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to Reduce Anxiety and Mindfulness Exercises **Urodynamic Testing:** Incorporation of Pain During

Maj Pansy Uberoi, MD, MPH; LtCol Forrest Jellison, MD; Anna Smitherman, PhD; James Aden, PhD; Maj Presented by Maj Uberoi

Controlled Pilot Study

A Randomized

San Antonio Military Medical Center, San Antonio, TX



Disclaimer



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- this research was obtained as required by 32 CFR 219 and The voluntary, fully informed consent of the subjects used in DODI 3216.02_AFI 40-402
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Mindfulness



- Mindfulness based stress reduction
- Incorporates meditation and yoga based exercises
- Aims to improve awareness of experiences and mental content
- Classified as complementary alternative medicine
- Mindfulness has been studied acute and chronic conditions (ie IBS, LBP, fibromyalgia and IC/BPS)
- UDS is associated with emotional and physical discomfort



Objectives

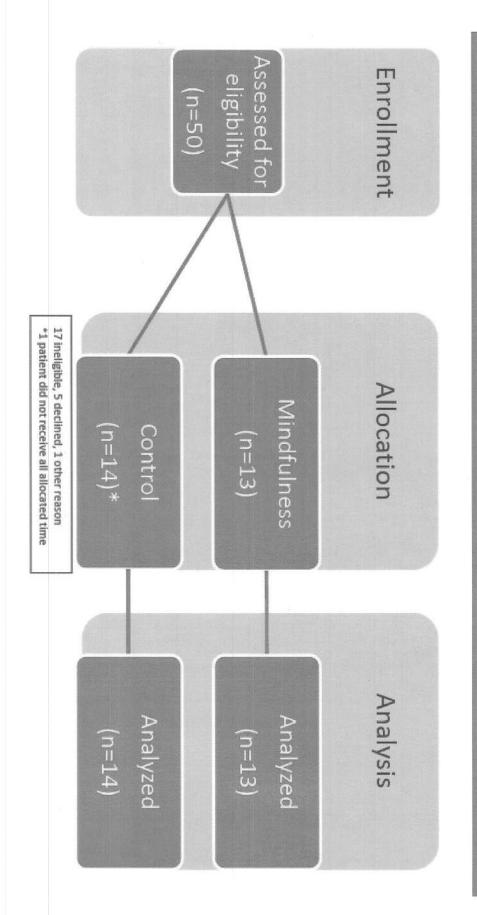


- urodynamic studies Investigate impact of mindfulness prior to
- Primary endpoint
- Anxiety
- Secondary endpoints
- Pain
- Fear
- Embarrassment



Methods









Data Collection



Study	Control		
Mindfulness	Empty Room	VAS STAI-6	Enrollment O
UDS	UDS	VAS STAI-6	10 minutes later
		VAS STAI-6 Questionnaire	Completion



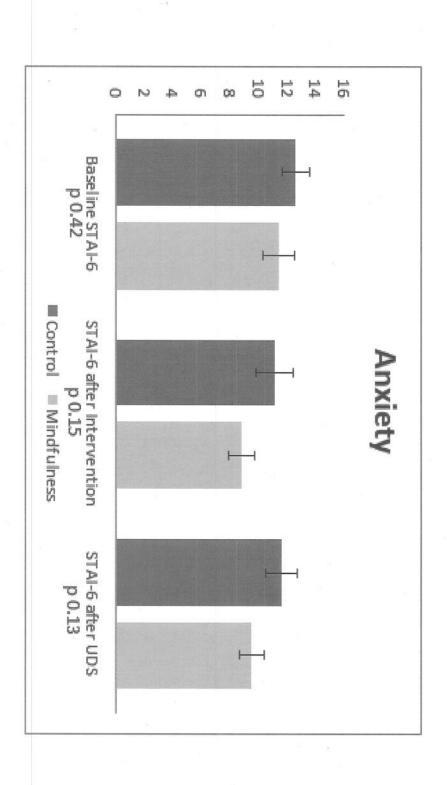
Demographics

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28% 50% 34%	50%	28%			0%	0%	54%	38%	7%		34%	50%	16%	0%	0%		16%	0%	50%	34%		54%	59	n=13) p-value
				0.88						0.37						0.21					0.64	0.73	0.94	value







