex, gender identities and roles, sexual
- orientation, eroticism, pleasure, intimacy and reproduction.
- Sexuality is experienced and expressed in thoughts, fantasies,
  desires, beliefs, attitudes, values, behaviours, practices, roles
- desires, beliefs, attitudes, values, behaviours, practices, roles and relationships. While sexuality can include all of these
- dimensions, not all of them are always experienced or expressed.
- Sexuality is influenced by the interaction of biological,
- psychological, social, economic, political, cultural, ethical, legal, historical, religious, and envirtual factors
- historical, religious and spiritual factors. • Source: WHO Draft working definition, October 2002

ESHRE 2012, pre-congress course, SIG Psychology & Counselling

#### Case example

- Janet (43) and Martin (44)
- Partners for 20 years
- ART for 8 years, no conception
- Counselling: decision making (ending ART)

#### Sexual problems:

- Diminished sexual desire
- Dyspareunia
- 'Trapped' in fertile period of cycle
- Sexual repertoire: coitus

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Male infertility 'Being less than a man' (Gurkan, 2009)

(Gurkan, 2009)

(Khademi, 2008)

(Elia, 2010)

(O'Brien 2005)

(Tao 2011)

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 In general
 1. Erectile dysfunction Avoiding sexual activity

• 2.61.6% ED

 3. Less pleasure Sex for reproduction

 4. ED 36 % infert vs 11% control p=0.005 ADAM 39% vs 21% p=0.009

5. Lower self-esteem, sexual self-esteem higher than in women
Lower sexual QOL compared to controls
(7ac

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|     | The couple   |                   |  |  |  |  |
|-----|--|-------------------|--|--|--|--|
|     | 'You should find another partner' (Read, 2011)                             |                   |  |  |  |  |
|     |  |                   |  |  |  |  |
| 1 · | In general (men)   |                   |  |  |  |  |
| 1 · | 1. Male partner less sexual satisfaction ict female partner                |                   |  |  |  |  |
|     | <ul> <li>Male factor: Relationship instability</li> </ul>                  |                   |  |  |  |  |
|     | <ul> <li>Sexual satisfaction lower</li> </ul>                              | (Tao, 2011)       |  |  |  |  |
| Ι.  | 2. Men more SD infertile couples, compared to sterilization couples        |                   |  |  |  |  |
|     | <ul> <li>Intercourse not spontaneous (timing, purpose)</li> </ul>          |                   |  |  |  |  |
|     | Decline in arousal   |                   |  |  |  |  |
|     | <ul> <li>Failure, uselessness : decline sexual desire</li> </ul>           |                   |  |  |  |  |
|     | <ul> <li>'interference' of medical team in the bedroom</li> </ul>          | (Wischmann, 2010) |  |  |  |  |
| .   | 3. Male lower QOL than norm group p<0.05                                   |                   |  |  |  |  |
|     | <ul> <li>23% depression (no diff norm)</li> </ul>                          |                   |  |  |  |  |
|     | <ul> <li>22% Erectile Dysfunction</li> </ul>                               |                   |  |  |  |  |
|     | <ul> <li>pos predicted bij female sex functioning p=0.01 r=0.27</li> </ul> | (Shindel, 2008)   |  |  |  |  |
| Ι.  | 4. 20% ED in infertile couples   |                   |  |  |  |  |
|     | <ul> <li>duration of infertility</li> </ul>                                | (Quintero, 2005)  |  |  |  |  |
| .   | 5. Men lower scores vs norm:   |                   |  |  |  |  |
|     | <ul> <li>desire p=0.01, intercourse satisf p=0.04 (vs norm)</li> </ul>     |                   |  |  |  |  |
|     | <ul> <li>ED 23.9% vs 13.7% p=0.01</li> </ul>                               | (Drosdzol 2008)   |  |  |  |  |
|     | <ul> <li>Corr with infert diagn p=0.006</li> </ul>                         | Erasmus MC        |  |  |  |  |
| 1   |  | (zalus            |  |  |  |  |
| 1   | ESHRE 2012, pre-congress course, SIG Psychology & Counselling              |                   |  |  |  |  |
|     |  |                   |  |  |  |  |



