Supplemental Digital Content 1.

The Groningen Defaecation & Faecal Continence questionnaire

Instructions:

- 1. Answer the questions by ticking the box next to your answer. Please tick just <u>one</u> answer to each question (unless you are invited to give more than one answer).
- Although some of the questions may seem very similar, each one gives us important information. Some of the questions might relate to problems you do not have, but we want to know this too. Please answer every question (unless you are specifically told to proceed to another question).
- 3. There are no right or wrong answers. If you are unsure about how to answer a question, try to choose the answer that comes closest to your situation.
- 4. If you have any comments about the questionnaire, or if there is anything else you would like to say but which has not been covered by the questions, you can add your own comments at the end of the questionnaire.
- 5. Your answers will be treated in the strictest confidence.



Personal details

Surnai	me			
First n	ame			
Date o	of birth			
Height	t (cm)			
Weight (kg)				
0.1	What	is your gend	der?	
		Male		
		Female		
0.2	What	is your age	in years'	?
0.3	In whi	ch province	do you	live?
		Drenthe		Noord-Brabant
		Flevoland		Noord-Holland
		Friesland		Overijssel
		Gelderland		Utrecht
		Groningen		Zeeland
		Limburg		Zuid-Holland
0.4	How b	oig is the tow	vn or vill:	age in which you live?
		I live in a vi		
		I live in a s	mall tow	n with fewer than 50,000 inhabitants
		I live in a m	nedium-s	sized town with 50,000 to 100,000 inhabitants
		I live in a la	rge towi	n with more than 100,000 inhabitants



0.5	wna	t is your nighest level of education?						
		Primary school education						
		Level 1 or 2 BTEC or equivalent vocational qualification						
		GCSEs with fewer than 5 grade A*-C or equivalent						
		Level 3 or 4 BTEC or equivalent vocational qualification / apprenticeship						
		5+ GCSEs grade A*-C or equivalent						
		3+ A-Levels or equivalent						
		Level 5 BTEC or equivalent vocational qualification / Foundation Degree						
		University education						
		Other, namely:						
0.6	Wha	t is/was your job or profession?						
0.7	Are you still working?							
		Yes, I work hours per week						
		No, I am no longer in paid employment, because:						
		I spend my time doing housework and/or looking after the children						
		I am retired or have taken early retirement						
		I am at school, college or university						
		I do not have a paid job due to problems with my bowels and/or pelvic						
		floor						
		I do not have a paid job due to other health problems						
		I do not have a paid job for other reasons (e.g. I cannot find one, I do						
		voluntary work, etc.)						
8.0	In ge	eneral, how would you describe your health in relation to the ability to hold						
	and p	and pass stools?						
		Very good						
		Good						
		Reasonable						
		Poor						
		Very poor						



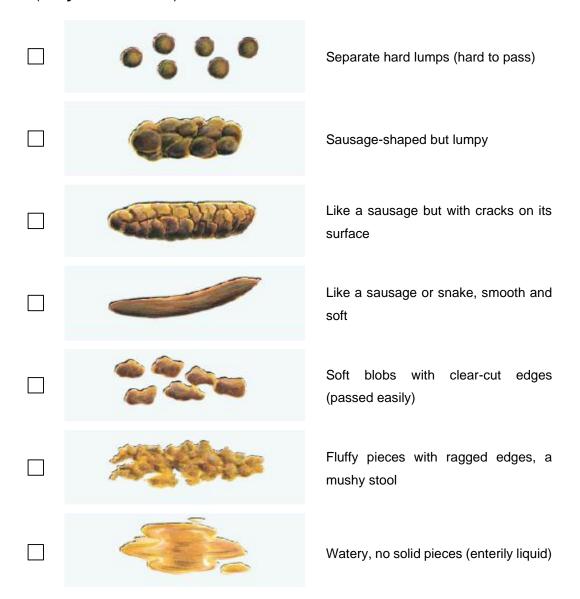
Category 1: Defecation pattern

The following questions refer to your defecation pattern over the past six months.

