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Protocol for a phase II, multicenter, open label, randomized controlled trial to compare the efficacy of gamification using Nintendo Switch Ring Fit Adventure game versus standard exercise in the treatment of fibromyalgia

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APPENDICES

Appendix A - Adherence Questionnaire

- 1. How many days did you exercise this week? (options for marking: one, two, three, more than three, or none).
- 2. How long did the exercise last in minutes? (options for marking: less than 20 minutes, between 20-30 minutes, between 30-40 minutes, between 40-50, 60 minutes)
- 3. Rate the difficulty in performing the exercise (low, moderate to low moderate, moderate to high, high, and almost unbearable).
- 4. Did you experience any symptoms after the workout? (options: yes or no). If the answer is yes, list your symptoms.
- 5. If you could not do the exercise, please email the reasons for which this could not be done (increase of pain, no time for exercise, apathy, others)

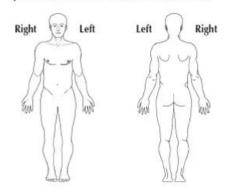
Appendix B - Revised Fibromyalgia Impact Questionnaire (FIQR) The Revised Fibromyalgia Impact Questionnaire Domain 1 directions: For each of the following nine questions, check the one box that best indicates how much your fibromyalgia made it difficult to do each of the following activities over the past 7 days: Brush or comb your hair No difficulty Output Description: Walk continuously for 20 minutes No difficulty Output Description: Prepare a homemade meal No difficulty a a a a a a a a a a very difficult Vacuum, scrub, or sweep floors No difficulty Output Description: Lift and carry a bag full of groceries Climb one flight of stairs Change bed sheets Sit in a chair for 45 minutes No difficulty a a a a a a a a a a very difficult Go shopping for groceries Domain 2 directions: For each of the following two questions, check the one box that best describes the overall impact of your fibromyalgia over the past 7 days: Fibromyalgia prevented me from accomplishing goals for the week Never Always I was completely overwhelmed by my fibromyalgia symptoms Never Always Domain 3 directions: For each of the following 10 questions, check the one box that best indicates the intensity of your fibromyalgia symptoms over the past 7 days: Please rate your level of pain Please rate your level of energy Lots of energy No energy No stiffness 🗆 🗆 🗆 🗆 🗆 🗆 🗆 Severe stiffness Please rate your level of stiffness Awoke rested | | | | | | | | | | | Awoke very tired Please rate the quality of your sleep Please rate your level of depression No depression Output Description Description No depression Output Description Descript Good memory D D D D D D D D Very poor memory Please rate your level of memory problems Not anxious D D D D D D D D Very anxious Please rate your level of anxiety Please rate your level of tenderness to touch No tendemess D D D D D D D D Very tender Please rate your level of balance problems No imbalance I I I I I I I I I I Severe imbalance Please rate your level of sensitivity to loud noises, bright lights, odors, and cold Scoring: Step 1. Sum the scores for each of the three domains (function, overall, and symptoms). Step 2. Divide domain 1 score by three, divide domain 2 score by one (that is, it is unchanged), and divide domain score 3 by two. Step 3. Add the three resulting domain scores to obtain the total Revised Fibromyalgia Impact Questionnaire score.

Appendix C - Brief Pain Inventory

BRIEF PAIN INVENTORY

Time: Name:

- Throughout our lives, most of us have had pain from time to time (such as minor headaches, sprains, and toothaches). Have you had pain other than these everyday kinds of pain today?
 - 1. Yes 2. No
- On the diagram, shade in the areas where you feel pain. Put an X on the area that hurts the most.



3) Please rate your pain by circling the one number that best describes your pain at its WORST in the last 24 hours.

0	1	2	3	4	5	6	7	8	9	10
No									Pain :	as bad
Pain										ou can
									in	nagine

Please rate your pain by circling the one number that best describes your pain at its LEAST in the last 24 hours.

1	2	3	4	5	6	7	8	9	10
								Pain	as bad
								as y	ou can
	1	1 2	1 2 3	1 2 3 4	1 2 3 4 5	1 2 3 4 5 6	1 2 3 4 5 6 7	1 2 3 4 5 6 7 8	

Please rate your pain by circling the one number that best describes your pain on the AVERAGE.



Please rate your pain by circling the one number that tells how much pain you have RIGHT NOW.