#### Fertility treatment

#### 'Emotional rollercoaster' (Wischmann 2010)

- 1. All fertility treatments are invasive and potentially emotionally distressing
- Vaginal examination, oocyte retrievement
  - Semen collection
  - Use of medication
    - Decapeptyl: E decline
    - desire, dyspareunia, mood swings
- 2. Not being able to produce sperm: cancelling treatment cycle
   Failure, guilt
- 3. 53% says wish for a child is incompatible with a satisfactory sex life
   Loss of sex spontaneity
  - Freq of sex intercourse 50% (in 30% of couples) (Wischmann 2010)
     ESHE 2012, pre-corporate course SIG Protohory & Counseling
     Zerfex 2012, pre-corporate course SIG Protohory & Counseling

# Donorgametes

- Oocyte donation (Carter 2011)
- Heterosexual women, N=50
- 47% sexual dysfunction in receiving women
  - Depression 33%
  - Distress 59%

Semen donation (Borneskog, 2012) Lesbian couples, N= 166 couples Sexual relationship was rated better when higher educational level (.045) Known vs not-known sperm donor: no impact relationship quality

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| Hypotheses  |                   |  |  |  |
|---|-------------------|--|--|--|
| <ul> <li>Sexual dysfunction is related to:</li> </ul>                 |                   |  |  |  |
| 1. Sexual aspects:  |                   |  |  |  |
| <ul> <li>Loss of sexual pleasure</li> </ul>                           |                   |  |  |  |
| <ul> <li>Focus on conception (coitus only on fertile days)</li> </ul> |                   |  |  |  |
| <ul> <li>Men: Loss of masculinity</li> </ul>                          |                   |  |  |  |
| Women: sexual function positively correlated to male sexual function  | (Tao 2011)        |  |  |  |
| 2. Psychosocial aspects:  |                   |  |  |  |
| <ul> <li>Depression, anxiety</li> </ul>                               |                   |  |  |  |
| <ul> <li>Distress in general</li> </ul>                               |                   |  |  |  |
| <ul> <li>Self-esteem</li> </ul>                                       |                   |  |  |  |
| Marital distress  | (Millheiser 2010) |  |  |  |
| 3. Fertility aspects:   |                   |  |  |  |
| <ul> <li>Medical team symbolically present in bedroom</li> </ul>      |                   |  |  |  |
| No conception: failure, uselessness, less desire, less enjoyment      | Erasmus MC        |  |  |  |
| ESHRE 2012, pre-congress course, SIG Psychology & Counselling         | ~ ()              |  |  |  |



#### Recommendations

- 1. Multidisciplinary approach (Gurkan, 2009)
- 2. Professional support (Gurkan 2009)
- 3. Holistic approach on sexuality in infertility (Tao, 2011)
- 4. Acknowledge & normalise (Read, 2011)
- In general:
- A. Check knowledge about reproduction
- B. Ask questions about sexuality (before, during, after ART) in more detail, e.g.
   Does intravaginal ejaculation occur? Is coitus possible?
  - Do you experience sexual problems?
  - C. Advise the couple to separate sex from reproduction
  - D. Silfdenafil citrate can be useful (Boorjian, 2007)
  - D. Refer to a (sex) therapist when necessary

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# Case example

- Janet (43) and Martin (44)
- Partners for 20 years
- ART for 8 years, no conception
- Counselling decision making (ending ART)
- Sexual problems:
  - Diminished sexual desire (m/w)
  - Dyspareunia (w)
  - 'Trapped in' fertile period of cycle (w)
  - Sexual repertoire: coitus (m/w)
- Sexual problems turn out to be primary

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#### Case example

- Psychosexual therapy:
- Psycho-education about sexual functioning (desire, arousal, pain)
- Cognitive behavioral therapy (myths, mourning)
- Couples therapy (communication, time/attention)
- Sensate focus (desire, arousal, repertoire) Pelvic floor relaxation

Ritualised goodbye to the child

#### Results:

- 10 sessions
- Improvement in sexual functioning and partnerrelationship

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Learning objectives - Information

Participants will learn about:

· How (distressed) patients react to complex information

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- General principles of patient-professional communication
   in the biopsychosocial model
- Specific characteristics of patient-professional communication in fertility treatment

#### Learning objectives - Skills

Participants will learn how to:

- Deliver medical information in a way acceptible for patients
- Communicate in different phases of fertility treatment: pre-treatment, during treatment, waiting for results, post results
- Communicate identification of burden of treatment, psychological vulnerability, relational strain

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How (distressed) patients react to complex information?