1.1	On a	n average, how often do you empty your bowels? (Only tick one box)					
		Less than once a month					
		Less than once a week					
		Once a week					
		Twice a week					
		Once every two days					
		Once or twice a day					
		Three to five times a day					
		More than five times a day					



1.2 In general, what did your faeces look like (which type do you have most often)?(Only tick one box)





Category 2: Constipation

The following questions are about the difficulty you have had emptying your bowels over the past six months.

being able to pass all your stools or having to strain hard)? Yes No 2.1.1 If so, how long have you had this problem? O-1 year 1 to 5 years 5 to 10 years 10 to 20 years Longer than 20 years How often did you have to strain hard to empty your bowels?					
No 2.1.1 If so, how long have you had this problem? O-1 year 1 to 5 years 5 to 10 years 10 to 20 years Longer than 20 years					
2.1.1 If so, how long have you had this problem? O-1 year 1 to 5 years 5 to 10 years 10 to 20 years Longer than 20 years					
 0-1 year 1 to 5 years 5 to 10 years 10 to 20 years Longer than 20 years 					
 ☐ 1 to 5 years ☐ 5 to 10 years ☐ 10 to 20 years ☐ Longer than 20 years 					
□ 5 to 10 years□ 10 to 20 years□ Longer than 20 years					
☐ 10 to 20 years ☐ Longer than 20 years					
Longer than 20 years					
How often did you have to strain hard to empty your bowels?					
Never					
Less than once a month					
Several times a month					
Several times a week					
Every day					
2.3 On average, how long did you have to strain while emptying y	our bowels?				
Less than 5 minutes					
Less than 5 minutes 5 to 10 minutes					
<u> </u>					
5 to 10 minutes					



2.4		w often did you have trouble passing stools because it left as it there was						
	block							
		Never						
		Less than once a month						
		Several times a month						
		Several times a week						
		Every day						
2.5	How	often did it feel as if you had not completely emptied your bowels after						
	passi	ng stools?						
		Never						
		Less than once a month						
		Several times a month						
		Several times a week						
		Every day						
2.6	How	often did you manage not to pass stools after feeling the urge to empty						
	your bowels?							
		I always manage						
		One to three times a day						
		Four to six times a day						
		Seven to nine times a day						
		More than nine times a day						
2.7	How	often did you have to return to the toilet within one hour of emptying your						
	bowe	s to empty them again?						
		Never						
		Less than once a month						
		Several times a month						
		Several times a week						
		Every day						



2.8	How (often did you nave pain in your anus while emptying your bowels?					
		Never					
		Less than once a month					
		Several times a month					
		Several times a week					
		Every day					
2.9	Have	you suffered from abdominal bloating?					
		Yes					
		No					
2.9.1	If so,	to what extent? (You may tick more than one answer)					
		I only felt it myself					
		Other people could also see it					
		It made me lose my appetite or feel sick					
		It made me vomit					
2.10	How	low often did you have abdominal pain or cramps?					
		Never					
		Less than once a month					
		Several times a month					
		Several times a week					
		Every day					
**							
•		ot experience abdominal pain or cramps during the past six months,					
pleas	e prod	eed to question 3.1.					
2.10.1	•	did experience abdominal pain or cramps, was this only during your					
	mens	trual period?					
		No					
		Yes					
		Not applicable because I am post-menopausal					
		Not applicable because I am a man					



2.10.2 If you did experience abdominal pain or cramps, did they disappear or recede						
after y	after you had emptied your bowels?					
	Never or rarely					
	Sometimes					
	Often					
	Usually					
	Always					
2.10.3 Do you have go to the toilet to empty your bowels more or less frequently since						
the ab	odominal pain or cramps started?					
	Yes, I go to the toilet more frequently than before					
	Yes, I go to the toilet less frequently than before					
	No, I go to the toilet just as often as before					
2.10.4 Has th	ne consistency of your stools changed since the abdominal pain or cramps					
starte	d? (Have they become harder or softer, for example)					
	Yes, my stools are harder					
	Yes, my stools are softer					
	No, the consistency has not changed					



Category 3: Constipation-related questions

The following questions relate to your diet and any remedies you may have used to help you empty your bowels during the past six months.

