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# Gynecological Surgical Interventions (Conservative and Non-Conservative): Clinical Psychological Variables and Symptomatology Pertaining to Perioperative Period

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#### Abstract

**Objective:** After considering great interindividual variability of subjective experience and clinical course in reference to conservative and non-conservative gynecological surgical interventions, an attempt was made to evaluate potential role of several clinical and psychological variables with respect to perioperative symptomatological course and illness behaviour.

**Materials and methods:** The sample consists of 58 women (mean age 41.4±8.7) undergoing gynecological surgical interventions (conservative and non-conservative ones) for benign pathologies. The anamnestic and clinical data (psychological anamnesis, clinical history, indications, methods and typology of the intervention) were collected using a specifically designed summary form. For the evaluation of pre-and post-operative symptomatological course and illness behaviour, the following psychological tests were respectively used: The Symptom Questionnaire (SQ), with 3 planned administrations (respectively 15 days before the intervention, a day before the intervention and at discharge) and the Illness Behavior Questionnaire (IBQ), completed before discharge. Non parametric tests (Mann-Whitney and Kruskal-Wallis) were used to compare performances on independent samples.

**Results:** Results show that perioperative symptomatological course and illness behaviour in the cases of gynecological surgical interventions for benign pathologies depend on clinical variables, that is, typology and methods of the intervention, clinical history, psychopathological anamnesis.

**Conclusion:** Findings suggest the importance of clinical-anamnestic inquiry oriented towards the evaluation of variables that emerged as risk factors, with the goal of planning personalised support interventions for preventing and/or reducing distress and impact on psychophysical wellbeing arising after gynecological surgical interventions.

Keywords: Surgical Gynecological intervention - Psychology - Anxiety - Somatic complaints

## Introduction

Over the years, although it is a highly developed field of clinical research, not much has been written about the more exquisitely psychological aspects of hysterectomy surgery (Nathörst-

Boos et al. 1992; Carlson et al., 1994; Hartmann, 2004; Helström et al., 2005; Majumdar et al., 2019; Mann et al., 2020).

For both total and total condoms, the consequences on the physical and psychological plane for women are enormous. Despite this, there is not always good clinical attention due to the phases immediately preceding the surgical operation and in the moments immediately following this (Bellerose et al., 1993; Wechter et al, 2007; Carter et al, 2010; Lilic et al., 2011; Pellegrini et al., 2017).

The present study aimed at evaluating potential role of some clinical and psychological variables, that is, indications, methods and typology of the intervention, positive/negative anamnesis for psychological disorders, surgical interventions, abortions, and voluntary terminations of pregnancy, with respect to pertaining symptomatology and to illness behaviour in the case of conservative and non-conservative gynaecological surgical interventions for benign pathologies.

## Materials and methods

The sample consists of 58 women with age from 28 and 59 years (mean 41,40; SD  $\pm$  8,78), that were to undergo gynaecological surgical interventions (conservative or non-conservative ones) for benign pathologies (Tab. 1).

The subjects were consecutively recruited from Obstetrics and Gynaecology Unit of Carpi, Hospital, Modena province, (Italy). All subjects were assessed 15 days before hospitalization for surgery.

## Inclusion/exclusion criteria

The following inclusion criteria were adopted: Italian nationality or good comprehension of Italian language; age from 28 to 60 years; educational level not lower than elementary school diploma; either fertile age or menopause; conservative and non-conservative gynaecological interventions for uterine pathologies (myometrial and endometrial), and benign adnexal pathologies and prolapse; methods of the intervention: laparotomy, laparoscopy and vaginal procedure.

Women that underwent gynaecological surgical interventions for neoplasm, examinations of the uterine cavity, sterilisation and post-partum complications were excluded from the sample. All the descriptive data are showed in Tab. 1.

#### Tab. 1. Sample characteristics

As in previous researches (Cosentino et al., 2018; Pruneti et al., 2020) some psychological variables were assessed. For the evaluation of perioperative symptomatological course, the Symptom Questionnaire (SQ) by Fava and Kellner (1981) was used. The self-administered questionnaire consist of 92 items with dichotomous answers. It is possible to obtain an evaluation by means of eight subscales (anxiety, inability to relax, depressive symptoms, inability to feel contented, somatic symptoms and lack of physical wellbeing/sense of weariness, hostility, and lack of good disposition towards others). They are also four main scales (anxiety, depression, somatic symptoms and hostility) for the evaluation of prevailing symptomatology reported in a determinate time. This kind of self-rating questionnaire was administered at three different points in time: 15 days before the intervention, week form (SQ1), one day before the intervention (SQ2) and at the moment of discharge, day form (SQ3).