How physicians may deliver medical information in a way acceptible for patients.

#### Medical information in general

40-80% does get forgotten or cannot be recalled accurately (Kessels et al. 2003)

#### Explanations:

- Doctor: technical jargon, doctor-centered communication
- Information: only verbal or written
- Patient: older age, anxiety, distress

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#### Improve retention of medical information

→ Reduce amount of information (Kessels et al. 2003)

- → Check for patient comprehension
- →Ask to put into their own words what they have been told
- →Correct inaccuracies (Braddock et al. 1997)

→ Provide written materials with pictures (Houts et al. 2006)

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#### Improve retention of medical information

- ➔ Present medical information simultaneously through different senses
- Auditive (verbal information)
- Visual (non-verbal expression, printed material, pictures)
- Tactile (bodily sensations)



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Medical information in fertility treatment

Takefman et al. 1990

- →Adapt the quantity of information to the needs of a particular treatment phase
- →Too much information decreases the uptake of educational information in the diagnostic phase

Caveat: too much information

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A double problem with medical information

Information not retained, but also .....

#### Information not offered

 Only 57% of patients in a fertility clinic received detailed information recommended by guidelines (Mourad et al. 2009)



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#### Purposes of medical communication

- Good doctor-patient relationship
- Exchanging information: integration of patient-centred and doctor centred approach
- Medical decision making: the patient has as much information as wanted before the final decision

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#### Most common communication behaviours of doctors

- 1. Giving information and instructions
- Asking questions, however.... exchange of facts rather than sharing emotions (Bensing et al. 2003)
- But, there's a whole patient history before the first contact and doctor-patient communication













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#### First medical consultation

| PATIENT, PARTNER                | PROFESSIONAL                   |
|---------------------------------|--------------------------------|
| A special day, n=1              | Day-to-day, n>10               |
| Focus on outcome                | Focus on technique             |
| Pre-existing subjective beliefs | Need for objective information |
| Uncertainty                     | Control                        |
| High expectations               | Normal expectations            |
| New information                 | Standard knowledge             |
| Limited working memory capacity | Deliver necessary information  |
|                                 |                                |
| PSYCHOSOCIAL perspective        | MEDICAL perspective            |

discrepancy in perspectives
 caveats for a good doctor-patient relationship

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#### Skills needed in the pre-treatment phase

- Empathic
- Respectful
- Non-judgemental
- · Sensitive to concerns
- Aware of impaired attention to medical information
- Use of silence
- Aware of non-verbal behaviour

The first consultation is crucial in the patient-professional relationship

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#### Outcomes of better doctor-patient communication

#### Teutsch, 2003

- Better emotional wellbeing
- Resolution of symptoms
- Improved functioning
- Better physiological measures
- Better pain control

# Verbal and nonverbal behaviours related to better patient outcomes

Verbal

- Patient-centered
   questioning
- Empathic responses to patientsSummarizing information
- Leaning towards patient
- Nodding when appropriateFriendlyness

• Open and direct posture

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Courtesy

Non-verbal

- Clarifying information
  - Longer consultations

(Beck et al. 2002)

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Specific characteristics of patient-professional communication in fertility treatment

Quality of interactions between patients and fertility staff

Systematic review (Dancet et al. 2010)

- · Lack of empathy
- Negative interactions with staff
- Poor listening skills
- Poorly formulated explanations of healthcare plans

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# What do patients expect from communication with treating physician in the fertility clinic?

