Guide for the Use of the

Prosthesis

Evaluation

Questionnaire



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The PEQ is composed of 9 validated scales that are each comprised of multiple questions, and there are a number of additional individual questions. The scales have been validated for internal consistency and temporal stability and are scored as a unit. The scales are not dependent on each other, so it is reasonable to use only the scales that are pertinent to your research question. The PEQ does not include standard demographic questions you may also wish to ask such as level of amputation, years since amputation, age, cause of amputation, etc.

Most questions in the PEQ use a visual analog scale format. Each visual analog scale is scored as a continuous numerical variable measured as the distance in millimeters from the left endpoint of the line to the point at which the respondent's mark crosses the line. Each line is 100 mm long and is always measured from the left (0-100). The questions are all worded so that a higher number (toward the right) will correspond with a more positive response. Take care in copying the forms to assure that photographic reduction or enlargement has not occurred!

This guide contains coding instructions for all the questions. Note that the questions that offer the option of making a check mark to indicate that the question is not applicable to the respondent are sometimes coded "100" and sometimes "nr (no response)". Follow the guide for each question. Question F, on page 11, is provided for the respondent's own reference and does not need to be coded. Any question that is left blank is scored "nr" and treated as missing.

To calculate any of the scale scores, compute the average (arithmetic mean) of all the questions which make up that particular scale (see table below) and which the respondent(s) answered. If an individual only answered 5 questions of a 6-item scale, be sure you divide by 5 when calculating their mean. At least half the questions of a scale should be answered with a number score not "nr" for the scale to be valid (round up if the number of items is odd).

Questions for each scale by page number and question letter Validated Scale Name 13A, 13B, 13C, 13D, 14E, 14F, 14G, 14H Ambulation (AM) Appearance (AP) 3J, 3M, 3N, 4O, 4P Frustration (FR) 10B, 10C 10A, 11D, 11E, 11G, 12H Perceived Response (PR) Residual Limb Health (RL) 4Q, 4R, 4S, 5T, 5U, 5V Social Burden (SB) 12I, 12J, 12K 3K. 3L Sounds (SO) Utility (UT) 1B, 1C, 1D, 2E, 2F, 2G, 2H, 2I Well Being (WB) 16C, 16D

The PEQ Scales

The questionnaire is divided into Groups, or topical sections, for ease of looking at similar issues at one time. The items in a section include different scales. The user should take care when computing scale scores to identify the correct questions for each scale. There are also <u>individual</u> questions in the PEQ which should not be combined into scale scores. In the code book these are listed as satisfaction, pain, transfer, prosthetic care, self efficacy, and importance questions. They are all individual items.

If you plan use the PEQ or if you have suggestions for improvement please let us know. We will do our best to answer any questions you may have about using the PEQ. Please e-mail to peq@prs-research.org or FAX to (USA) (206) 903-8141. The PEQ may be used free of charge, however, all portions are copyrighted by Prosthetics Research Study. Use of any part of the PEQ must be accompanied by appropriate acknowledgement of Prosthetics Research Study. Thank you.

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Coding of All Questions in the PEQ