Besides that, before the discharge, the administration of Illness Behaviour Questionnaire (IBQ) by Pilowsky and Spence was provided for as well, the Italian version edited by Fava and Bernardi (1983).

This self-administered questionnaire is composed of 62 items with dichotomous answers. Data are distributed in 7 factors: general hypochondriasis, disease conviction, psychologicalsomatic perception of illness, affective inhibition, dysphoria, denial, and irritability, that permit the evaluation of illness behaviour and, specifically, of convictions, subject's attitudes and feelings towards proper pathology, their perception of reactions of significant people concerning their pathology and their view of proper psychosocial situation.

For the entire sample, mean, standard deviation and medians of test scores were calculated. All subjects voluntarily participated in the study by signing a written consent which safeguarded privacy and which explained that the interview and the short psychological questionnaires would only slightly extend the time dedicated to medical visits. All subjects accepted with pleasure to participate in the research. At the end of the observation, there was an interview, carried out individually between the subject and a clinical psychologist for the discussion of the results that emerged from the reports of the tests carried out.

For the analysis of differences in pertaining symptomatology and in illness behaviour among the subgroups taken in consideration, statistical test by Mann-Whitney (for two independent samples) and test by Kruskal-Wallis (for three or more independent samples) were used.

## Results

The means and SD of the obtained scores from entire sample at SQ scales and subscales, confirm that symptomatology course in the perioperative period (from 15 days before the intervention to the discharge day) is characterised by an important inter-individual variability *(tab.* 2).

One more important variability emerged as well in illness behaviour (Tab.3). Therefore, an attempt was made to analyze if and which clinical and psychological factors could have a role concerning the variance of pertaining symptomatology, by comparing different subgroups with respect to variables that are research object.

Tab. 2. SQ1-SQ2-SQ3: range, mean, standard deviation (S.D.), median

Tab. 3. IBQ: range, mean, standard deviation (D.S.), median

## Symptomatological course

Regarding the SQ, from descriptive point of view (fig. 2), anxiety shows a decreasing course, with values higher than the cut-off (4), in the period prior to the intervention and lower at the discharge. Depressive symptoms, on the contrary, tend to stay constant and at the threshold level before the operation, with an increase in postoperative period. This phenomenon is probably due to the inevitable difficulties created by hospitalization and post-operative convales-cence.

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The Somatic complain scale shows elevated values in the perioperative period, with significant decrease in the day before the intervention. Such course can be attributed to potential distractive action of anxiety with respect to somatic complaints.

Hostility shows decreasing course as well, but with values still under the cut-off value.

#### < Figure 1 >

Fig. 1. Symptomatological course. SQ scales - 15 days before the intervention (SQ1), one day before (SQ2) and before the discharge (SO3): medians.

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Clinical variables, pertaining symptomatology and illness behaviour: subgroups in comparison

The sample was divided into subgroups by the following grouping variables.

• Total/subtotal hysterectomy vs gynaecological interventions excluding uterus removal;

• Indications for the intervention: uterine pathologies (endometrial and myometrial), adnexal pathologies, prolapse;

- Methods of the intervention: laparotomy, laparoscopy, vaginal procedure;
- Pertaining symptomatology absent vs present;
- Positive vs negative anamnesis for prior surgical interventions;
- Positive vs negative anamnesis for prior pregnancies;
- Positive vs negative anamnesis for abortion (spontaneous/therapeutic) and/or voluntary termination of pregnancy (VTP);
- Desire for maternity: absent vs present;
- Positive vs negative psychopathological personal history,

In order to confront these subgroups, Mann-Whitney statistical test (for two independent samples) and Kruskal-Wallis test (for three or more independent samples) were used and they showed significant differences, both in pertaining symptomatology (anxiety, depression, somatic symptoms and hostility), and in illness behaviour.

## Indications, typology and methods of the intervention

In proximity to the intervention, women undergoing surgical gynaecological interventions excluding uterus removal (N=35), report a higher degree of anxiety (U=276; p<.05), inability to relax (U=217.5; p<.01), with higher levels of hostility (U=262; p<.05) and lack of physical wellbeing (U=279; p< .05) with respect to the women undergoing total or subtotal hysterectomy (N=23). Data are showed in tab. 4.

