

Translation, cultural adaptation, and validation and reliability of assessment of pelvic floor disorders and their risk factors during pregnancy and postpartum questionnaire in Turkish population

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ABSTRACT

Objectives: This study was conducted in order to produce translation, cultural adaptation, and validation of Assessment of Pelvic Floor Disorders and Their Risk Factors During Pregnancy and Postpartum Questionnaire (APFDQ) to Turkish in pregnant and postpartum population.

Material and methods: The study included 80 pregnant women. Internal consistency was tested using Cronbach's alpha. Questionnaires were applied three different times in order to assess for sensitivity. Patients were asked to complete the questionnaire first in the third trimester, secondly in postpartum 6th week and finally in postpartum 6th month after birth. For translation process content, face/content validity, reliability, construct validity and reactivity studies were done. All women had undergone pelvic examination and prolapse was assessed by using Pelvic organ Prolapse Quantification System (POP-Q). Urinary symptoms were also evaluated with Urinary Distress Inventory (UDI-6) questionnaire.

Results: The mean age of patients was 27.7 ± 5.5 years. Forty-one (51.25%) of the patients had vaginal delivery and 39 (48.75%) had a cesarean section. Above 96% of the patients had completed the questionnaires. POP-Q assessments and UDI-6 results were used to evaluate construct validity. Cronbach's alpha results were found to be 0.7 for all the subscales of the questionnaire: bladder: 0.702, bowel: 0.744, prolapse: 0.701, sexual function: 0.706 respectively, indicating adequate reliability. The test/retest reliability was studied and Pabak values showed moderate reliability in the bowel, prolapse and sexuality, and good reliability for bladder subscale. The results of the patients were compared between pregnancy and postpartum to assess reactivity and shown to be reactive to changes. Also risk factors of the patients were assessed including, family predisposition, maternal age over 35 years, BMI > 25, nicotine use, subjective inability to contract pelvic floor and sense of postpartum wound pain.

Conclusions: The Turkish version of APFDQ is a reliable and valid tool. It can be used for assessing the risk factors, incidence, assessing degree of PFDs and evaluating the impact on quality of life in pregnant and postpartum women.

Key words: pelvic floor dysfunction; pregnancy; postpartum; validation

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INTRODUCTION

Pelvic floor dysfunction (PFDs) is a complex of urinary incontinence (UI), fecal incontinence (FI), pelvic organ prolapse (POP), sexual dysfunction, and other urogenital symptoms [1]. PFDs incidence was shown to be as high 67.5% of

the women excluding pregnancy and postpartum period [2]. The prevalence of each pelvic floor was evaluated, and anal incontinence was found 19.8%; urinary incontinence, 50.7%; constipation, 33.2%; and obstructed defecation, 26.8% [3, 4]. Childbirth is shown to be related to PFDs. Parity was

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found to be correlated with urinary incontinence in 50% of the patients and with prolapse in 75% of the cases [5]. Postpartum assessment of pelvic floor in terms of PFDs could lead to early diagnosis and intervention, and we could provide a protective health care [6].

PFDs are linked to physical and emotional stress, causing psychological problems and decreased quality of life [7]. But most of the patients discuss these problems with healthcare providers. Although pregnancy and postpartum periods are accepted as high-risk factors for pelvic floor trauma, it has not been studied thoroughly [8]. Further studies are needed to understand the effect of pregnancy and delivery on the pelvic floor structure.

In our opinion, questionnaires are fundamental for detecting the adverse effect of the disease to quality of life. In Turkey there are no validated questionnaires to address PFDs in pregnant and postpartum women. We aim to translate, validate and culturally adapt a APFDQ which detects PFDs regarding bladder function, bowel function, prolapse and sexual function with risk factors in pregnant and postpartum patients. Postpartum depression is also questioned to clarify the etiology of the decreased quality of life.

This questionnaire was constituted on previously validated German pelvic floor questionnaires in urogynecology patients [9]. New sections were added regarding risk factors, childbirth and impact on quality of life. Some of the questions were removed in order to adapt the questionnaire to younger patients (Annex 1 and 2).

MATERIAL AND METHODS

The original version of APFDQ was adapted to Turkish in the study.

Validation permission for the questionnaire was taken from the developer, Dr. Kaven Baessler for the use. Ethical board approval was taken from Zeynep Kamil Research and Training Hospital (19.12.2018/164).