- Reassurance (Palumbo et al. 2011)
- Shared decision making (Peddie et al. 2004)
- Identification of treatment burden
- · Addressing patients' fears or worries
- Feedback about treatment progress (Boivin et al. 2000)

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Gender differences in doctor-patient communication

In general:

→Female physicians are more likely to engage in patientcentered behaviours

→Patients speak more in consultations with female physicians

Hall & Roter, 2002; Roter & Hall, 2004

# UNC ⊕ StRatbood Gender differences in doctor-patient communication However, a reversal of this pattern in studies conducted in obstetric/gynaecological settings → Male physicians engaged in more emotion-focused talk and elicited more affective information Hall & Roter, 2002; Roter & Hall, 2004



Different communication skills in particular phases of fertility treatment

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- Pre-treatment: empathy, shared decision making, exchange of information
- During treatment: address patient's fears or adherence
- Waiting for results: empathy, brief interactions
- Post results: feedback on progress, giving bad news
  - ➔ Challenges for health care professionals



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#### Communication concerning burden of treatment

Psychological burden is caused by

- Patient history (psychological vulnerability)
- Demands of treatment

Identify at-risk fertility patients with short tools and refer to mental health professional for support plans during treatment (Boivin et al. 2012)

Caveat: Communication of a positive screen between identification and referral

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How can the doctor communicate a positive screen of psychological vulnerability?

#### <u>Do's</u>

- Prepare a separate interview
- Allow yourself the time, in a private setting
- Focus on the expected burden of treatment
- Acknowledge strong emotions Focus on support needed to
- improve the fertility treatment
- Negotiate a mutually acceptable plan Explain unexpected outcomes
- (provide a safety net)

# Don'ts

•

- During the routine consultation • No extra time for reactions
- · Stop or ignore emotions
- Stigma of dysfunctional behaviour or psychopathology
- Focus on referral to psychologist
- . Order the patient how to handle during treatment
- Threat of stopping fertility treatment

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Problems in doctor-patient communication as an extra source of burden of treatment

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#### **Reactions of patients**

- Feeling hurt or let down resulting in depressed mood
- Anger as emotion
- Aggression as behavioural response
- · Anxiety resulting in hypervigilance or increase of control

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#### Helpful responses of doctors

- Empathy and understanding of these strong emotions
- Let the patient talk and vent emotions
- Communicate about the problems in communication (meta-communication)

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#### Feritility treatment at risk for communication problems

- Complex medical technologies demand the attention of doctors
- Rapidly changing discipline puts high demands on doctors in keeping up their expertise
- Patients with high expectations and with strong emotions
- Relational strains between patients and partners require expert communication skills

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#### Richard Horton (2003): patient versus technology

- <u>Trust</u> between doctors and patients has defined the practice of medicine since the time of Hippocrates. But <u>can it</u> <u>endure in an age of complex medical</u> <u>technologies</u>, ever-increasing demands on doctors, and new threats to health?
- Horton sees <u>medicine as a fractured and</u> <u>rapidly changing discipline</u> under unprecedented social, political, financial, and scientific pressures. But he insists that it should be guided above all by <u>one ideal: the dignity of an</u> <u>individual in the face of illness</u>.





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#### Communication in fertility treatment

| PATIENT, PARTNER                | PROFESSIONAL                         |
|---------------------------------|--------------------------------------|
| A special day, n=1              | Each patient is unique               |
| Focus on outcome                | Focus on expected outcome            |
| Pre-existing subjective beliefs | Check the health beliefs             |
| Uncertainty                     | Express understanding                |
| High expectations               | Discuss realistic expectations       |
| New information                 | Repeat, reduce and check information |
| Limited working memory capacity | Deliver requested information        |
|                                 |                                      |
| PSYCHOSOCIAL perspective        | BIOPSYCHOSOCIAL perspective          |

➔ a good doctor-patient relationship



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#### Feedback, educational activities and research

- · Feedback of observed emotional distress in patients
- Feedback of negative staff-patient communication
- Encourage respectful communication of patient problems
- · Organize focus groups of patients and partners
- Staff training in fertility specific communication themes (patient-centered communication, giving bad news)
- Research of psychosocial responses of patients and partners

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#### Take home messages

- · Each encounter with a patient is a unique experience
- · Listen to this unique patient and her partner
- Be empathic and understanding
- Reduce information and check comprehension
- Adress fears and worries
- Give feedback about treatment progress
- · Identify treatment burden and emotional distress
- Respond non-judgmental

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# Burden

Infertility and treatment

- Vulnerable/stigmatized/frustrated/losing control
- Treatment time consuming
- Treatment needs scheduling
- Concern side effects of treatment
- Fear self-injecting
- Lack of control
- Balance hope fear after insemination/embryo transfer
- Threat of definitive childlessness