3.1	Do you drink at least 1.5 litres of fluids a day (10 x 150ml-cups/glasses)?						
		Yes					
		No					
3.2	Do y	ou eat at least 2 pieces of fruit a day?					
		Yes					
		No					
3.3	Do y	ou eat at least 3 tablespoons of vegetables a day?					
		Yes					
		No					
3.4	Do y	ou eat at least 3 slices of brown or wholemeal bread a day?					
		Yes					
		No					
3.5	How	often do you take laxatives to soften your stools/make it easier to empty					
	your	bowels?					
		Never					
		Less than once a month					
		Several times a month					
		Several times a week					
		Once a day					
		Several times a day					



5.5. I	•		do you take and now much?					
	1. Me	dicine:			_	_ml/g		
			Or per week:		-			
	2. Me	dicine:	How often per day:		Dosage:	_ ml/g		
			Or per week:		-			
	3. Me	dicine:	How often per day:	Dosage:	ml/g			
			Or per week:		-	_ 0		
3.6	Do yo	ou eat a special diet or food Yes, I eat /drink: No	•	ols?				
3.7	Do yo	ou use an enema (= injectir	ng a small amount of	a med	licine into the	anus)		
	•	p pass stools?				,		
		Yes, medicine:	dosa	ige:	ml/cc			
		No						
3.7.1	If so,	how often?						
		Less than once a month						
		Several times a month						
		Several times a week						
		Once a day						
		Several times a day						



ა.ი	ро ус	ou imgate your rectum with lukewarm water (via the ands or by means or					
	an an	tegrade colonic enema) to help you empty your bowels?					
		Yes, amount: ml/cc, with (if applicable):					
		No					
3.8.1	If so,	how often did you irrigate?					
		Less than once a month					
		Several times a month					
		Several times a week					
		Once a day					
		Several times a day					
3.9	Do yo	ou ever use your fingers or hands to help pass stools? (You may tick more					
	than	than one answer)					
		Yes, I press on my abdomen with my hands					
		Yes, I use my finger to press between my buttocks, just in front of the					
		anus					
		Yes, I use my finger to press between my buttocks, just behind the anus					
		Yes, I use my fingers to remove stools from my anus					
		Yes, but in another way, namely:					
		No					
3.9.1	If so,	how often do you use your fingers or hands when passing stools?					
		Less than once a month					
		Several times a month					
		Several times a week					
		Every day					



3.10	ir you	you had difficulty passing stools, have you ever talked to anyone about it?							
	(You may tick more than one answer)								
	☐ Not applicable, I do not have difficulty passing stools								
		Yes, with family or friends							
		Yes, with my GP							
		Yes, with a medical specialist							
		Yes, with someone else, namely:							
		No							



Category 4: Faecal continence

The following questions are about the accidental passage of stools during <u>the past six months</u>.

4.1	How	often d	lid you	accidentally	/ pass	small	amounts	of	faeces?	(i.e.
	staine	ed/soiled your underpants) Never								
		Less tha	an once	a month						
		Several	times a	a month						
		Several	times a	a week						
		Once a	day							
		Several	times a	a day						
4.1.1	If you	acciden	itally pa	ssed small	amount	s of fae	ces, wher	dic	this hap	pen?
	(You	ou may tick more than one answer)								
		When I	had dia	ırrhoea						
		When I	was de	sperate for th	e toilet					
		During p	physica	I activity/exer	tion					
		For no o	clear re	ason						
4.2	How	often did	d you a	ccidentally p	ass larç	ge amo	unts of so	lid 1	faeces wi	thout
	havin	g felt an ı	urge (i.e	e. without fee	ling the	need fo	r the toilet)	?		
		Never								
		Less tha	an once	a month						
		Several	times a	a month						
		Several	times a	a week						
		Once a	day							
		Several	times a	a day						



⊤. ∪	reach the toilet in time?		
		Never	
		Less than once a month	
		Several times a month	
		Several times a week	
		Once a day	
		Several times a day	
4.4	How	often did you accidentally pass watery stools (diarrhoea)?	
		Never	
		Less than once a month	
		Several times a month	
		Several times a week	
		Once a day	
		Several times a day	
4.5	.5 How often did you accidentally pass wind?		
		Never	
		Less than once a month	
		Several times a month	
		Several times a week	
		Once a day	
		Several times a day	
If yo	u have	not accidentally passed liquid or solid stools during the past six	
mon	ths, ple	ease proceed to question 5.1.	
4.6	If you	have accidentally passed faeces, how much was this on average?	
		A tiny amount, about the size of a coin	
		Enough to make me change my underpants	