Translation and cultural adaptation

The following guidelines were followed in order to validate the original version of APFDQ into Turkish [9].

Firstly, forward- backward translations were made for cross-cultural adaptations. The original German version APFDQ was translated to Turkish by a native speaker, then a professional translator performed a backward translation, followed by an expert committee including the researchers evaluated the version of the APFDQ. This version was applied, then volunteers in order to detect if there is any misunderstanding. Finally, the Turkish version of the APFDQ was edited according to suggestions and used in patients.

Questionnaire

The APFDQ was based on the validated Australian Pelvic Floor Questionnaire which has four domains including bladder, bowel, support and sexual function [10–13]. There are completely newly developed sections in the APFDQ for risk factors and the course of childbirth. Participants fulfilled the childbirth domain at postpartum 6th week, which elucidate the route of delivery, emotional effect of birth and postpartum pain for patient.

Validity

Ten volunteers had completed the questionnaire and were interviewed by the researchers to find out if there were any misinterpretations. The version was also discussed in the study group and counseled to the experts on this topic.

Reliability

Internal consistency and test- retest analysis are used to establish reliability. For an adequate internal consistency, Cronbach's Alpha value should be more 0.7 and more.

The questionnaire was given to patients in weekly intervals during the third trimester, to constitute test- retest reliability. The interval was shorter than the usual period for reliability regarding the concern for maintaining the same conditions in pregnant patients. PABAK value was used to establish the degree of agreement and intraclass correlation coefficient (ICC) to demonstrate the agreement of the test- retest results of the individuals.

Reactivity "sensitivity to change"

The questionnaire was giving weekly two different times first during the third trimester, then again during postpartum at 6th week and 6th month.

Study population and data collection

The questionnaire was giving to 92 women attending routine visits in two tertiary clinics in Istanbul. Inclusion criterias were age between 18–40 years and having uncomplicated pregnancy. Exclusion criterias were inadequate Turkish language knowledge, having chronic diseases, neurological disorders, preeclampsia, gestational diabetes mellitus, or fetal abnormalities.

Sample size was calculated taking into account the previous studies, with a power of 80% and $\alpha = 0.05$ a score change of 1 in a domain (minimal important clinical difference) can be significantly detected from a sample size of $n = 50$ [12].

Analysis of data

The final version was validated according to COSMIN (The Consensus- based Standards for the selection of health Measurement Instruments) International guidelines [13].

Statistical Analysis

Numeric variables were expressed as the mean and standard deviation or as the median (minimum–maximum), depending on the distribution of the data. The normality was determined using the Shapiro-Wilk test. Internal consistency of the scale was assessed with Cronbach's alpha coefficient. Intra class correlation coefficient and Kappa along with PABAK (Prevalence adjusted Bias adjusted Kappa) were used for test-retest reliability. Hence some of the tables included sparse data, *i.e.* concordant cell frequencies were high and discordant frequencies were low, PABAK along with Kappa was reported. Effect sizes of the 6th week to after delivery and the 3rd trimester to after delivery was calculated by dividing the difference between the mean of measurements before and after delivery by the standard deviation of measurement before delivery (Δ/SD) for assessing the responsiveness of the scale. Comparisons of before and after delivery scores were also performed with Wilcoxon signed rank test.

Concurrent and construct validity was assessed with spearman correlation coefficient.

Interpretations of Kappa and PABAK values were performed according to the classification for the strength of agreement, which considers κ values of 1–0.81 to be almost

in perfect agreement, 0.80–0.61 to be in substantial agreement, 0.60–0.41 to be in moderate agreement, 0.40–0.21 to be in fair agreement, and < 0.20 to be in slight agreement. $p < 0.05$ was considered statistically significant.

RESULTS

A total of 92 women in the of third trimester pregnancy were included the study. Twelve were excluded due to failure to follow-up. The remaining 80 patients were interviewed during the third trimester, postpartum 6th week and postpartum 6th month. Forty-one (51.25%) patients had vaginal delivery and 39 (48.75%) patients had a cesarean section. Figure 1 shows the study course. Thirty-five (43.75%) women were primiparous and 56.25% were multiparous. The mean age of the women was 27.7 ± 5.5 years. The mean parity was 1.1 ± 1.1 . The mean body mass index was 26.32 ± 3.14 of the patient group. Socio-demographic characteristics of the patients were summarized in Table 1. Mean gravida of the patients was 2.3 ± 1.4 . Mean of the maximum weight of the babies delivered was 2332.3 ± 1626.1 grams. None of the patients had operative delivery. Obstetrics characteristics of the patients were summarized in Table 2. Prevalence for PFDs of the study population was shown in Table 3.