Regarding the psychological reactions and expectations for the interventions (tab. 5), fifteen days before the operation, women with uterine pathologies (N=31) with respect to those with adnexal pathologies (N=21) and those with prolapse (N=6) report more intense depressive symptoms (2=6.01; p<.05; 2=6.2; p<.05). While in the proximity to the intervention, psychological impact is greater for women with adnexal pathologies, which report higher levels of anxiety (2=6.43; p<.05) and depression (2=6.39; p<.05).

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Even with respect to the methods employed for the surgical intervention, we detected several differences between groups. While fifteen days before women undergoing laparotomy (N=26) are the ones to report the greatest shatter of psychophysical wellbeing, with more intense symptoms of anxiety (2=6.47; p<.05), depression (2=10.92; p<.01 and 2=12.16; p<.01) and somatic symptoms (2=7.37; p< 0.05), a day before the operation, subjects operated in laparoscopy (N=27) report the greatest level of anxiety (2=8.37; p< .05) and depression (2=6.43; p< .05). Data are showed in tab. 6. The prolapse and vaginal procedure are respectively the indication and the method of intervention associated with the smallest psychological impact during the perioperative period.

In the previously considered subgroups, besides, there were not noted significant differences in illness behaviour, except for the tendency to significance in disease conviction ( $\chi^2$ =5.61; p=.06) with respect to the methods of the intervention, with highest levels of apprehension about their own pathology in women undergoing laparotomy interventions; compared to those operated with laparoscopy and vaginal procedure.

Tab. 4. Mann Whitney Test: comparison between the subgroups total/subtotal hysterectomy and gynecological interventions excluding uterus removal with respect to the SQ and IBQ scores. Course of differences.

Tab. 5. Kruskal-Wallis Test. Grouping variable indications for the intervention. Score comparison for SQ and IBQ. Course of differences.

Tab.6. Kruskal-Wallis Test. Grouping variable method of the intervention. Score comparison for SQ and IBQ. Course of differences. Symptomatology associated to the indication present vs absent

Subjects (N=38) that show organic symptomatology associated to the indication for the intervention that is moderate-intense, and interferes with normal functioning, report, even in the SQ, higher levels of somatic symptoms (U=233.5; p< .05 e U=249,5; p< .05) and lack of physical wellbeing (U=236,5; p< 0,05) before the operation. These somatic complaints are connected to a greater psychological impact after the intervention, with more intense anxiety (U=221; p< .05) and depressive symptoms (U=247.5; p< .05 e U=207; p< .01) (tab. 7).

Tab.7. Mann-Whitney Test. Grouping variable associated symptomatology present vs absent. Score comparison for SQ and IBQ. Course of differences.

Positive vs negative anamnesis for prior surgical interventions, prior pregnancies, abortion and/or VTP.

Women that underwent other surgical interventions in the past (N=48), gynecological or not, compared to those who had never undergone any operations (N=10), report higher levels of anxiety (U=126,5; p<.05) along with a greater difficulty of feeling contented (U=128.5; p<.05) fifteen days before, while they report lower hostility and irritability (U=127; p<.05 e U=131; p<.05) after the intervention (tab. 8).

Having had prior pregnancies (N=34) compared to not having had this experience (N=24) is associated with higher levels of hostility (U=277; p<.05 e U=283,5 p<.05), but at the same time, with minor anxiety (U=265; p< .05 e U=267,5; p<.05) and greater ability to relax (U=279.5; p<.05 e U=282.5; p<.05) in the preoperative period (SQ1 e SQ2). All of this together with a mental orientation able to interpret the symptomatology less or more connected with the pathology as somatic and not psychological influenced (U=281.5; p<.05), (tab. 9). There were not found significant differences between subjects with positive anamnesis for VTP (N=7) and those with positive anamnesis for abortion (N=7), spontaneous and/or therapeutic, hence the subgroups were considered jointly.

Women with previous experience of VTP and/or abortion (N=14) report greater ability to relax (U=198; p<.05) and to feel contented (U=147.5; p< .01) before the intervention; while after the operation, they report lighter symptoms of depression (U=149; p<.01), greater relaxation (U=172; p<.05) and a minor impact on physical wellbeing (U=189; p<.05) (tab. 10).