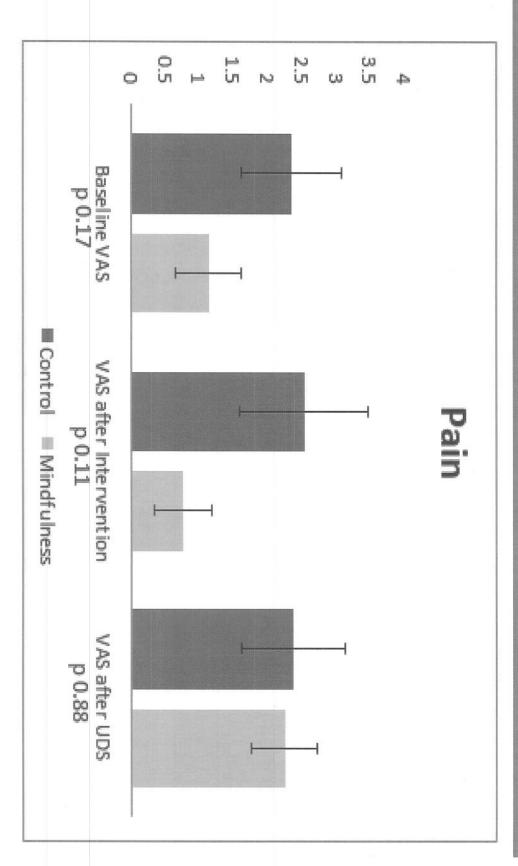










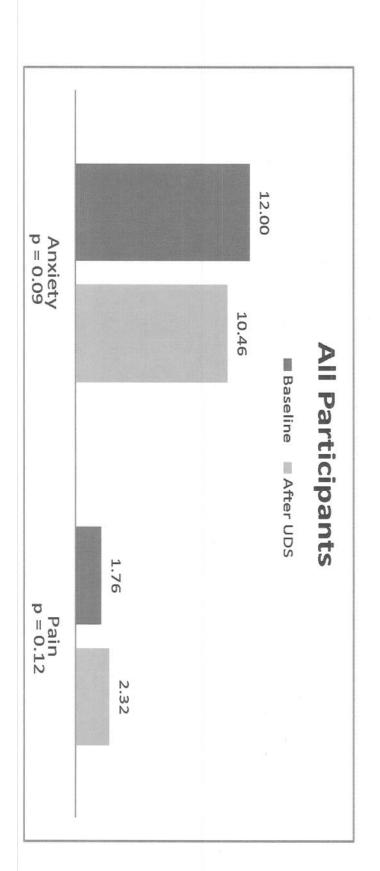






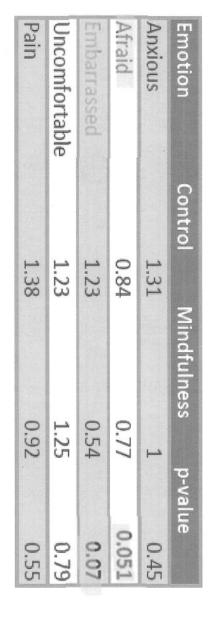
Pain and Anxiety







Secondary Endpoints



Expectation	Control	Mindfulness
Same	36%	38%
Better	57%	55%
Worse	7%	7%
p-value 0.31	2	