Internal consistency reliability

Cronbach's alpha value of domains were calculated and found to be over 0.7 points which is enough to show reliability of the questionnaire.

Test-retest reliability

PABAK values and ICC values were used to assess test-retest reliability and shown in Table 4. Therefore, while bladder

	Mean \pm SD
Age	27.7 \pm 5.5
BMI	28.6 \pm 4.8
Income status	
Low-income	26 (32.9%)
Middle-income	40 (50.6%)
High-income	13 (16.5%)
Chronic disease	
Yes	69 (87.3%)
No	10 (12.7%)
Previous abdominal surgery	
Yes	55 (69.6%)
No	24 (30.4%)

Mean \pm standard deviation was given for quantitative variables, whereas n (%) were given for qualitative ones

Gravida (mean \pm SD)	2.3 \pm 1.4
Parity (mean \pm SD)	1.1 \pm 1.1
Number of vaginal delivery (n, %)	41 (51.25%)
Number of cesarean delivery (n, %)	39 (48.75%)
Episiotomy (n,%)	11 (22.91%)
Mean birth wieght (mean \pm SD)	2332.3 \pm 1626.1

Mean \pm standard deviation was given for quantitative variables, whereas n (%) were given for qualitative ones

	Third trimester	Postpartum 6 th week	Postpartum 6 th month
Urinary incontinence n (%)	78 (98.73%)	72 (90%)	64 (80%)
Anal incontinence n (%)	23 (28.75%)	18 (22.5%)	14 (17.5%)
Genital prolapse n (%)	26 (32.5%)	34 (42.5%)	31 (38.75%)
Sexual symptoms n (%)	45 (56.25%)	62 (77.5%)	32 (40%)

Table 4. Test-retest reliability

	Cronbach's alpha	ICC	Pabak
Bladder	0.702	0.863	1.00
Bowel	0.744	0.714	0.90
Prolapse	0.701	0.735	0.54
Sexuality	0.706	0.626	0.67

Table 5. Reactivity

	3 rd trimester	6 th week	6 th month	ES1	p	ES2	p
Bladder	1.88 (0–5)	1.88 (0–4.58)	0.42 (0–3.75)	1.46	< 0.001	1.57	< 0.001
Bowel	1.29 (0–5.16)	0.97 (0–4.52)	0.97 (0–2.26)	0.5	< 0.001	0.41	0.003
Prolapse	0 (0–2.5)	0.6 (0–2.5)	1.25 (0–2.92)	-1.25	< 0.001	-2.03	< 0.001
Sexuality	1.67 (0–4.17)	0.9 (0–3.75)	0.5 (0–2.92)	0.77	0.005	0.4	0.003

Medians (range) were given; ES — Cohen's effect size was calculated by dividing the difference between the mean of measurements before and after delivery by the standard deviation of measurement before delivery (Δ/SD); ES1 — effect size of the third trimester to the 6th week after delivery; ES2 — effect size of after the 6th week to after the 6th month delivery; comparison between the third trimester and postpartum, p values are based on Wilcoxon signed-rank test

and bowel showed acceptable internal consistency along with good test-retest reliability; prolapse and sexuality had acceptable internal consistency along with good and moderate test-retest reliability, respectively.

Content validity

The rate of missing answers did not exceed 4% for any of the questions in the final questionnaire.

Construct validity

Patients' bladder scores of the questionnaire was found to be significantly correlated to UDI-6 (rho: 0.806, p: 0.000), also prolapse scores were correlated to POP-Q scores significantly (rho: 0.574, p: 0.000).

Reactivity and scoring system

Mean scores of the domains were statistically different between pregnant and postpartum patients indicating the questionnaire is reactive to the changes (p < 0.01) (Tab. 5).

DISCUSSION

Here in this study we found showing that the Turkish version of the APFDQ is a reliable tool for evaluating pelvic floor disorders in pregnancy and postpartum period. Also it is a reliable questionnaire that we could follow the changes in different situations. The study population had a higher ratio of patients with chronic diseases (87.3%). This might be explained by conducting the study in a tertiary center.