Questions about Your Prosthesis

Page/ Item	Scale or Single Question	Variable Name	Question "Over the past four weeks,"	Scoring code
1A	Satisfaction Question	SAhapypros	rate how happy you have been with your current prosthesis.	0-100
1B	Utility Scale	UTfit	rate the fit of your prosthesis.	0-100
1C	Utility Scale	UTweight	rate the weight of your prosthesis.	0-100
1D	Utility Scale	UTstand	rate your comfort while standing when using your prosthesis.	0-100
2E	Utility Scale	UTsit	rate your comfort while sitting when using your prosthesis.	0-100
2F	Utility Scale	UTbalance	rate how often you felt off balance while using your prosthesis.	0-100
2G	Utility Scale	UTenergy	rate how much energy it took to use your prosthesis for as long as you needed it.	0-100
2Н	Utility Scale	UTfeel	rate the feel (such as the temperature and texture_ of the prosthesis (sock, liner, socket) on your residual limb (stump).	0-100
2I	Utility Scale	UTdon	rate the ease of putting on (donning) your prosthesis.	0-100
3J	Appearance Scale	APproslook	rate how your prosthesis has looked.	0-100
3K	Sounds Scale	SOfreqsoun	rate how often your prosthesis made squeaking, clicking, or belching sounds.	0-100
3L	Sounds Scale	SObotsoun	If it made any sounds in the past four weeks, rate how bothersome these sounds were to you Or check It made no sounds.	0-100 If checked score 100
3M	Appearance Scale	APdamagclo	rate the damage done to your clothing by your prosthesis.	0-100
3N	Appearance Scale	APdamagcov	rate the damage done to your prosthesis cover. — or check There is no cover on my prosthesis.	0-100 if checked score as "nr" (no response)
4O	Appearance Scale	APshoechoi	rate your ability to wear the shoes (different heights, styles) you prefer.	0-100
4P	Appearance Scale	APclothchoi	rate how limited your choice of clothing was because of your prosthesis.	0-100
4Q	Residual Limb Health Scale	RLsweat	rate how much you sweat inside your prosthesis (in the sock, liner, socket).	0-100
4R	Residual Limb Health Scale	RLsmell	rate how smelly your prosthesis was at its worst.	0-100
4S	Residual Limb Health Scale	RLswollen	rate how much of the time your residual limb was swollen to the point of changing the fit of your prosthesis.	0-100
5T	Residual Limb Health Scale	RLrash	rate any rash(es) that you got on your residual limb. — Or check 1 had no rashes on my residual limb in the last month.	0-100 if checked score 100
5U	Residual Limb Health Scale	RLhair	rate any ingrown hairs (pimples) that were on your residual limb. — Or check 1 ad no ingrown hairs on my residual limb in the last month.	score 100

5V	Residual Limb	RLsore	rate any blisters or sores that you got on	0-100 if checked
	Health Scale		your residual limb. — Or check 1 had no	score 100
			blisters or sores on my residual limb in the	
			last month.	

Questio	ons about Specific I	Bodily Sensations	5	
Page/	Scale or Single	Variable Name	Question "Over the past four weeks,"	Scoring code
Item	Question			
6	Pain Question	PAfrephsen	rate how often you have been aware of	a=0
			non-painful sensations in your phantom	b=1
			limb.	c=2
			a. never	d=3
			b. only once or twice	e-4
			c. a few times (about once/week)	f=5
			d fairly often (2/3 times/week)	g=6
			e. very often (4-6 times/week)	
			f. several times a day	
			g. all the time or almost all the time.	
6B	Pain Question	PAintphsen	If you had non-painful sensations in your	0-100
			phantom limb during the past month, rate	If checked
			how intense they were on average. Or	score as "nr"
			check I did not have non-painful	(no response)
			sensations in my phantom limb.	
6C	Pain Question	PAbotphsen	how bothersome were these	0-100
			sensations in your phantom limb?	If checked
			Or check 1 did not have non-painful	score as "nr"
			sensations in my phantom limb.	(no response)
7D	Pain Question	PAfrephpa	rate how often you had pain in your	a=0
			phantom limb.	b=1
			a. never	c=2
			b. only once or twice	d=3
			c. a few times (about once/week)	e-4
			d fairly often (2/3 times/week)	f=5
			e. very often (4-6 times/week)	g=6
			f. several times a day	
			g. all the time or almost all the time.	
7E	Pain Question	PAdurphpa	How long does your phantom limb pain	a=0
			usually last?	b=1
			a. 1 have none	c=2
			b. a few seconds	d=3
			c. a few minutes	e-4
			d. several minutes to an hour	f=5
			e. several hours	g=6
			f. a day or two	
			g. more than two days	
7F	Pain Question	PAintphpa	If you had any pain in your phantom limb	0-100
			during the past month, rate how intense it	If checked
			was on average. Or check I did not have	score as "nr"
			any pain in my phantom limb.	(no response)
7G	Pain Question	PAbotphpa	how bothersome was the pain in your	0-100
			phantom limb? Or check 1 did not have	If checked
			any pain in my phantom limb.	score as "nr"