0 1	2	3	4	9	•	-7	 9	10
No Pain							Pain a	s bad
Pain							as yo	u can agine

Brief Pain Inventory (Short Form). Source: Pain Research Group, Depart Neuro-Oncology, The University of Texas MD Anderson Cancer Center. Used with permission. Adapted to single page format. Copyright 1991 Charles S. Cleeland, Ph.D.

7) What treatments or medications are you receiving for your pain?

In the last 24 hours, how much relief have pain treatments or medications provided? Please circle the one percentage that shows how much RELIEF you have received.



- Circle the one number that describes how, during the past 24 hours, pain has interfered with your:
 - A. General activity

0	1	2	3	4	- 5	6	7	8	9	10
Does									int	pletely erferes
n .										

B. Mood

0	1	2	3	4	5	6	7	8	9	10
Does interf									Com	pletely erferes

C. Walking ability

0	1	2	3	4	5	6	7	8	9	10
Does										pletely erferes

D. Normal work (includes both work outside the home and housework)

0	1	2	3	4	5	6	7	8	9	10
Doe	s not riere									pletely erferes

E. Relations with other people

0	1	2	3	4	5	6	7	8	9	10
Does interfe									Com	pletely erferes

F. Sleep

0	1	2	3	4	5	6	7	8	9	10
Does interfe									Com	pletely erferes

G. Enjoyment of life

0	1	2	3	4	5	6	7	8	9	10
Does i	not ere								Com	pletely erfere

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Appendix D

Roc	Beck Depression Inventory			Baseline
1477	CRTN: CRF number:		Page 14	patient inits:
	D -11			Date:
me:		_ Marita	d Status:	Age: Sex:
cup	ation:	Educa	tion:	
		Т		
100	adness	1000000	mishment Feeling	
0	I do not feel sad.	0	I don't feel I an	n being punished.
0	I do not feel sad. I feel sad much of the time.	0	I don't feel I an I feel I may be	n being punished. punished.
0	I do not feel sad.	0	I don't feel I an	n being punished. punished. unished.
0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it.	0 1 2 3	I don't feel I an I feel I may be I expect to be p	n being punished. punished. unished.
0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it.	0 1 2 3	I don't feel I ar I feel I may be I expect to be p I feel I am bein	n being punished. punished. unished.
0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it.	0 1 2 3 7. Se	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same	n being punished. punished. cunished. g punished.
0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be.	0 1 2 3 7. Se	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same	n being punished. punished. unished. g punished. about myself as ever. fidence in myself.
0 1 2 3 . P 0 1	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me.	0 1 2 3 7. Se	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same I have lost conf	n being punished. punished. unished. g punished. about myself as ever. fidence in myself. ted in myself.
0 1 2 3 2. P 0	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me. I feel my future is hopeless and will only get	0 1 2 3 7. Se 0 1 2 3	I don't feel I an I feel I may be I expect to be p I feel I am bein If-Dislike I feel the same I have lost cont I am disappoint I dislike myselt	n being punished. punished. unished. g punished. about myself as ever. fidence in myself. ted in myself.
0 1 2 3 2. P 0 1	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me.	0 1 2 3 7. Se 0 1 2 3	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same I have lost coni I am disappoint I dislike myseli	n being punished. punished. unished. g punished. about myself as ever. fidence in myself. ted in myself.
0 1 2 3 2. P 0 1	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me. I feel my future is hopeless and will only get	0 1 2 3 7. Se 0 1 2 3	I don't feel I ar I feel I may be I expect to be p I feel I am bein If-Dislike I feel the same I have lost coni I am disappoint I dislike myseli If-Criticalness I don't criticize	n being punished. punished. unished. g punished. about myself as ever. fidence in myself. ted in myself. f. or blame myself more than usua
0 1 2 3 2. P 0 1	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me. I feel my future is hopeless and will only get worse.	0 1 2 3 7. Se 0 1 2 3 8. Se 0	I don't feel I ar I feel I may be I expect to be p I feel I am bein If-Dislike I feel the same I have lost cont I am disappoin I dislike myselt If-Criticalness I don't criticize I am more criti	n being punished. punished. gunished. g punished. about myself as ever. fidence in myself. ted in myself. or blame myself more than usua cal of myself than I used to be.
0 1 2 3 2. P 0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me. I feel my future is hopeless and will only get worse. ast Failure	0 1 2 3 7. Se 0 1 2 3 8. Se 0 1 2	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same I have lost cont I am disappoint I dislike myselt off-Criticalness I don't criticize I am more criti I criticize myse	n being punished. punished. g punished. g punished. about myself as ever. fidence in myself. ted in myself. or blame myself more than usua cal of myself than I used to be. lif for all of my faults.
0 1 2 3 2. P 0 1 2 3	I do not feel sad. I feel sad much of the time. I am sad all the time. I am so sad or unhappy that I can't stand it. essimism I am not discouraged about my future. I feel more discouraged about my future than I used to be. I do not expect things to work out for me. I feel my future is hopeless and will only get worse. ast Failure I do not feel like a failure.	0 1 2 3 7. Se 0 1 2 3 8. Se 0	I don't feel I ar I feel I may be I expect to be p I feel I am bein off-Dislike I feel the same I have lost cont I am disappoint I dislike myselt off-Criticalness I don't criticize I am more criti I criticize myse	n being punished. punished. gunished. g punished. about myself as ever. fidence in myself. ted in myself. or blame myself more than usua cal of myself than I used to be.