Pelvic floor dysfunction after birth is usually accepted as a "normal" situation that patients do not discuss with their healthcare professionals. So, it is underestimated and not well evaluated unless addressing the symptoms [14].

Questionnaires are accepted as a part of standard evaluation methods for pelvic floor disorders [15]. Pregnancy and delivery are well known factors for PFDs [16]. Yet there are not comprehensive questionnaires in the literature for pregnant and postpartum patients.

In the literature there are questionnaires which evaluates PFDs such as Pelvic Floor Disorders Inventory-20 (PFDI-20), Pelvic Floor Distress Inventory (PFIQ-7), Pelvic Floor Disorders Inventory-46 (PFDI-46), Pelvic Floor Distress Inventory (PFIQ-31), International Consultation on Incontinence- Vaginal Symptoms (ICIQ-VS), Australian Pelvic Floor Questionnaire (or Australian PFQ), Pelvic Floor Bother Questionnaire (PFBQ), electronic Personal Assessment Questionnaire ePAQ-PF, and Pelvic Floor Dysfunction (PFD) [17–19].

PFDI-46 and PFIQ-31 are very time consuming, so new shorter versions were established as PFDI-20 and PFIQ-7. However, the new versions do not cover all the aspects of the PFDs and quality of life [20–21]. ICIQ-VS does not contain bladder and bowel functions [22]. From the above mentioned questionnaires, ePAQ, FPFQ and PFBQ are the only ones that evaluate all these areas but there are not widely used in the literature [23, 24]. ePAQ is not commonly used because of a license obligation. PFBQ is only translated to four languages so far and questions were not well distributed. FPFQ seems to address all the areas as it is newly developed, and it has not been widely translated to other languages [25–26].

None of the questionnaires above except APFDQ were originally developed to postpartum patients. APFDQ is also designed to evaluate specific risk factors for PFDs in postpartum period.

It is important to detect these symptoms in the early period to prevent future advanced PFDs, and make an appropriate intervention. In this study we aimed to translate this questionnaire in order to detect PFDs in our population and reduce the adverse effect of PFDs to quality of life. Administering pelvic muscle training in the postpartum period (PFMT) is proven to improve pelvic floor function and quality of life (QOL) of the patients [27]. Although there are conflicting data in the literature, a recent randomised study showed that a two-tiered, self-selection approach had increased the pelvic floor function and QOL in women with or without incontinence. The two-tiered approach consists of an informative session about anatomy and physiology and then practical data about exercise was taught and a PFMT was constituted for home [27]. Cochrane review published in 2014 also suggests that PFMT could prevent incontinence for 6 months in continent women during pregnancy [28]. Also, women with urinary incontinence were found to benefit from PFMT up to 1 year after delivery [28]. Cochrane review published in 2017 suggested that if offered to continent women in early pregnancy, PFMT programme could reduce urinary incontinence in late pregnancy and postpartum period [29].

CONCLUSIONS

Linguistic validation is an important step in the validation process. In order to have a better understanding, translations were done by native speakers then it was controlled by the expert committee. At first, 10 volunteers were involved to the study and interviewed face to face in order to modify misunderstandings.

According to the results of this study, the Turkish version of APFDQ was a valid and reliable tool to assess pelvic floor disorders in the period of pregnancy and postpartum. The Turkish version of APFDQ could be used to evaluate the immediate status of the patients during pregnancy and postpartum or could be used to follow the changes according to the score changes. Discriminant validity showed a significant difference between the pregnancy and postpartum periods in all the subscales of the questionnaire. The Turkish version of APFDQ has high internal consistency, is reproducible and high construct validity, and can detect the degree of pelvic floor dysfunction. It has a high correlation with UDI 6 and moderate correlation with POP-Q.

The Turkish version of the self-administered APFDQ seems to be a reliable and valid instrument for evaluating PFDs symptoms severity and quality of life in Turkish speaking women.

Disclosure

All the authors state no financial disclosures or conflict of interest related to the content of this work.