8H	Doin Overtica	DA frontes	note how often you had noin in vo	2-0
8H	Pain Question	PAfrerlpa	rate how often you had pain in your	a=0 b=1
			residual limb.	
			a. never	c=2
			b. only once or twice	d=3
			c. a few times (about once/week)	e-4
			d fairly often (2/3 times/week)	f=5
			e. very often (4-6 times/week)	9=6
			f. several times a day	
			g. all the time or almost all the time	
8I	Pain Question	PAintrlpa	If you had any pain in your residual limb	0-100
			during the past month, rate how intense it	If checked
			was on average. Or check I did not have	score as "nr"
			any pain in my residual limb.	(no response)
				1 /
8J	Pain Question	PAbotrlpa	how bothersome was the pain in your	0-100
		1	residual limb? Or check I did not have	If checked
			any pain in my residual limb.	score as "nr"
			any pain in my residual inne.	(no-response)
8K	Pain Question	PAfreolpa	rate how often you had pain in your	a=0
OIX	am Question	Trincoipa	other leg or foot.	b=l
			a. never	c=2
			b. only once or twice	d=3
			The state of the	
			c. a few times (about once/week)	e=4
			d fairly often (2/3 times/week)	f=5
			e. very often (4-6 times/week)	g=6
			f. several times a day	
			g. all the time or almost all the time	0.400
9L	Pain Question	PAintolpa	If you had any pain in your other leg or	0-100
			foot during the past month, rate how	If checked
			intense it was on average. Or check I had	score as "nr"
			no pain in my other leg or foot.	(no-response)
9M	Pain Question	PAbotolpa	how bothersome was the pain in your	0-100
			other leg or foot? Or check I had no pain	If checked
			in my other leg or foot.	score as "nr"
				(no-response)
9N	Pain Question	PAfrebapa	rate how often you experienced back	a=0
		_	pain	b=1
			a. never	c=2
			b. only once or twice	d=3
			c. a few times (about once/week)	e-4
			d fairly often (2/3 times/week)	f=5
			e. very often (4-6 times/week)	g=6
			f. several times a day	5-0
			g. all the time or almost all the time	
90	Pain Question	PAintbapa	If you had any back pain during the past	0-100
	1 am Question	1 / Milituapa	month, rate how intense it was on	If checked
			average. Or check I had no back pain.	score as "nr"
			average. Of check I had no back pain.	
10D	Doin Ossasia	DAhadhar	have both anarone de 1 1 1 2 0	(no-response)
10P	Pain Question	PAbotbapa	how bothersome was the back pain?	0-100
			Or check I had no back pain.	If checked
				score as "nr"
				(no-response)

Questions about Social and Emotional Aspects of Using a Prosthesis

Page/ Item	Scale or Single Question	Variable Name	Question "Over the past four weeks,"	Scoring code
10A	Perceived Response Scale	PRavoidoth	rate how often the desire to avoid stranger's reactions to your prosthesis made you avoid doing something you otherwise would have done.	0-100
10B	Frustration Scale	FRfreqfrus	rate how frequently you were frustrated with your prosthesis.	0-100
10C	Frustration Scale	FRmostfrus	If you were frustrated with your prosthesis at any time over the pat month, think of the most frustrating event and rate how you felt at that time. Or check 1 have not been frustrated with my prosthesis.	0-100 if checked score 100
11D	Perceived Response Scale	PRpartresp	rate how your partner has responded to your prosthesis. Or check 1 don't have a partner.	0-100 If checked score as "nr" (no- response)
11E	Perceived Response Scale	PRrelafct	rate how this response has affected your relationship. Or check 1 don't have a partner.	0-100 If checked score as "nr" (non-response)
11F	This question prepares for following questions by having the respondent identify two particular people in their mind, giving minimal identification.		Think of two close family members (other than your partner) and write down their relationship to you, like mother or son. Or check 1 don't have any close family members.	This question is not scored
11G	Perceived Response Scale	PRfamlres	rate how Family Member #1 has responded to your prosthesis. Or check I don't have close family members.	0-100 If checked score as "nr" (no- response)
12H	Perceived Response Scale	PRfam2res	rate how Family Member #2 has responded to your prosthesis. Or check I don't have a second close family member.	0-100 If checked score as "nr" (no- response)
12I	Social Burden Scale	SBpartburd	rate how much of a burden your prosthesis has been on your partner or family members. Or check I don't have a partner or family members.	0-100 If checked score as "nr" (no- response)
12J	Social Burden Scale	SBsochind	rate how much having your prosthesis has hindered you socially.	0-100
12K	Social Burden Scale	SBcaregive	rate your ability to take care of someone else, (e.g. your partner, a child, or a friend). Or check I don't take care of someone else.	0-100 If checked score as "nr" (no- response)