4.7	If you accidentally passed faeces, when did this happen?		
		Only while I was awake	
		Only while I was asleep	
		While I was awake and while I was asleep	
4.8	How	often did you use panty liners or incontinence pads to help when you	
	accid	entally passed faeces?	
		Never	
		Less than once a month	
		Several times a month	
		Several times a week	
		Once a day	
		Several times a day	
4.9	How	often did you rearrange your daily programme because of accidentally	
	passii	ng faeces (e.g. stayed at home, cancelled an appointment, changed your	
	diet)?		
		Never	
		Less than once a month	
		Several times a month	
		Several times a week	
		Once a day	
		Several times a day	
4.10	Have	you ever accidentally passed faeces shortly after emptying your bowels	
	on the	e toilet?	
		Yes	
		No	



4.11	Do you use an anti-diarrnoea medicine to solidity your stools?					
		Never				
		Less than once a month				
		Several times a month				
		Several times a week				
		Once a day				
		Several times a day				
4.11.1	I If you	use an anti-diarrhoea med	licine, which one do you us	e and how much?		
	1. Me	dicine:	How often per day:	Dosage: ml/g		
			Or per week:			
	2. Me	dicine:	How often per day:	Dosage: ml/g		
			Or per week:			
	3. Me	dicine:	How often per day:	Dosage: ml/g		
			Or per week:			
4.12	Do yo	Do you eat a diet or eat particular foods to control accidental passage of stools?				
	Yes, I eat/drink:					
		No				
4.13	Do you irrigate your bowels with lukewarm water to control accidental passage					
	of stools?					
		Yes, amount: ml/cc, with (if applicable):				
		No				
4.14	Have you ever talked to anyone about losing control of your bowels? (You may					
	tick more than one answer)					
		Yes, with family or friends				
		Yes, with my GP				
		Yes, with a medical speci	alist			
		Yes, with someone else,	namely:			



Category 5: Urge

The following questions are about your urge to go the toilet over $\underline{\text{the past six}}$ $\underline{\text{months}}$.

5.1	Did y	ou feel the urge to empty your bowels before you went to the toilet?
		Yes
		Sometimes
		No
5.2	On a	verage, how long were you able to control your bowels once you had felt
	the u	rge to go to the toilet?
		I was unable to control my bowels
		One minute or less (I always had to go to the toilet immediately)
		Five minutes at the most
		Fifteen minutes at the most
		I never had to hurry
5.3	How	often did you have to hurry to get to the toilet in time, to prevent yourself
	accid	entally passing stools?
		Never
		Less than once a month
		Several times a month
		Several times a week
		Once a day
- 4	14/1	
5.4		n you felt the urge to go to the toilet, could you tell the difference between
	flatul	ence, diarrhoea and solid/hard stools?
		Yes
		With difficulty
		No



Category 6: Urinary incontinence

The following questions concern bladder control over the past six months.

6.1	On av	verage, how often did you urinate?		
		Less than three times a day		
		Three to seven times a day		
		More than seven times a day		
6.2	When	you urinated, were you able to empty your bladder in one go?		
		Yes, the urine stream was <u>never</u> interrupted		
		No, the urine sometimes came in bursts (stopped and started)		
		No, the urine <u>always</u> came in bursts (stopped and started)		
6.3	Wher	you urinated, did you have to strain?		
		Yes, I always had to strain while urinating		
		Yes, I sometimes had to strain while urinating		
		No, I never had to strain while urinating		
6.4	How often did you accidentally lose urine?			
		Never		
		About once a week or less		
		Two to three times a week		
		About once a day		
		Several times a day		
		Continuously		
6.5	How	much urine did you lose on average (irrespective of whether you used		
	pads)	?		
		None		
		A bit (a few drops)		
		Quite a lot (wet underpants)		
		A lot (visible wet patches)		
		ž.		



0.0	vvne	n did you accidentally lose urine? (You may tick more than one answer)
		Never, I did not lose any urine
		Before I could reach the toilet
		Whenever I sneezed or coughed
		While I was asleep
		During physical activity/exertion
		When I got dressed again after urinating
		For no clear reason
		Continuously
6.7	How	often did you need to go to the toilet during the night?
		Never/rarely
		Once or twice a week
		Three to six times a week
		Every night
		Several times a night
6.8	How	often did you feel as if you had a bladder infection in the past 6 months?
		Never
		Once
		Several times
6.9	How	often have you been treated for a bladder infection in the past 6 months?
		Never
		Once
		Several times



Category 7: Obstetric and gynaecological history

The following questions only apply to women. If you are a man, please proceed to question 8.1.