Redshaw et al. 2007 Hum Reprod Boivin et al. 2011 BMJ Domar et al. 2012 Hum Reprod

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#### UMC

# Burden

Infertility and treatment

- Depression
- Anxiety
- twice the prevalence of depressive symptoms relative to fertile women
- 1:5 subclinical forms of anxiety/depression
- Most stressful: oocyte retrieval and pregnancy test

Boivin et al. 1995 Fert Steril Verhaak et al. 2005 Hum Reprod uu et al. 2007 Best Pract Res Clin Obstet Gynaecol

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# Burden

Infertility and treatment

- Reduced Quality of Life (55 score out of 100) measured by FertiQoL
- Less self-esteem (~ 50% women)

Boivin et al. 2011 Hum Reprod and Fert Steri Domar et al. 2012 Hum Repro novich et al. 2010 J Psychosom Obstet Gyneco

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- Infertility and treatment
- Marital issues
- (e.g. relationship, sexual satisfaction, intimacy)
- Inconclusive
- Marital distress marital adjustment

Cousineau et al. 2007 Best Pract Res Clin Obstet Gynaecol



# Burden

Infertility and treatment

- Productivity Loss
- Overall absence IVF/ICSI cycle on average 33 hours
- Costs ~€ 600 per woman/cycle

# Burden

Risk factors increasing burden

- Women
- Longer duration infertility
- More unsuccessful treatment cycles
- Diagnosis
- Female age

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ans et al. 2008 A

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Boivin et al. 1995 Fert Steril Ragni et al. 2005 Hum Reprod Chachamovich et al. 2010 J Psychosom Obstet Gynecol Ogawa et al. 2001 BP\$ Med



















# **Quality of care**

- Implementation QM system
- Requires effort
- Patients and professionals profit
- Is recommended
- Not per se better quality
- Unknown relation with burden of treatment

Helbig et al. 2008 Int J Health Care Qual Assurance Shaw et al. 2010 Int J Qual Health Care

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# **Quality of care**

- Satisfaction
- Advantage
- (seems) easy to measure

Degree of CONGRUENCE between patients' pre-existing expectations of care and the accomplishment through the actual care service received

Pascoe. 1983 Eval Program Plann

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Mourad et al. 2009 Hum Re

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Jenkinson et al. 2002 Qual Saf I

# Quality of care

#### Satisfaction

• Low expectations - satisfied with deficient care

Example:

- Satisfaction and actual fertility care information provision
- 1499 couples
- 28 recommendations
- 94% couples (very) satisfied
- received 57% of the recommended information (10-96%)

# **Quality of care**

#### Satisfaction

- Disadvantages
- Overoptimistic
- Large discrepancy satisfaction health care quality
- Patients' experiences with specific care aspects more useful
- Could guide care improvement

# UMC Stadoud Quality of care Institute of Medicine • Effectiveness • Cost-effectiveness • Equity of access • Timeliness • Patient centredness • Safety



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tute Of Medicine. 2001 Crossing th

# Quality of care

- Effectiveness
- Service based on scientific knowledge
- Refraining from providing service to those not likely to benefit













# **Quality of care**

Effectiveness and burden

- Anxiety and depression
- Unsuccessful treatment → levels negative emotions ↑
- 2-fold increase suicide
- Pregnancy → negative emotions disappeared
- → stress is related to treatment outcome

#### Johansson et al. 2010 Acta Obstet Gynecol Verhaak et al. 2007 Hum Reprod Update Kjaer et al. 2011 Hum Reprod

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#### **Quality of care**

Effectiveness and burden

- Quality of Life
- Unsuccessful treatment → satisfaction with life/QoL ↓
- Women lower QoL scores than men
- → more effective treatment would reduce burden (of treatment) for couples

Johansson et al. 2010 Acta Obstet Gynec Ragni et al. 2005 Hum Repr Hammarberg et al. 2001 Hum Repr 2010 J

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# **Quality of care**

- Cost-Effectiveness
- Avoiding waste
- Superior after comparative analysis in terms of costs and effectiveness
- Ideal: more effective and lower costs

