Appendix

PROMIS Physical Function

In these studies, we analyzed slightly different forms of the PROMIS Physical Function instrument. For the COPD, Back Pain, and Depression studies, we analyzed the CAT v1.0 version, which adaptively selects items from the 1.0 bank. For the Rheumatoid Arthritis study, we administered the Short Form v1.0 10a. For the Cancer study, we administered a unique 10-item short form. All of the items in both of these short forms were also in the bank; because the items were calibrated together, Tscores obtained from any version (CAT and short-form) are comparable.

Instruments included in this Appendix:

PROMIS Short Form v1.0 – Physical Function 10a

PROMIS Item Bank v1.2 - Physical Function*

We recommend the use of the short form. Users interested in CAT versions or for additional questions, please visit <u>www.assessmentcenter.net</u>.

Physical Function items administered in the Cancer study are in marked with an asterisk () next to the variable name. The original PROMIS Bank version v1.0 – Physical Function included 124 items after being tested in a diverse sample. Later, during an effort to translate instrument items into multiple languages, translation challenges were identified. Therefore, minor modifications to the English source items were required (e.g. metric equivalents to measurements such as "Over 10 pounds/ 5 kg" were added). These modifications (19 in total) resulted in the creation of a version 1.1 item bank. Later, version 1.2 was created by eliminating three items due to restrictions in their use: PFA7, PFC20, and PFC34.

Physical Function – Short Form 10a

Please respond to each item by marking one box per row.

		Not at all	Very little	Somewhat	Quite a lot	Cannot do
PFA01*	Does your health now limit you in doing vigorous activities, such as running, lifting heavy objects, participating in strenuous sports?	5	4	3	2	1
PFC36	Does your health now limit you in walking more than a mile?	5	4	3	2	
PFC37	Does your health now limit you in climbing one flight of stairs?	5	□ 4	3	2 2	
PFA05	Does your health now limit you in lifting or carrying groceries?	5	4	3	2 2	
PFA03	Does your health now limit you in bending, kneeling, or stooping?	□ 5	\square 4	\square 3		\square
		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA11	Are you able to do chores such as vacuuming or yard work?	any	little	some	much	
PFA11 PFA16		any difficulty	little difficulty	some difficulty	much difficulty	do
	yard work? Are you able to dress yourself, including tying	any difficulty 5	little difficulty 4	some difficulty	much difficulty 2	do
PFA16	yard work? Are you able to dress yourself, including tying shoelaces and doing buttons?	any difficulty 5	little difficulty 4	some difficulty	much difficulty 2	do

Physical Function

Please respond to each item by marking one box per row.

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA10	Are you able to stand for one hour?	— 5	4	3	2	
PFA11*	Are you able to do chores such as vacuuming or yard work?	 5	— 4	 3	□ 2	
PFA12	Are you able to push open a heavy door?	5	— 4	 3	2	
PFA13	Are you able to exercise for an hour?	5	□4	3	2 2	
PFA14r1	Are you able to carry a heavy object (over 10 pounds/5 kg)?	 5	— 4	 3	□ 2	
PFA15	Are you able to stand up from an armless straight chair?	 5	□ 4	□ 3	□2	
PFA16r1	Are you able to dress yourself, including tying shoelaces and buttoning up your clothes?	 5	□ 4	□ 3	□2	
PFA17	Are you able to reach into a high cupboard?	□ 5				

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		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA18	Are you able to use a hammer to pound a nail?	□ 5	□ 4	□ 3		
PFA19r1	Are you able to run or jog for two miles (3km)?	— 5	— 4	□	□2	\square 1
PFA20	Are you able to cut your food using eating utensils?	 5	4	 3	□ 2	
PFA21*	Are you able to go up and down stairs at a normal pace?	 5	— 4	□	□2	
PFA22	Are you able to open previously opened jars?	□ 5	□4	□3	□2	
PFA23	Are you able to go for a walk of at least 15 minutes?	— 5	— 4	□	□2	
PFA25	Are you able to do yard work like raking leaves, weeding, or pushing a lawn mower?	 5	— 4	 3	□ 2	
PFA28	Are you able to open a can with a hand can opener?	□ 5	□ 4		□ 2	

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA29r1	Are you able to pull heavy objects (10 pounds/ 5kg) towards yourself?	5	\square ₄	□ 3	□ 2	
PFA30	Are you able to step up and down curbs?	 5	— 4	\square ₃	□ 2	
PFA31r1	Are you able to get up from the floor from lying on your back without help?	 5	\square ₄	□ 3	□ 2	
PFA32	Are you able to stand with your knees straight?	□ 5	□ 4	□ 3	□ 2	
PFA33	Are you able to exercise hard for half an hour?	□ 5	\square ₄	□ 3	□2	
PFA34	Are you able to wash your back?	□5	— 4	\square	□2	
PFA35	Are you able to open and close a zipper?	□ 5	— 4	□ 3	2	
PFA36	Are you able to put on and take off a coat or jacket?	□ 5	— 4	□ 3	2	
PFA37	Are you able to stand for short periods of time?	□ 5	\square 4	□ 3	□ 2	