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MODULE RISK FACTORS				RISK
Height <input type="text"/> <input type="text"/> <input type="text"/> cm	Weight <input type="text"/> <input type="text"/> <input type="text"/> kg	Weight before pregnancy For BMI <input type="text"/> <input type="text"/> <input type="text"/> kg	BMI <input type="text"/> <input type="text"/> . <input type="text"/>	<input type="checkbox"/> > 25
Age			<input type="text"/> <input type="text"/> years	<input type="checkbox"/> > 35
Are there any women in your family to whom you are related by blood who have urinary incontinence, fecal incontinence, or prolapse of the pelvic organs?		<input type="checkbox"/> no	<input type="checkbox"/> don't know	<input type="checkbox"/> yes
Do you smoke?		<input type="checkbox"/> no	<input type="checkbox"/> stopped	<input type="checkbox"/> yes
Can you voluntarily contract your pelvic floor?		<input type="checkbox"/> yes	<input type="checkbox"/> don't know	<input type="checkbox"/> no

Bladder function	0	1	2	3
1. How often do you urinate during the day? Pollakiuria	Every 3 hours	Every 2 hours	Once every hour	More often
2. How often do you wake up at night because you need to urinate? Nocturia		2x	3x	More than 3x
3. Do you lose urine in your sleep? Nocturnal enuresis	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
4. Is the urge to urinate so strong that you must immediately rush to the toilet? Strong urge to urinate	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
5. When you have a sudden strong urge to urinate, do you leak urine before you reach the toilet? Urge incontinence	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
6. Do you leak urine when coughing, sneezing, laughing, lifting or during sports? Stress incontinence	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
7. Is your urinary stream weak, slow or prolonged? Urinary stream	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
8. Do you feel that you can accurately assess how full your bladder is? Bladder estimate	Yes — always	Usually	Sometimes	No — never
9. Do you feel that you cannot completely empty your bladder? Residual urine	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
10. Do you need to squeeze to urinate? Squeeze	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
11. Do you wear panty liners or sanitary pads because of urine leakage? Pads	Never	Sometimes — only as prophylaxis	Often — during sports/during colds	Usually — every day
12. Do you limit the amount you drink to avoid leaking urine? Drinking patterns	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
13. Do you experience a burning or dragging sensation or pain when you urinate? Dysuria	Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
14. How often do you have urinary tract infections? UTI	Rarely or never	1–3x per year	4–12x per year	1x or more/month

Annex 1. The new version of the questionnaire*; Pelvic Floor Questionnaire for pregnant and post partum women

*This is a simple translation of the questionnaire. This version has not been validated in English



15. Does the involuntary loss of urine adversely affect your daily life? (e.g. sports activities, job, shopping, going out) QoL	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much
16. How much do your bladder symptoms bother you? Psychological stress from bladder symptoms	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much
Bowel function		0	1	1	2
1. How often do you have a bowel movement? Frequency		Every 3 days to once a day	More than 1x per day	Every 3 days or less often	less than once a week
2. What is the normal consistency of your stools? Consistency		soft or shaped	varying consistency	very hard	thin/mushy
Bowel function		0	1	2	3
3. Do you need to strain to have a bowel movement? Straining		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
4. Do you suffer from constipation? Constipation		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
5. Do you experience involuntary flatulence which you cannot suppress? Flatus incontinence		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
6. Do you experience an urge to defecate which you cannot suppress? Urge bowel incontinence		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
7. Do you find traces of fecal soiling on your underwear or pads? Stool smears		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
8. Do you experience accidental bowel leakage with loss of feces? Fecal incontinence		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
9. Do you have the feeling that you cannot completely empty your bowels? Bowel dysfunction		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
10. Do the symptoms adversely affect your daily life? (planning your day, sports activities, job, shopping, going out) QoL	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much
11. How much do your bowel symptoms bother you? Psychological stress from bowel symptoms	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much

→

Prolapse		0	1	2	3
1. Do you feel as though there is a foreign body in your vagina? Foreign body		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
2. Do you feel that your vagina or uterus may have dropped? Prolapse feeling		Never	Sometimes — less than once a week	Often — once a week or more	Usually — every day
3. Do you have the feeling that your vagina or uterus drops when you lift something, walk or run? Prolapse under stress		Not at all	A little	Quite a lot	Very much
4. Do these symptoms adversely affect your daily life? (e.g. sports activities, job, shopping, going out) QoL	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much
5. How much does prolapse bother you? Psychological stress from prolapse	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much