Tab.8. Mann-Whitney Test. Grouping variable positive vs negative anamnesis for surgical interventions. Score comparison for SQ and IBQ. Course of differences. Tab.9. Mann-Whitney Test. Grouping variable positive vs negative anamnesis for prior pregnancies. Score comparison for SQ and IBQ. Course of differences.

Tab.10. Mann-Whitney Test. Grouping variable positive vs negative anamnesis for VTP and/or abortion. Score comparison for SQ and IBQ. Course of differences.

## Psychological variables: psychopathologic anamnesis and desire for maternity

Subjects with positive psychopathological anamnesis (N=15) show higher levels of anxiety before the intervention (U=197; p<.05 e U=175; p<.01), higher dysphoria connected to the pathology (U=207; p<.05) and a higher tendency to express their own feelings, especially negative ones (U=192.5; p<0.05) (tab. 11).

Desire for maternity seems to have a negative influence on perioperative experience. Women who manifest desire for more pregnancies (N=26) compared to those who do not want to have more children (N=32) report more intense anxiety symptoms (U=238.5; p<.01 and U=260.5; p<.01) and lower ability to relax (U=263; p<.05 and U=225; p<.01) before the intervention, with higher anger and hostility in the perioperative period (U=280. 5; p<.05 and U=260; p<.05) (tab. 12).

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Tab.11. Mann-Whitney Test. Grouping variable positive vs negative psychopathological anamnesis.
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Score comparison for SQ and IBQ. Course of differences.

Tab. 12. Mann-Whitney Test. Grouping variable desire for maternity yes vs no. Score comparison for SQ and IBQ. Course of differences.

#### Discussion

Obtained results confirming great inter-individual variability in subjective experience associated with gynecological surgical interventions reveal the role of some clinical variables as factors potentially responsible for such variance.

Psychological impact in perioperative period is greater for women that underwent interventions excluding uterus removal with respect to the women that underwent hysterectomy, with higher levels of anxiety, inability to relax and sense of general malaise.

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With regard to the indications for the intervention, while fifteen days before the intervention women with uterine pathologies are the ones to complain about more intense depressive symptoms, with the proximity of operation the distress, with more significant levels of anxiety and depression, is greater for women affected by adnexal pathologies.

The same course is revealed with regard to the methods of the intervention: while fifteen days before the intervention the subjects undergoing laparotomy are the ones to report greatest levels of dysphoria and somatic symptoms, in the proximity of the intervention, women that underwent laparoscopy surgery are the ones to report higher levels of anxiety and depression. The slightest psychological impact is associated with gynecological interventions for prolapse and vaginal procedure.

These data suggest that different levels of psychological distress can be attributed not only and not as much to indications, methods and typology of the intervention, as to information, or better yet, the type of given information. In fact, even in the case of surgical operations of laparoscopy, as well as in the presence of adnexal pathologies, the possibility of non-conservative uterine interventions or of consequent necessity of laparotomy operation is not however excluded. Such possibility is also clearly specified in informed consent signed by the patient. It seems that the greatest impact on psychophysical wellbeing can therefore be partially attributed to this state of great uncertainty. Different pieces of information that are given and the following expectations seem to influence significantly perioperative symptomatological course and general and emotional psychological consequences for women.

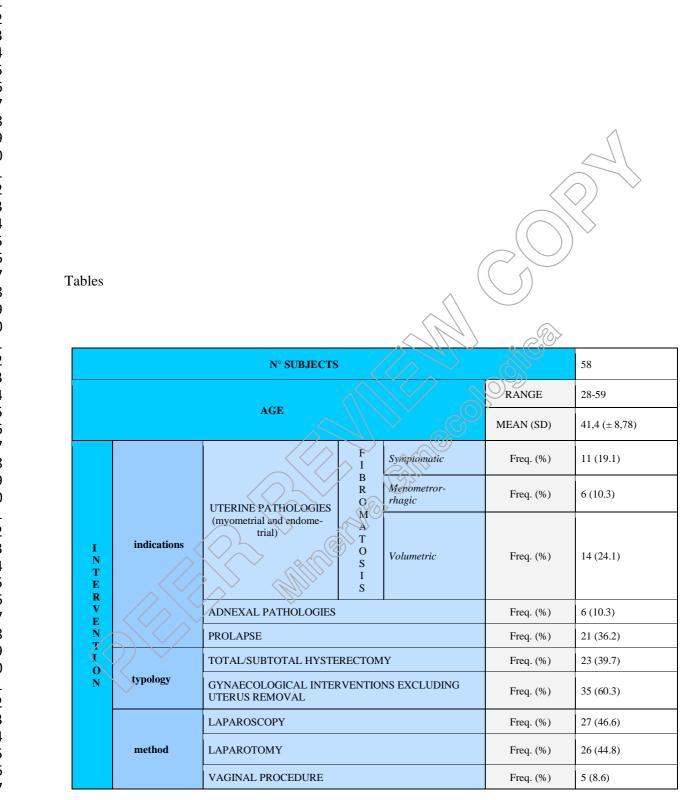
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#### Authors' contribution:

Masellis, Mortilla and Pruneti designed the research design and collected the data; Pruneti, Guidotti and Caramuscio wrote the paper. All authors read and approved the final version of the manuscript.



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		DANCE	MEAN	C D	MEDIAN
		RANGE	MEAN	S.D.	MEDIAN
	Anxiety (A1)	0-18	7.10	4.36	6
SQ1	Depression (D1)	0-14	5.05	3.77	4
~ <b>Q</b> -	Somatic symptoms (S1)	0-21	7.9	5.63	8
	Hostility (O1)	0-13	3.45	3.08	3
	Anxiety (A2)	0-18	6.53	5.29	5,5
SQ2	Depression (D2)	0-11	4.6	2.63	4
	Somatic symptoms (S2)	0-14	5.33	4.22	5
	Hostility (O2)	0-11	1.78	2.47	
	Anxiety (A3)	0-18	4.35	4.34	3093
SQ3	Depression (D3)	0-14	5.14	2.7	6
	Somatic symptoms (S3)	2-20	10.4	4.32	10
	Hostility (O3)	0,4	1.14	1.19	1
			A COLORING		
		RANGE	MEAN	S.D.	MEDIAN
e	General hypochondriasis	0-8	2.23	2.03	2
	Disease conviction	0-5	1.93	1.28	2
	Psychological-somatic per-	0-6	2.19	0.93	2
IBQ	ception of illness	0.5	1.7	1.55	1
	Affective inhibition	0-5	1.7	1.55	1
	Dysphoria	0-5	1.61	1.52	1
	Denial	1-5	3.33	1.29	4

1

1.16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  $\begin{array}{c} 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40 \end{array}$ 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

Irritability

0-5

0.95

Subgroups	TEST	SCALES	U	Р	course
		Anxiety scale	276	< 0.05	A <b< td=""></b<>
	SQ2	Inability to relax subscale	217.5	< 0.01	A <b< td=""></b<>
Total/subtotal hysterec- tomy (A) vs gynaecological inter-		Lack of wellbeing/weari- ness subscale	278.5	< 0.05	A <b< td=""></b<>
ventions excluding		Inability to relax subscale	265	< 0.05	A <b< td=""></b<>
uterus removal (B)	SQ3	Lack of wellbeing/weari- ness subscale	279	<0.05	A <b< td=""></b<>
	-	Hostility scale	262	< 0.05	A <b< td=""></b<>
subgroups	TEST	SCALES	χ²	р	course
	SQ1	Depression scale	6.01	6.05	A>B>C
Indications:	SQI	Depressive symptoms subscal	le 62	< 0.05	A>B>C
uterine pathologies (A) vs		Anxiety scale	6.43	< 0.05	B>A>C
adnexal pathologies (B)		Anxiety subscale	6.57	< 0.05	B>A>C
vs prolapse (C)	SQ2	Depression scale	6.39	< 0.05	B>A>C
		Inability to feel contented sub	8.87	< 0.05	B>A>C
	> <	Min			

subgroups	TEST	SCALES	$\chi^2$	р	course
Method:	SQ1	Anxiety scale	6.47	< 0.05	A>B>C

