Physiotherapy Associates

Comparing the demographic profile and self-reported lifestyle and medical histories of female patients diagnosed with temporomandibular disorders to those diagnosed with other musculoskeletal disorders

Kraus, Steve¹; Taylor, Leslie²

1. Physiotherapy Associates, Atlanta, GA 2. Department of Physical Therapy, Mercer University, Atlanta, GA



PURPOSE

To investigate the demographic profile and self-reported lifestyle and past medical histories of female patients diagnosed with TMD.

✤ To compare the data with those of female patients diagnosed with other musculoskeletal disorders (MSD) related to the spine or extremities.

BACKGROUND

- ✤ Musculoskeletal involvement of the temporomandibular joint (TMJ), masticatory muscles and associated structures are collectively known as a temporomandibular disorder (TMD).
- ✤ Women seek treatment for TMD much more often than males.

✤ To date, studies have focused on patients seen in the dental office or pain center.

SIGNIFICANCE

✤ This study is the first to describe and compare the experiences and presentations of a female population of patients with TMD to a female population of patients with other MSDs seen in a physical therapy outpatient practice.

DESIGN

Retrospective Study Data Collection Period:

- ✤ April 2007 to April 2008
- November 2008 to May 2009

DATA COLLECTION INSTRUMENT

 Physiotherapy Associates Medical History Questionnaire

Medical History Questionnaire				12 Person int any SEMPLANT REPORTS for which pro have been been produce between detection, detection, detection,	
aution.					12 Introductive Internet DVEA THE COUNTER medications/see you later in the last week?
		lovoetime			
New your incomed teachment from other health providers for the scholaroox above? Yes 🗆 No 🗔				Tyland Adulticary/Isophanilana	
and of Dyrephone. has that I manta	fuests - 2 months [mainer ihnen 2 mannthas 门		Becorgedarts
1 Joandar Famale C Male C					te (Peace fel ary FREEDEFTON medicator you are surrerly lating
Desi Wes C Abias A	whan 🗆 Hapens 🕯		00w ⁻		13
Conception Name (Origin 12 A	invest ()	rear Cl		
5 JOHRDon under the age of 18, 8 1 2 5 4 5				15 https://www.aufbalanterian	
E Hardbardana B L					
A Datied Co.C.		-			18 (How many packs of signwitten do you smoke a day? 3 1 2 3 4 6 6 7
					12 (How many days per week do you driek aborbat? 0 1 2 0 4 5 6 7
D Unarreinant			States C C		18 of one drive equats are been or galax of error. Now much de year drive at an average sating? 8 1 2 3 4 5 6 7
a Rating 30	Fast of 54 line. Only	-			Nore C Less than 1 hour C 1 to 2 hours a west C
. MILERDER List any medication bit you	an alogic tr				
ALLENDER List any medication(s) you			Relation		
ALLENDER List any medication(s) you			station)		Dourog the pair month have you been failing down, dependend of bogelass? Ver as Dourog the pair month have you been faithment by having BBB intermedipleasures in during Bridge? Dourog the pair month have you been faithment by having BBB intermedipleasures in during Bridge?
ALLERDER List any medication by po-	Lines for which was have	Jeen him	datasi 3		During the paint mostly have you have having above, degressed or togetases During the paint mostly have you have holdered by having tittle interventiplessore in delegations During the paint mostly have you have holdered by having tittle interventiplessore in delegations During the paint mostly have you have holdered by having tittle interventiplessore in delegations During the paint mostly have you have holdered by having tittle interventiplessore in delegations During the paint mostly have you have holdered by having tittle interventiplessore in the paint mostly have been delegation.
ALLENSEE List are readerstown of pos- ALLENSEE List are readerstown of pos- Process 14 are parameters of other case Compared to the post of the	Lines for which was have	Jeen him	itatiasj 3		Dong to gain such two powers to see you can having down, depresent or togeteen? Dong to gain such two powers to see you can be formed to see the second powers in a doing theget Dong to gain such the second or togeteen to gain you can be second powers Dong to gain such the second or togeteen to gain you can be second powers Dong togeteen and second or togeteen to gain you can be second powers
ALLENDER List av redstation); po	and The which was been a a a a a a a a a a a a a	Jeen him	1	-	Experience for part or work water you have "backing dataset, degreemed or bagekeen" Developed to and inter the have public the softward by backing difference on the softward by the
Line of the second	Black for which are have 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1	Jeen him	56		
ALLENDER List av redstation); po	Land Let which use here 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Jeen him	1		
Line of the second	Black for which are have 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1	Jeen him	56		Dirang Ne year name have pays here helding datase, degenerated of high-helding Dirang Ne year name have pays here helding dataset, degenerated of high-helding dataset Dirang New
	Land Tor which and have 2 5 10 10 10 10 10 10 10 10 10 10	Jeen him	3		
ALLENSEE List are restarious) you These is an experimental in the manufacture of	Illiana far erfeld son herr 2 5 5 6 7 8 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Jeen him	55555555_		
SALABISE La av rediction por Press of an average sector and a	There are a second and a second a	Jeen him	0		Construction of the second secon
ELEMENT La pre rediction provincement p	Thinks for which are for a	Jeen him	b		
Exception of any e	There are a set of the following operation operation operation operation operation operation operation	Jeen him	b Theorem The		
ALLEDEX LATP reconcilence of the second	Section 2	Jeen him	5 6 5 754400409 64440 156000 Fridmin 64040 156000 Fridmin 640400 fridmin 166040 fridmin 166040 fridmin 166040 fridmin 166040 fridmin 166040 fridmin		
Exception of any e	There are a set of the following operation operation operation operation operation operation operation	Jeen him	b Theorem The		
ALLEDEX List by reductory productory pr	Intern for other set of the set o	Jeen him	5 6 54410,400 154410,400 15440 15440,400 16400,400 16400,4000,4000,4000,4000,4000,4000,4000		