3 I feel I am a total failure as a person.

4. Loss of Pleasure

- I get as much pleasure as I ever did from the things I enjoy.
- I don't enjoy things as much as I used to.
- I get very little pleasure from the things I used
- I can't get any pleasure from the things I used to enjoy.

5. Guilty Feelings

- I don't feel particularly guilty.
- I feel guilty over many things I have done or should have done.
- I feel quite guilty most of the time.
- I feel guilty all of the time.

9. Suicidal Thoughts or Wishes

- 0 I don't have any thoughts of killing myself.
- I have thoughts of killing myself, but I would not carry them out.
- 2 I would like to kill myself.
- 3 I would kill myself if I had the chance.

10. Crying

- 0 I don't cry anymore than I used to.
- 1 I cry more than I used to.
- 2 I cry over every little thing.
- 3 I feel like crying, but I can't.

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Continued on Back

0154018392 NR15645



Inventory

Baseline

V 0477

CRTN: CRF number:

Beck Depression

Page 15

patient inits:

11. Agitation

- 0 I am no more restless or wound up than usual.
- I feel more restless or wound up than usual.
- I am so restless or agitated that it's hard to stay still.
- I am so restless or agitated that I have to keep moving or doing something.

12. Loss of Interest

- 0 I have not lost interest in other people or activities
- I am less interested in other people or things than before.
- I have lost most of my interest in other people or things.
- 3 It's hard to get interested in anything.

13. Indecisiveness

- I make decisions about as well as ever.
- I find it more difficult to make decisions than usual.
- I have much greater difficulty in making decisions than I used to.
- 3 I have trouble making any decisions.

14. Worthlessness

- 0 I do not feel I am worthless.
- I don't consider myself as worthwhile and useful as I used to.
- 2 I feel more worthless as compared to other people.
- 3 I feel utterly worthless.

15. Loss of Energy

- 0 I have as much energy as ever.
- I have less energy than I used to have.
- I don't have enough energy to do very much.
- I don't have enough energy to do anything.

16. Changes in Sleeping Pattern

- I have not experienced any change in my sleeping pattern.
- la I sleep somewhat more than usual.
- 1b I sleep somewhat less than usual.
- 2a I sleep a lot more than usual.
- 2b I sleep a lot less than usual.
- 3a I sleep most of the day.
- 3b I wake up 1-2 hours early and can't get back

17. Irritability

- 0 I am no more irritable than usual.
- I am more irritable than usual.
- I am much more irritable than usual.
- I am irritable all the time.

18. Changes in Appetite

- I have not experienced any change in my
- 1a My appetite is somewhat less than usual.
- 1b My appetite is somewhat greater than usual.
- My appetite is much less than before.
- 2b My appetite is much greater than usual.
- 3a I have no appetite at all.
- 3b I crave food all the time.

19. Concentration Difficulty

- I can concentrate as well as ever.
- I can't concentrate as well as usual.
- It's hard to keep my mind on anything for very long.
- 3 I find I can't concentrate on anything.

20. Tiredness or Fatigue

- I am no more tired or fatigued than usual.
- I get more tired or fatigued more easily than 1
- I am too tired or fatigued to do a lot of the things I used to do.
- I am too tired or fatigued to do most of the things I used to do.

21. Loss of Interest in Sex

- 0 I have not noticed any recent change in my interest in sex.
- I am less interested in sex than I used to be.
- 2 I am much less interested in sex now.
- 3 I have lost interest in sex completely.

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Subtotal Page 2 Subtotal Page 1 Total Score

NR15645