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laparotomy (A)		Depression scale	10.92	< 0.01	A>B>C
vs laparoscopy (B)		Depressive symptoms subscale	12.16	< 0.01	A>B>C
vs vaginal procedure (C)		Inability to feel contented sub- scale	6.22	< 0.05	A>B>C
		Somatic symptoms scale	7.37	< 0.05	A>B>C
		Anxiety scale	8.37	< 0.05	B>A>C
		Anxiety subscale	8	< 0.05	B>A>C
	SQ2	Depression scale	6.43	< 0.05	) B>A>C
		Inability to feel contented sub- scale	8.38	0.05	B>A>C
	IBQ	Disease conviction	5.61	Tending to signifi-	A>B>C

subgroups	TEST	SCALES		р	course
		Somatic symptoms scale	233.5	< 0.05	A > B
	SQ1	Somatic symptoms subscale	249.5	< 0.05	A > B
Associated sympto- matology		Lack of wellbeing/weariness subscale	236.5	< 0.05	A > B
present (A) vs absent		Depression scale	247.5	< 0.05	A > B
(B)	SQ3	Depressive symptoms sub- scale	207	< 0.01	A > B
		Anxiety subscale	221	< 0.05	A > B

subgroups	TEST	SCALES	U	р	course
	SQ1	Anxiety scale	126.5	<.05	A+ > A-

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Positive (A+) vs		Inability to feel contented subscale	128.5	<.05	A+ > A-
negative (A-) anam- nesis		Hostility scale	127	<.05	A+ < A-
for surgi- cal inter- ventions	SQ3	Hostility subscale	131	<.05	A+ ¢A-
subgroups	TEST	SCALES	U	e e e e e e e e e e e e e e e e e e e	course
subgroups	TEST	SCALES Inability to relax subscale	279.5	<.05	course A+ < A-
Positive	TEST SQ1			<.05	
Positive (A+) vs negative		Inability to relax subscale			A+ < A-
Positive (A+) vs negative (A-) anam- nesis		Inability to relax subscale Hostility scale	279.5	<.05	A+ < A- A+ > A-
Positive (A+) vs negative (A-) anam- nesis for prior pregnan-		Inability to relax subscale Hostility scale Hostility subscale	279.5	<.05	A+ < A- A+ > A- A+ > A-
Positive (A+) vs negative (A-) anam- nesis for prior	SQ1	Inability to relax subscale Hostility scale Hostility subscale Anxiety scale	279.5 279.5 2207 283,5 265	<.05 <.05 <.05	A+ < A- A+ > A- A+ > A- A+ < A-

subgroups	TEST	SCALES	U	р	course
	SQ1	Inability to relax subscale	198	<.05	A+ < A-

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Positive (A+) vs neg-	SQ2	Inability to feel contented subscale	147.5	<.01	A+ < A
ative (A-) anamnesis for VTP		Depression scale	149	<.01	A+ < A-
and/or abor-	SQ3	Inability to feel contented subscale	136	<.01	A+ A-
		Inability to relax subscale	172	<.05	A+ < A-
		Lack of wellbeing/weariness subscale	189	<.05	A+ < A-

subgroups	TEST	SCALES	U	p C	course
Positive	SQ1	Anxiety scale	197	0.95	A+ > A-
(A+) vs neg- ative (A-)	501	Anxiety subscale	175	< 0.01	A+ > A-
psycho- pathological	IBQ	Affective inhibition	192.5	< 0.05	A+ < A-
anamnesis		Dysphoria	207	< 0.05	A+ > A-

subgroups	TEST	EST SCALES		р	course	
Desire for maternity yes vs no	SQ1	SQ1 Inability to relax subscale		< 0.05	yes > no	
	SQ2	Anxiety scale	238.5	< 0.01	yes > no	

				n		
1			Anxiety subscale	260.5	< 0.05	yes > no
2 3 4 5 6 7			minery subscare	200.5	~ 0.05	y Co / 110
3 1						
4 5			Inability to relax subscale	225.5	< 0.01	yes > no
5					-	
7						
8			Hostility subscale	280.5	< 0.05	yes > no
9						$\land$
10						
11		SQ3	Hostility scale	260	< 0.05	yes > no
12					<	$\langle \bigcirc \rangle$ $\vee$
13						
14					$( \frown$	$\langle \rangle \rangle$
15						))
16					(	
17 19					$(\langle \rangle)$	
18 10				$\land$		
19 20				$\sim //$		
20 21				$ \sim 1 N $	$\rangle$	$\geq$
22				$\rangle / / /$	í <u>A</u> O	
23				$// \sim$		
24					(O) 2	
25				$\bigvee$	$\gg$	
26				' S		
27						
28						
29				52~		
30						
31						
32		$\langle \rangle$				
33						
34 25	/	//				
35 36	$\sim$	$\times/\wedge$				
30 37		$\rightarrow$	$\checkmark$			
38		$\land$				
39						
40						
40	$\searrow$					
42	$\sim$					
43						
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