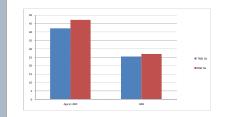
DATA ANALYSIS

- Measures of central tendency were used to describe the data.
- One-way ANOVA was used to assess
- differences between the two diagnostic groups.

SUBJECTS

N=844 patients from one outpatient physical therapy practice

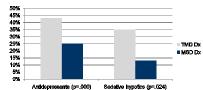
- ◆ 422 female patients with <u>TMD diagnoses</u> referred by practitioners in the dental profession
 □ mean age 42.2 (range 8-80, SD 15.76)
- BMI: 25.4
- ✤ 422 female patients with <u>MSD diagnoses</u> of the spine or extremities referred by practitioners in the medical profession
- □ mean age 47.1 (range 12-91, SD 15.92) □BMI: 26.9



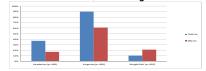
RESULTS

Patients with TMDs saw on average
4.5 HCPs before seeing a physical therapist.
In addition to being younger (p=.000),
female patients with TMDs reported more
complicated medical histories as evidenced
by:

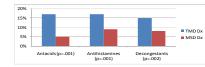
Medication use for mood disorders or neurochemical imbalances



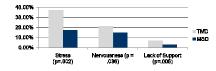
Co-morbidities, Past Surgeries



Over the counter medications



Psychosocial issues



□ There were no differences in the patients' reports of having little interest in doing things, or experiencing excessive moodiness or hopelessness.

CONCLUSIONS

Female patients with TMD reported more biopsychosocial issues than female patients with other musculoskeletal complaints.

✤ A more comprehensive understanding of the female TMD patient pertaining to their meaning of their symptoms, diagnosis, and expectations is warranted.

✤ Addressing these areas may reduce unnecessary anxiety and confusion which will have a positive impact on the physical therapist management of the female patient diagnosed with TMD.

CLINICAL IMPLICATIONS

The role of the physical therapist is expanding in the examination, evaluation, and treatment of patients with TMD.

Clinicians should have an understanding of the similarities and differences of patient presentations between these two groups in order to maximize positive treatment outcomes.

REFERENCES

 Ohrbach R, Turner J, Sherman J, et al. The Research Diagnositc Criteria for temporomandibular Disorders. IV: Evaluation of Psychometric Properties of the Axis II Measures J Orofac Pain 2010 24:48-62

♦ Orofacial Pain; Guidelines for Assessment Diagnosis, and Management. Editor Reny de Leeuw, 2008 4th ed, Quintessence Pub Co

CONTACT INFORMATION

Steve Kraus, PT, MTC, OCS, CCTT www.TMDSteveKraus.com Leslie Taylor, PT, PhD http://cophs.mercer.edu/pt.htm