#### • Examples:

- Vasectomy reversal vs. IVF with sperm retrieval
- Single vs. double embryo transfer
- Purified human menopausal gonadotrophin vs. rFSH

Institute Of Medicine. 2001 Crossing the quality chass Drummond et al. 2004 Methods of the economic evaluatio of health care programm

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# **Quality of care**

- Cost-Effectiveness and burden
- Less infertility studies on cost-effectiveness
- Studies on cost-effectiveness and burden rare
- Those available: cost-effective strategy no effect on depression/anxiety/sleep quality/drop out Cost-effectiveness
  - •
  - Mild ovarian stimulation IVF ٠
  - Shared decision making SET/DET
  - Laparoscopy unexplained infertility

Heijnen et al. 2007 Lance Van Peperstraten, et al. 2010 BM. Moaveri et al. 2009 Fert Steri
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### **Quality of care**

- Cost-Effectiveness and burden
- Special attention to time horizon in cost-effectiveness studies
- Time to pregnancy is associated with QoL
- → More cost-effective treatment → more resources → more people be helped → less burden

Ragni et al. 2005 Hum Reprod

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# **Quality of care**

Accessibility

- Care that does not vary in quality because of personal characteristics
  - Ethnicity, socioeconomic status, geography
- Since 1994 International Conference on Population and Development (Cairo)
- Since 1995 World Conference on Women (Beijing)
- More attention to reproduction in women's health and live, but .....







Accessibility and burden

- Studies on accessibility and burden rare
- Those available:
- high burden infertility in developing countries
- CBC despite difficulties (language, travels, additional costs) positive experiences → 50% success rate
- → Better accessibility → more people be helped → less burden

Dhont et al. 2011 Hum Reprod Wiersema et al. 2006 J Transl Med Blyth et al. 2010 Fert Steril Inhorn et al. 2012 Curr Opin Obstet Gynecol

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Timeliness

- Reducing waits and harmful delays
- Reducing unnecessary care
- Example:
- Use of prediction models for treatment (in)dependent pregnancy



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Institute Of Medicine. 2001 Crossing the quality chasm Leushuis et al. 2009 Hum Reprod Update



# Quality of care

Timeliness and burden

- Effects of using such models on burden is unknown
- Patients' appreciation of expectant management on average 5,7 (out of 10)

#### Barriers to treat timely

- Lack of confidence in natural conception
- Need for more instructions or information material for
- the expectant period
- No management of expectations

Leushuis et al. 2009 Hum Reprod Update Van den Boogaard et al. 2012 Hum Reprod

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### **Quality of care**

- Timeliness and burden
- Effects of timely treatment is unknown
- → More timeliness → more resources → more people be helped or less treatment needed → less burden

# **Quality of care**

- Patient centredness
- ≠ patient satisfaction
- ≠ patient friendly
- ≠ psychosocial care
- $\neq$  being nice to patients
- ≠ customer is king



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Institute Of Medicine. 2001 Crossing the

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# **Quality of care**

- Patient centredness
- Provision of care that is respectful of and responsive to individual patient preferences, needs and values ...
- System and human factors

# UMC 🛞 St Radboud **Quality of care** Patient centredness System factors Information provision Competence staff Coordination and integration Accessibility Continuity and transition Physical comfort

Human factors Attitude of staff Communication Patient involvement and privacy Emotional support

Dancet et al. 2011 Hum Repr

# **Quality of care**

Patient centredness System factors Information provision Competence staff Coordination and integration waiting times, financial, holidays Accessibility Continuity and transition Physical comfort

concrete, general, personal, channels, timeliness clinical expertise, good order, file telephone, emergency, flexibility continuity of staff, consistent policy pain medication, accommodation

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Dancet et al. 2011 Hum Rep et al. 2010 Hum Reprod Upd

# **Quality of care** Patient centredness Human factors Attitude of staff

Communication Patient involvement and privacy Emotional support

#### friendly, sensitive, respectful, relationship, behavior, appearance taking time, understandable, bad news shared decision making, access to health record, personalized care daily care and specialized staff, contact co-patients

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Dancet et al. 2011 Hum Repr et al. 2010 Hum Reprod Upda



- Patient centredness
- Measurement by experiences Need for
- Couple-centred approach
- More (written) information
- $^{\bullet}$  Assignment of one staff member for questions/problems
- More emotional support

Souter et al. 1998 Hum Repro Schmidt et al. 2003 Hum Repro n Empel, et al. 2010 Hum Repro

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Van Empel, et al. 2010 Hum R

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# Quality of care

- Patient centredness
- Measurement PC Questionnaire Infertility
- Validated instrument
- 46 items
- Distinction 'weak' and 'strong' performing clinics
- European instrument is coming!