Questions about Ability to Move Around

Page/ Item	Scale or Single Qeustion	Variable Name	Question 'Over the past four weeks,"	Scoring code
13A	Ambulation Scale	AMwalk	rate your ability to walk when using your prosthesis.	0-100
13B	Ambulation Scale	AMclose	rate your ability to walk in close spaces when using your prosthesis.	0-100
13C	Ambulation Scale	AMupstair	rate your ability to walk up stairs when using your prosthesis.	0-100
13D	Ambulation Scale	AMdwnstair	rate how you felt about being able to walk down stairs when using your prosthesis.	0-100
14E	Ambulation Scale	AMuphill	rate your ability to walk up a steep hill when using your prosthesis.	0-100
14F	Ambulation Scale	AMdownhill	rate your ability to walk down a steep hill when using your prosthesis.	0-100
14G	Ambulation Scale	AMsidewalk	rate your ability to walk on sidewalks and streets! when using your prosthesis.	0-100
14H	Ambulation Scale	AMslip	rate your ability to walk on slippery surfaces (e.g. wet tile, snow, a rainy street, or a boat deck) when using your prosthesis.	0-100
14I	Transfer Question	TRcar	rate your ability to get in and out of a car when using your prosthesis.	0-100
15J	Transfer	TRhichair	rate your ability to sit down and get up from a chair with a high seat (e.g., a dining chair, a kitchen chair, an office chair).	0-100
15K	Transfer Question	TRIochair	rate your ability to sit down and get up from a low or soft chair (e.g. an easy chair or deep sofa).	0-100
15L	Transfer Question	TRtoilet	rate your ability to sit down and get up from the toilet.	0-100
15M	Transfer Question	TRbath	rate your ability to shower or bathe safely.	0-100

Questions about satisfaction with particular situations

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Page/ Item	Scale or Single Question	Variable Name	Question "Over the past four weeks,"	Scoring code
16A	Satisfaction Question	SAsatpros	rate how satisfied you have been with your prosthesis.	0-100
16B	Satisfaction Question	SAsatwalk	rate how satisfied you have been with how you are waking.	0-100
16C	Well Being Scale	WBsincamp	rate how satisfied you have been with how things have worked out since our amputation.	0-100
16D	Well Being Scale	WBqol	how would you rate your quality of life?	0-100

17E	Prosthetic Care Question	PCprostist	How satisfied are you with the person who fit your current prosthesis?	0-100
17F	Prosthetic Care Question	PCcurtrain	How satisfied are you with the training you have received on using your current prosthesis? Or check I have not had any training with my current prosthesis.	0- 100 if checked score as "nr" (no- response)
17G	Prosthetic Care Question	PCalltrain	Overall, how satisfied are you with the gait and prosthetic training you have received since your amputation. Or check I have not had any training since my amputation.	score as "nr" (no-

Questions about ability to do daily activities under difficult conditions

Page/	Scale or Single	Variable Name	Question	Scoring code
Item	Question			_
18A in Gp6	Self Efficacy Question	SEfitpoor	When the fit of my prosthesis is poor, I will get	0-100
18B	Self Efficacy Question	SEcomfpor	When the comfort of my prosthesis is poor, I will get	0-100
18C	Self Efficacy Question	SEnopros	Without my prosthesis, I will get	0-100

Questions about the Importance of different aspects of experience with the prosthesis

Page/ Item	Scale or Single Ouestion	Variable Name	Question	Scoring code
18A inGp7	Importance Question	IMimpwt	How important is it that the weight of your prosthesis feel right?	0-100
19B	Importance Question	IMimpdon	How important is the ease of putting on (donning) your prosthesis?	0-100
19C	Importance Question	IMimpapear	How important is the appearance of your prosthesis (how it looks)?	0-100
19D	Importance Question	IMimpshoe	How important is it to you to be able to wear different kinds of shoes (heights or styles)?	0-100
19E	Importance Question	IMimpcover	How important is it that your prosthesis' covering is durable (cannot be torn, dented, easily scratched, or discolored)?	0-100
19F	Importance Question	IMsweatbot	How bothersome is it when you sweat a lot inside your prosthesis (in the sock, liner, socket)?	0-100
20G	Importance Question	IMswellbot	How bothersome to you is swelling in your residual limb (stump)?	0-100
20H	Importance Question	IMnohair	How important is it to avoid having any ingrown hairs (pimples) on your residual limb (stump)?	0-100,
10I	Importance Question	IMIookubot	How bothersome is it to see people looking at you and your prosthesis?	0-100
20J	Importance Question	IMimpuphil	How important is being able to walk up a steep hill?	0-100