7.1	Have you ever been through childbirth (including caesarean section)?
	Yes
	□ No
7.1.1	If so, how many times?
7.2	How many of these were natural (vaginal) deliveries?
If you	have never experienced a vaginal delivery, please proceed to question 7.7.
7.3	How long did you have to push during your longest delivery?
	Less than one hour
	One to two hours
	☐ Longer than two hours
7.4	Were obstetrical instruments used during any of these vaginal deliveries?
	Yes
	□ No
7.4.1	If so, which instruments were used? (You may tick more than one answer)
	Forceps
	A vacuum extractor
	Other, namely

7.5



Did yo	ou nee	ed an incision in the perineum (episiotomy) or did you rupture during a
	vagin	al delivery, to the extent that the pelvic floor muscles around your anus
	were	affected?
		Yes
		No
7.5.1	If so,	what happened? (You may tick more than one answer)
		I ruptured
		I had an incision in the perineum (episiotomy)
		Other, namely
7.6	What	was the weight of your heaviest baby?
		grams
7.7	Has y	our uterus been removed (a hysterectomy)?
		Yes, via the vagina (vaginal)
		Yes, via the abdomen (abdominal)
		No
7.8	When	you are emptying your bowels, does it ever feel as if something is hanging
	out or	descending through your vagina?
		Yes
		No



Category 8: Medical history

The following questions relate to conditions or operations that may affect your bowel control.

8.1	Have	you ever undergone one of the following surgical procedures that may
0.1		
	aneci	your bowel control? (You may tick more than one answer)
		No, I have never had an operation on my bowels, anus or prostate
		Removal of a section of bowel, after which the remaining sections were
		sutured together
		Operation on a fistula in the anal cleft close to the anus (perianal fistula)
		Operation on the anal sphincter
		Operation for haemorrhoids
		Operation on the prostate
		Other, namely:
	Proce	dure to repair a hereditary condition, such as:
		Anal atresia or congenital anorectal malformation
		Hirschsprung's disease
		Sacrococcygeal teratoma
8.2	Do yo	u have (or have you had) a stoma to remove faeces from your bowel?
		Yes, a colostomy
		Yes, an ileostomy
		No
8.3 Do you ever have blood and/or mucous in your stools?		u ever have blood and/or mucous in your stools?
		Yes
		No
8.4	Науд	you ever had an injury to your anus, apart from during childbirth or an
J. T		
	opera	
		Yes, namely:
		No



8.5	Have you ever had, or are you still experiencing the after-effects of, one of the					
	following medical conditions? (You may tick more than one answer)					
		I have never had any of the co	onditions listed below			
		Crohn's disease or colitis ulce	erosa (inflammation of the colon)			
		Irritable bowel syndrome				
		Prolapse of the rectum				
		Diabetes mellitus				
		Cerebral haemorrhage or infarction (stroke)				
		Another neurological conditions (e.g. paraplegia, multiple sclerosis)				
		Slow transit constipation				
	Hereditary conditions such as:					
		Anal atresia or congenital anorectal malformation				
		Hirschsprung's disease				
		Sacrococcygeal syndrome				
		Spina bifida				
		Other, namely:				
8.6	Does	one of the medical conditions	you have ticked occur in your family?			
		Yes				
		No				
		Not applicable				
8.6.1	If so, which conditions occur in which members of your family?					
	Condition:		Relative:			
	Condition:		Relative:			
	Condi	ition:	Relative:			
	Condi	ition:	Relative:			



8.7	7 Which medicines do you take at the moment (you do not need to mer					
	laxatives and anti-diarrhoea treatments mentioned previously)?					
	I do not take any other medication.					
	☐ I take:					
	1. Medicine:	How often per day:	_ Dosage ml/g			
	2. Medicine:	How often per day:	_ Dosage ml/g			
	3. Medicine:	How often per day:	_ Dosage ml/g			
	4. Medicine:	How often per day:	_ Dosage ml/g			
	5. Medicine:	How often per day:	_ Dosage ml/g			
	6. Medicine:	How often per day:	_ Dosage ml/g			

You have come to the end of the questionnaire.

Thank you very much for taking the time to answer these questions.

If there is anything else you would like to say, or if there is something you feel was not covered or not covered sufficiently by this questionnaire, please use the space below to leave your comments.