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Aarts et al. 2012 H

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### **Quality of care**

- Patient centredness and burden
- Anxiety and depression (n=427)
- PCQ Infertility and HADS in unpregnant women
- Multilevel regression analyses
- Lower levels of anxiety or depression significantly associated with perceptions of more patient-centred care

### **Quality of care**

- Patient centredness and burden
- Quality of Life (n=427)
- PCQ Infertility and FertiQoL in unpregnant women
- Multilevel regression analyses
- Higher levels of quality of life significantly associated with perceptions of more patient-centred care

# **Quality of care**

Patient centredness and burden

- Marital stress and benefit
- Questionnaires (COMPI) program 1013 (un)pregnant women and 886 men
- Multivariate regression analyses
- Less marital stress and more marital benefit significantly associated with perceptions of more patient-centred care

Schmidt et al. 2003 Hum Reprod



Safety

- Avoiding injuries from the care that is intended to help them
- Examples:
- OHSS Infection



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- Bleeding Congenital anomalies
- Multiple pregnancies

- **Quality of care** 
  - Safety and burden
  - Multiple pregnancies
  - Pregnancy related morbidity and mortality
  - Severe parenting stress (22%)
  - Felt depressed first year (47%)
  - Felt social stigmatized
  - Lower quality of life
  - Lower marital satisfaction
  - ◆ More safe treatment → less burden
    Fiddelers et al. 2009 Hum Reprod
    Pinberg. 2005 Hum Reprod
    Pinberg. 2005 Hum Reprod
    Pinberg. 2005 Ferm Sterit
    Damato. 2005 Verb more
    Roca-de Bes et al. 2009 Fert Sterit

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#### **Conclusion and recommendations**

Quality of care and burden

- There is burden by infertility and fertility treatment
- Effective fertility care reduces burden
- Quality of care is more than effectiveness of care
- Cost-effectiveness, Accessibility, Safety and Timeliness of care in relation to burden scarce, but plausible relation
- Patient centred fertility care related to less burden, but direction of relation unclear

#### **Conclusion and recommendations**

- Quality of care and burden
- Improvement quality of care gives a reduction of burden
- Not all dimensions of quality of care easy to improve
- Patient-centredness of care most suited

### **Conclusion and recommendations**

Quality of care and burden

- In accordance with, reduction of burden by a tailored and integrated approach
- Patient/couple level (e.g. education, lifestyle or psychological intervention)
- Organisational level (e.g. waiting times and rooms, flexibilities appointments)
- Treatment level (e.g. milder stimulation, pen injections)

Boivin et al. 2012 Hum Reprod

### Mark your calendar for the upcoming ESHRE Campus events

- Basic Semen Analysis Course in Greek Language 4-7 September 2012 Athens, Greece
- Basic Genetics for ART practitioners 7 September 2012 - Rome, Italy
- Regulation of quality and safety in ART the EU Tissues and Cells Directive perspective 14-15 September 2012 - Dublin, Ireland
- Basic Semen Analysis Course in Spanish language 18-21 September 2012 Galdakano,Vizcaya
- GnRH-antagonists in ovarian stimulation 28 September 2012 Hamburg, Germany
- The best sperm for the best oocyte 6-7 October 2012 - Athens, Greece
- Basic Semen Analysis Course in Italian language 8-11 October 2012 - Rome, Italy
- Accreditation of a preimplantation genetic diagnosis laboratory 11-12 October 2012 Istanbul, Turkey
- Endoscopy in reproductive medicine 21-23 November 2012 - Leuven, Belgium
- Evidence based early pregnancy care 29-30 November 2012 - Amsterdam, The Netherlands

www.eshre.eu (see "Calendar")



Contact us at info@eshre.eu