Sexuality				
Are you sexually active? Sexually active	<input type="checkbox"/> Not at all	<input type="checkbox"/> Rarely	<input type="checkbox"/> Regularly	
If you do not have sexual intercourse, why not? Abstinent because	<input type="checkbox"/> no partner	<input type="checkbox"/> partner has problems/ /is impotent	<input type="checkbox"/> don't get aroused/ /not interested	<input type="checkbox"/> Sex is unpleasant for me because
Have you had sexual experiences which distress you very much? Sexual trauma	<input type="checkbox"/> No		<input type="checkbox"/> Yes	
	0		1	
1. Does your vagina sufficiently self-lubricate during intercourse? Lubrication	Yes		No	
	0	1	2	3
2. How does your vagina feel during intercourse? Vaginal sensation	feel a lot	don't feel much	don't feel anything	painful
3. Do you think that your vagina is too slack or too wide? Vaginal width	No — never	Sometimes	Often	Always
4. Do you think that your vagina is too tight or too firm? Vaginismus	No — never	Sometimes	Often	Always
5. Do you experience pain during intercourse? Dyspareunia	No — never	Sometimes	Often	Always
	1		1	2
6. If you experience pain during intercourse, where is the pain sited?	at the beginning of the vagina		deep inside/in the pelvis	Both



		0	1	2	3
7. Do you have involuntary loss of urine or feces during sex? Coital incontinence		No — never	Sometimes	Often	Always
8. Do these symptoms adversely affect your sexuality? QoL	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much
9. How much do these symptoms bother you? Psychological stress because of sex	<input type="checkbox"/> Not applicable, I do not have symptoms	Not at all	A little	Quite a lot	Very much

Score (please leave these fields empty)			
Bladder function	Questions 1–16	Score <input type="text"/> <input type="text"/> / 48 = <input type="text"/> . <input type="text"/> <input type="text"/>	× 10 = <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Bowel function	Questions 1–11	Score <input type="text"/> <input type="text"/> / 31 = <input type="text"/> . <input type="text"/> <input type="text"/>	× 10 = <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Prolapse	Questions 1–5	Score <input type="text"/> <input type="text"/> / 15 = <input type="text"/> . <input type="text"/> <input type="text"/>	× 10 = <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Sexuality	Questions 1–9	Score <input type="text"/> <input type="text"/> / 24 = <input type="text"/> . <input type="text"/> <input type="text"/>	× 10 = <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Bladder score + bowel score + prolapse score + sex score =		<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Postpartum module				Risk
How many children have you born?	<input type="text"/> <input type="text"/>	How many births were ventouse (vacuum, suction cup)-assisted births?	<input type="text"/>	<input type="text"/>
How many were born by cesarean section?	<input type="text"/>	How many births were forceps-assisted births?	<input type="text"/>	<input type="text"/>
How heavy was your heaviest child at birth?	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> g		<input type="text"/>	<input type="text"/> > 4000g
Was the sphincter muscle, bowel or perineum injured during any of your births (3rd or 4th degree perineal tear)?	<input type="text"/> No		<input type="text"/>	<input type="text"/> Yes
Did you have pain postpartum in the area of the vagina, perineum or bowel/anus/rectum?	<input type="text"/> No		<input type="text"/>	<input type="text"/> Yes
Do you feel that you have since been able to process the birth pains or the pain experienced after the birth?	<input type="text"/> Yes	<input type="text"/> Largely	<input type="text"/> A little	<input type="text"/> No
Do you feel that you have since been able to process the fears you had during the birth?	<input type="text"/> Yes	<input type="text"/> Largely	<input type="text"/> A little	<input type="text"/> No