Discussion



Strengths Single institution Single UDS operator UDS operator blinded

Single psychologist

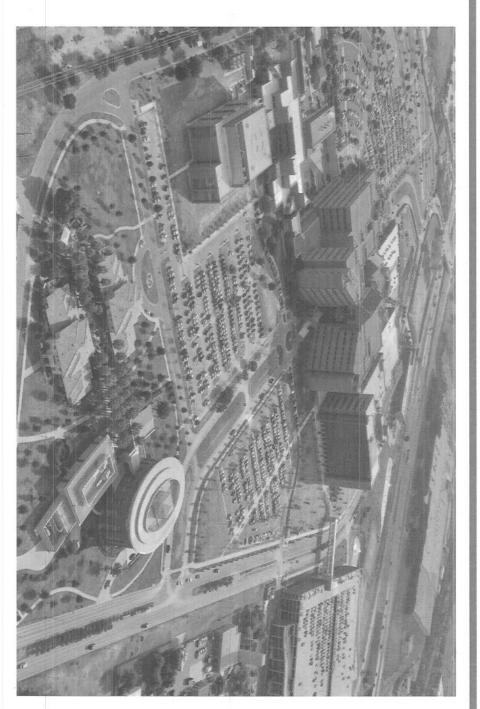
Limitations

Confounding effect

Pilot study









Script

- are paying attention to me. Trust your mind to follow the instructions as it needs to. own rhythm. Listen to my voice in the background, but don't concern yourself with how well you Get comfortable and begin by breathing deeply. Inhale and exhale, allowing your breath to find its
- attention inward. Use the breath to let go of any tension. (Pause for 20 seconds) your lap and gently close your eyes. Take a few deep, cleansing breaths. Begin to turn your To begin meditation, sit with a straight back and head balanced comfortably. Rest your hands in
- stages of its journey. As you are mindful of each breath, be open to the moment and accepting of whatever it brings. (Pause for 20 seconds) without judgement, without comment, without trying to change it. Just let it be...as it is. Follow the some may be short. Your breathing may be smooth or irregular at times. Notice your breath follow it as it leaves your lungs, and travels back out of your body. Notice how it feels at various breath as it enters your nose, travels down the back of your throat, and fills your lungs. Continue to Become aware of the natural rhythm of your breath as it rises and falls. Some breaths may be long
- of places in your body you have never noticed or paid attention to before. Let go and feel your body present in your body. Notice how you are sitting, how it feels where your body and the chair meet. As you continue to be aware of your breath, move your focus to any sensations what may be become heavier, more relaxed. Be mindful of any shifts in the body without judgement. (Pause for Notice the feeling of the fabric on your skin, or your feet against the floor. You may become aware Notice places where you may be holding more tension, or places where you are more relaxed

Script (cont)

- arising worries, fears, hopes, fantasies. This is the mind's natural state. It is doing what it is meant awareness has drifted with the stream of thoughts. Just notice your mind has wandered, without thoughts are constantly surfacing, moving and fading away. At some point you may notice that your to do. Just watch each thought come and go. Be mindful of the process, simply noticing how Now focus your awareness on the thoughts in your mind. All kinds of thoughts are continuously judgment, and gently return your attention to the breath. (Pause for 20 seconds)
- sensations in your body, any thoughts, and anything else you may experience continue in the background. Let the breath ground you in the present moment. (Pause for 2 minutes) For the next few minutes, keep your breath in the foreground of your awareness while letting any
- at any place. The benefits of this practice can expand and move with you throughout your day. It teeling retreshed and calm. own pace, bring your awareness back to the room. When you are ready, blink open your eyes, will help your focus your mind and bring balance to your activities and experiences. Now, at your yourself. You can practice mindfulness of breath, of sensations, of thoughts, and so on, at any time, As you come to the end of this meditation, appreciate that you have given this quiet time to

SELF-EVALUATION QUESTIONNAIRE

Please provide the following information:

Name:

6. I am worried.	5. I feel content.	4. I am relaxed.	3. I feel upset.	2. lam tense.	1. I feel calm.	A number of statements which people have used to describe themselves are given below. Read each statement and then circle the appropriate number to the right of the statement to indicate how you feel right now, that is, at this moment. There are no right or wrong answers. Do not spend too much time on any one statement but give the answer which seems to describe your present feelings at best.
Н	ъ	1	н	Þ	Ъ	JIA TA TON
2	N	2	2	2	2	TAHWEMOS
ω	ω	ω	ω	ω	ω	MODERATELY SO
4	4	4	4	4	4	VERY MUCH SO

out your ong	You have recently undergone a urodynamic test of your bladder. We are interested in learning more out your thoughts on the actual experience. There are no right or wrong experiences and there are no right or ong answers to these questions. We are interested in improving the experiences of all patients having these its in the future. Your honest responses will help us do just that. 1. How many times have you had this test (urodynamics): a. Never, this is my first time b. 1 time	he a urodynamic test of your bladder. We are interested in learning more experience. There are no right or wrong experiences and there are no right or wrong experiences and there are no right of the work of all patients having these ponses will help us do just that. The province of all patients having these ponses will help us do just that.	r bladder. We a ht or wrong exp ving the experie hat.	re interested eriences and nces of all pa
'n	 d. 3 or more times I have had a catheter, or urine tube, in my bladder before (at <u>any time</u> in my life): a. Yes 	n my bladder befo	ore (at <u>any time</u>	in my life
'n	- 0	before (where the	doctor looked i	nside m
4	5	adequately expla	ined to me:	
វុរ	I understand why I had this test (urodynamics). a. Yes b. No.	ynamics).		
0	During the test, a catheter (urine tube) was placed in my rectum/bottom: a. Yes b. No	e) was placed in n	ny rectum/botto	in:
.7	Please rate how strongly you felt each of the following during the test: Not at all A little	Not at all	A little	Some
ņ	Anxious			П
Ò.	Afraid			П
ů.	Embarrassed			П
9 0	Uncomfortable Pain			пп
erbs	Pain/discomfort from the catheter (tube) in my bladder, either during placement of the tube or during the			П
ĝα	Pain/discomfort from the catheter Pain/discomfort from the catheter (tube) in my rectum/bottom, either during placement of the tube or during the study (leave blank if you			

			11.						10.								9.											00	Э.	-		ጽ	÷		-	<u>,</u>	
C.	b.	a a		d.	c.	b.	e e	defined		.÷	e.	۵.	c.	b.	ů.	answer):	The wc	.		.	œ	.	e,	۵.	c.	0	ņ	The wo	Hot/sweaty	Light-h	(dn	Nause	Worrie	infectio	Worrie	Worrie	did not study)
The same as I thought it would be	Worse than I thought it would be	Better than I thought it would be	The study was	Neither was bad	Both were equally bad	Emotional/Non-physical	Physical	defined in questions 8 and 9 above)?	Which was worse for you during the study, the physical or the emotional/non-physical	None of the above (or I had no non-physical discomfort)	Other	Not understanding what was happening	Fear	Embarrassment	Anxiety/worry	· ·	The worst part of the study in terms of emotional/non-physical discomfort was (please	None of the above (or I had no physical discomfort)	Other	Feeling hot/sweaty	Light-headedness/dizziness	Nausea	Urinating	Holding a full bladder	Filling of the bladder with liquid	Placement of the catheter (tube) in my rectum/bottom	Placement of the catheter (tube) in my bladder/urethra	The worst part of the study in terms of physical discomfort was (please choose only one	veaty	Light-headed/dizzy		Nauseated (like I was going to throw	Worried about the results of the	infection (UTI)	Worried about getting a urinary tract	Worried about the use of X-ray	did not have this tube during your study)
									y, the physical o	n-physical disco		pening					notional/non-ph	ysical discomfor								in my rectum/bo	in my bladder/ui	ysical discomfor									
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									/non-physica								rt was (pleas											noose only on									
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