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA38	Are you able to dry your back with a towel?	□ 5	□ 4	□ 3		
PFA39r1	Are you able to run at a fast pace for two miles (3 km)?	 5	— 4	□ 3	□2	
PFA40	Are you able to turn a key in a lock?	— 5		 3	\square ₂	
PFA41	Are you able to squat and get up?	□ 5	4	□ 3	□2	
PFA42	Are you able to carry a laundry basket up a flight of stairs?	 5	□ 4	□ 3	□2	
PFA43	Are you able to write with a pen or pencil?	— 5	□ 4	 3	\square ₂	
PFA44	Are you able to put on a shirt or blouse?	□ 5	☐ 4	□ 3	□2	
PFA45	Are you able to get out of bed into a chair?	 5	\square	□ 3	\square ₂	
PFA47	Are you able to pull on trousers?	— 5	4			

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA48	Are you able to peel fruit?	5	— 4	3	2 2	
PFA49	Are you able to bend or twist your back?	 5	4] 3	2 2	
PFA50	Are you able to brush your teeth?	□ 5	□ 4	□	□2	
PFA51	Are you able to sit on the edge of a bed?	— 5	4	□3	□2	
PFA52	Are you able to tie your shoelaces?	— 5	□ 4	□		
PFA53*	Are you able to run errands and shop?	5	□4	□	2 2	
PFA54	Are you able to button your shirt?	5	4	□		
PFA55	Are you able to wash and dry your body?	5	4	□		
PFA56*	Are you able to get in and out of a car?	 5	4	□ 3	2 2	
PFA8	Are you able to move a chair from one room to another?	□ 5			□ 2	

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFA9*	Are you able to bend down and pick up clothing from the floor?	5	4	3	2	
PFB10	Are you able to climb up five steps?	— 5	4	\square 3	□2	
PFB11	Are you able to wash dishes, pots, and utensils by hand while standing at a sink?	5	— 4	 3	□2	
PFB12	Are you able to make a bed, including spreading and tucking in bed sheets?	□5	— 4	□3	□2	
PFB13	Are you able to carry a shopping bag or briefcase?	— 5	□4	□3	□2	
PFB14	Are you able to take a tub bath?	□5	\square ₄	\square ₃	□2	
PFB15	Are you able to change the bulb in a table lamp?	— 5	— 4	□	□2	
PFB16	Are you able to press with your index finger (for example ringing a doorbell)?	□ 5	□ 4	□ 3		

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFB17	Are you able to put on and take off your socks?	— 5	4	3	2	
PFB18	Are you able to shave your face or apply makeup?	5		□ 3		
PFB19	Are you able to squeeze a new tube of toothpaste?	5	4	□ 3	2	
PFB20	Are you able to cut a piece of paper with scissors?	□5	— 4	□ 3	□2	
PFB21	Are you able to pick up coins from a table top?	□5		□ 3		
PFB22	Are you able to hold a plate full of food?	 5	— 4	□ 3	□ 2	
PFB23	Are you able to pour liquid from a bottle into a glass?	5	\square ₄	□ 3	□ 2	
PFB24	Are you able to run a short distance, such as to catch a bus?	□ 5	□ 4		□ 2	

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFB25	Are you able to push open a door after turning the knob?	□ 5	4	□ 3	2	
PFB26	Are you able to shampoo your hair?	 5	□4	□ 3	□2	
PFB27	Are you able to tie a knot or a bow?	5	□4] 3		
PFB28r1*	Are you able to lift 10 pounds (5 kg) above your shoulder?	□ 5	□ 4	□ 3		
PFB29	Are you able to lift a full cup or glass to your mouth?	5	— 4	□	2 2	
PFB30	Are you able to open a new milk carton?	□5	☐ 4	□	2	
PFB31	Are you able to open car doors?	□ 5		□	□2	
PFB32	Are you able to stand unsupported for 10 minutes?	□ 5	□ 4	□ 3	2 2	
PFB33	Are you able to remove something from your back pocket?	□ 5	□ 4	□ 3	□ 2	

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		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFB34	Are you able to change a light bulb overhead?	— 5	\square 4	□ 3		
PFB36	Are you able to put on a pullover sweater?	5	— 4	3	2	
PFB37	Are you able to turn faucets on and off?	5	 4	3	2 2	
PFB39r1	Are you able to reach and get down a 5 pound (2 kg) object from above your head?	 5	□ 4	3		
PFB40	Are you able to stand up on tiptoes?	5	□ 4	□ 3	2 2	
PFB41	Are you able to trim your fingernails?	 5	□ 4	□ 3	□2	
PFB42	Are you able to stand unsupported for 30 minutes?	 5	□ 4	□ 3	2	
PFB56r1	Are you able to lift one pound (0.5 kg) to shoulder level without bending your elbow?	— 5	□ 4	□ 3	□ 2	