AUSTRALIAN PELVIC FLOOR QUESTIONNAIRE		Patient's Name:	
		Date of Birth: Date completed:	
<i>Please circle your most applicable answer. Consider your experience during the last month.</i>			
BLADDER FUNCTION (..... / 45)			
Q1. How many times do you pass urine in a day? 0 Up to 7 1 Between 8–10 2 Between 11–15 3 More than 15	Q2. How many times do you get up at night to pass urine? 0 0–1 1 2 2 3 3 More than 3 times	Q3. Do you wet the bed before you wake up at night? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Always — every night	
Q4. Do you need to rush/hurry to pass urine when you get the urge? 0 Can hold on 1 Occasionally must rush — less than once/week 2 Frequently must rush — once or more/week 3 Daily	Q5. Does urine leak when you rush or hurry to the toilet or can't you make it in time? 0 Not at all 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q6. Do you leak with coughing, sneezing, laughing or exercising? 0 Not at all 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	
Q7. Is your urinary stream (urine flow) weak, prolonged or slow? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q8. Do you have a feeling of incomplete bladder emptying? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q9. Do you need to strain to empty your bladder? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	
Q10. Do you have to wear pads because of urinary leakage? 0 None — Never 1 As a precaution 2 When exercising/during a cold 3 Daily	Q11. Do you limit your fluid intake to decrease urinary leakage? 0 Never 1 Before going out 2 Moderately 3 Always	Q12. Do you have frequent bladder infections? 0 No 1 1–3 per year 2 4–12 per year 3 More than one per month	
Q13. Do you have pain in your bladder or urethra when you empty your bladder? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q14. Does urine leakage affect your routine activities like recreation, socializing, sleeping, shopping etc? 0 Not at all 1 Slightly 2 Moderately 3 Greatly	Q15. How much does your bladder problem bother you? 0 Not at all 1 Slightly 2 Moderately 3 Greatly	
Other symptoms (haematuria, pain etc.)			
BOWEL FUNCTION (..... / 34)			
Q16. How often do you usually open your bowels? 0 Every other day or daily 1 Less than every 3 days 2 Less than once a week 3 More than once per day	Q17. How is the consistency of your usual stool? 0 Soft 1 Firm 2 Hard (pebbles) 3 Variable 4 Watery	Q18. Do you have to strain to empty your bowels? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	
Q19. Do you use laxatives to empty your bowels? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q20. Do you feel constipated? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q21. When you get wind or flatus, can you control it, or does wind leak? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	

Annex 2. The old version of the questionnaire →

AUSTRALIAN PELVIC FLOOR QUESTIONNAIRE			Patient's Name:		
			Date of Birth: Date completed:		
Q22. Do you get an overwhelming sense of urgency to empty bowels? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q23. Do you leak watery stool when you do not mean to? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q24. Do you leak normal stool when you do not mean to? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily			
Q25. Do you have a feeling of incomplete bowel emptying? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q26. Do you use finger pressure to help empty your bowel? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q27. How much does your bowel problem bother you? 0 Not at all 1 Slightly 2 Moderately 3 Greatly			
PROLAPSE SYMPTOMS (..... / 15)					
Q28. Do you have a sensation of tissue protrusion/lump/bulging in your vagina? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q29. Do you experience vaginal pressure or heaviness or a dragging sensation? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q30. Do you have to push back prolapse in order to void? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily			
Q31. Do you have to push back your prolapse to empty your bowels? 0 Never 1 Occasionally — less than once per week 2 Frequently — once or more per week 3 Daily	Q32. How much does your prolapse bother you? 0 Not at all 1 Slightly 2 Moderately 3 Greatly	Other Symptoms: (problems: walking/sitting, pain, vaginal bleeding)			
SEXUAL FUNCTION (..... / 21)					
Q33. Are you sexually active? <input type="checkbox"/> No <input type="checkbox"/> Less than once per week <input type="checkbox"/> Once or more per week <input type="checkbox"/> Daily or most days <i>If you are not sexually active, please continue to answer questions 34 & 42.</i>	Q34. If you are not sexually active, please tell us why? <input type="checkbox"/> Do not have a partner <input type="checkbox"/> I am not interested <input type="checkbox"/> My partner is unable <input type="checkbox"/> Vaginal dryness <input type="checkbox"/> Too painful <input type="checkbox"/> Embarrassment due to the prolapse/ /incontinence <input type="checkbox"/> Other reasons:	Q35. Do you have sufficient vaginal lubrication during intercourse? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Q36. During intercourse vaginal sensation is: 0 Normal/pleasant 1 Minimal 2 Painful 3 None	Q37. Do you feel that your vagina is too loose or lax? 0 Never 1 Occasionally 2 Frequently 3 Always	Q38. Do you feel that your vagina is too tight? 0 Never 1 Occasionally 2 Frequently 3 Always			
Q39. Do you experience pain with sexual intercourse? 0 Never 1 Occasionally 2 Frequently 3 Always	Q40. Where does the pain during intercourse occur? 0 Not applicable, I do not have pain 1 At the entrance to the vagina 2 Deep inside, in the pelvis 3 Both at the entrance & in the pelvis	Q41. Do you leak urine during sexual intercourse? 0 Never 1 Occasionally 2 Frequently 3 Always			
Q42. How much do these sexual issues bother you? <input type="checkbox"/> Not applicable 0 Not at all 1 Slightly 2 Moderately 3 Greatly	Q43. Other symptoms? (faecal incontinence, vaginismus etc)				