		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFB8r1	Are you able to carry two bags filled with groceries 100 yards (100 m)?	5	□ 4	 3	□ 2	
PFB9	Are you able to jump up and down?	5	4	3	2 2	
PFC13r1	Are you able to run 100 yards (100 m)?	5		3	2 2	
PFC29	Are you able to walk up and down two steps?	5	□4	3	2 2	
PFC31	Are you able to reach into a low cupboard?	5	4	3	2 2	
PFC32	Are you able to climb up 5 flights of stairs?	5	4	3	2 2	
PFC33r1	Are you able to run ten miles (16 km)?	5		3	2 2	
PFC38	Are you able to walk at a normal speed?	— 5	— 4	3	2 2	
PFC39	Are you able to stand without losing your balance for several minutes?	— 5	□ 4	□3	□ 2	
PFC40	Are you able to kneel on the floor?	 5	\square ₄	□	2 2	

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		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFC41	Are you able to sit down in and stand up from a low, soft couch?	5	□ 4	 3		
PFC43	Are you able to use your hands, such as for turning faucets, using kitchen gadgets, or sewing?	□ 5	□ 4		□ 2	
PFC45r1	Are you able to sit on and get up from the toilet?	□5	□ 4	□		
PFC46	Are you able to transfer from a bed to a chair and back?	— 5	\square 4			
PFC47	Are you able to be out of bed most of the day?	□ 5	\square 4			
PFC49	Are you able to water a house plant?	5	□ 4	 3	□2	
PFC51	Are you able to wipe yourself after using the toilet?	5	4	 3	2 2	
PFC52	Are you able to turn from side to side in bed?	5		 3	2	
PFC53	Are you able to get in and out of bed?	 5	— 4	3	2 2	

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		Without any difficulty	With a little difficulty	With some difficulty	With much difficulty	Unable to do
PFC6r1	Are you able to walk a block (100 m) on flat ground?	— 5	4	3	2 2	
PFC7r1	Are you able to run five miles (8 km)?	□5	\square 4	\square	□2	
		Not at all	Very little	Somewhat	Quite a lot	Cannot do
PFA1	Does your health now limit you in doing vigorous activities, such as running, lifting heavy objects, participating in strenuous sports?	□5	\square 4	\square ₃	\square_2	
PFA3	Does your health now limit you in bending, kneeling, or stooping?		□ 4			
PFA4	Does your health now limit you in doing heavy work around the house like scrubbing floors, or lifting or moving heavy furniture?	□5	\square 4	□ 3	2 2	
PFA5	Does your health now limit you in lifting or carrying groceries?	5	4			
PFA6*	Does your health now limit you in bathing or dressing yourself?	5	□ 4	 3	2 2	

		Not at all	Very little	Somewhat	Quite a lot	Cannot do
PFB1	Does your health now limit you in doing moderate work around the house like vacuuming, sweeping floors or carrying in groceries?	□ 5	□4	□ 3	□2	
PFB3*	Does your health now limit you in putting a trash bag outside?	5	□ 4	3	□ 2	
PFB43	Does your health now limit you in taking care of your personal needs (dress, comb hair, toilet, eat, bathe)?	□5	□ 4	□ 3	□ 2	
PFB44*	Does your health now limit you in doing moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf?	— 5	□ 4	 3	□ 2	
PFB48	Does your health now limit you in taking a shower?	□ 5	□ 4	□ 3	□ 2	
PFB49	Does your health now limit you in going for a short walk (less than 15 minutes)?	5	— 4	 3	2 2	
PFB5r1	Does your health now limit you in hiking a couple of miles (3 km) on uneven surfaces, including hills?	□5	□ 4	□ 3	□2	
PFB51	Does your health now limit you in participating in active sports such as swimming, tennis, or basketball?	— 5	□ 4		□ 2	

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		Not at all	Very little	Somewhat	Quite a lot	Cannot do
PFB54	Does your health now limit you in going OUTSIDE the home, for example to shop or visit a doctor's office?	□ 5	\square 4		□ 2	
PFB7	Does your health now limit you in doing strenuous activities such as backpacking, skiing, playing tennis, bicycling or jogging?	— 5	□ 4	3	□ 2	
PFC10	Does your health now limit you in climbing several flights of stairs?	— 5	□4	□ 3		
PFC12	Does your health now limit you in doing two hours of physical labor?	5	4	3	□2	
PFC35	Does your health now limit you in doing eight hours of physical labor?	5	4		□ 2	
PFC36r1	Does your health now limit you in walking more than a mile (1.6 km)?	— 5	4	3	□ 2	
PFC37	Does your health now limit you in climbing one flight of stairs?	5	4		2 2	
PFC54	Does your health now limit you in getting in and out of the bathtub?	□ 5	\square 4	□ 3		

	_	Not at all	Very little	Somewhat	Quite a lot	Cannot do
PFC56	Does your health now limit you in walking about the house?	5	\square	□ 3	□ 2	
		No difficulty at all	A little bit of difficulty	Some difficulty	A lot of difficulty	Can't do because of health
PFB50	How much difficulty do you have doing your daily physical activities, because of your health?	5	□ 4	□ 3	2 2	