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INTRODUCTION

- Psoriatic Spondyloarthritis (PsSpA) shares features of both pso arthritis and axial spondyloarthritis (axSpA).
- PsSpA consists of axial arthritis, peripheral arthritis and enthes
- Previous studies have shown that sacroiliitis in PsSpA is usual asymmetrical and has less severe radiographic changes comp to patients with axSpA.
- However, these studies have not been entirely consistent about differences in clinical characteristics and quality of life (QoL) between PsSpA and axSpA patients.

OBJECTIVE

To compare the clinical characteristics and QoL parameters in and axSpA patients.

METHODS

- A cross-sectional survey was conducted among people diagnos with SpA who initiated contact through the SAA website.
- Between July 7, 2017, and December 31, 2017, a total of 820 interviews were conducted with SAA contacts, including 720 completed via web survey (from 7750 emails) and 100 via follow over the phone (from 10,784 phone calls made to 5000 unique numbers).
- Respondents were randomly selected by assigning a number to person initiating contact with the SAA, and then choosing rand numbers for participation.
- Each respondent answered questions regarding baseline demographics, including age, sex, current treatment use, geogr region, and locations of pain.
- All respondents self-reported their physician-made SpA diagnos which included AS, uveitis/iritis, undifferentiated SpA, psoriatic arthritis, axial SpA, arthritis associated with inflammatory bowe disease, reactive arthritis, and juvenile SpA; respondents also reported duration of their disease and time since diagnosis.
- Respondents also reported specific locations of joint involveme well as any existing comorbidities or other associated condition such as high blood pressure, high cholesterol, depression, fibromyalgia, uveitis, Crohn disease/ulcerative colitis, acid reflux inflammation, irritable bowel syndrome, migraine, and balance issues.
- Respondents specified the treatment agents they were receivin the time of survey participation, including analgesics, biologics, cannabis, NSAIDs, opioids, slow-acting antirheumatic drugs (SA and steroids.
- QoL of respondents with AS was assessed based on the EASi-Qo questionnaire.
- Categorical variables were presented as the count and percenta respondents per category, and continuous variables were summarized with means.

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Assessing disease burden in patients with Psoriatic Spondyloarthritis and Axial Spondyloarthritis

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	TABLE 1					TABLE 2
osoriatic		axSpA only	PsSpA	OR (95% CI)	P-Value	Adjusted OR (95% Cl) P-value
	Male sex, n (%)	(n=664)	(n=52)		0.33	Nail pitting 4.02 (2.11-7.67) < 0.001
	Age, mean ± SD years	315 (47.4) 55.3±14.2	21 (40.4) 57.7±11.7	0.75 (0.43-1.33)	0.33 0.18 [@]	Use of apremilast 6.57 (1.97-21.90) 0.002
nesitis.	White, n (%)	593 (89.3)	48 (92.3)	1.44 (0.50-4.10)	0.64	Finger pain 2.60 (1.18-5.75) 0.02
	Annual income level >\$100,000, n (%)	227 (34.2)	21 (40.4)	1.30 (0.73-2.32)	0.37	Characteristics Independently Associated with Psoriatic Arthritis wit
ally	Employment status, full time, n	264 (39.8)	14 (26.9)	0.56 (0.30-1.05)	0.07	AS in Multivariate Analysis.
ally	(%) Age diagnosed with AS, mean ± SD					Multivariate logistic regression analysis adjusted for sex, age, ethnicity, income level, full-
npared	years	36.9±13.3	40.7±12.5		0.057 [@]	term employment status.
	Current/Previous Medication use, n (%)					ΤΛΟΙΕ 2
	NSAIDs	621 (93.5)	48 (92.3)	0.83 (0.29-2.41)	0.73	TABLE 3
pout the	Monoclonal anti-TNF Biosimilars	391 (58.9) 5 (0.8)	39 (75.0) 0 (0.0)	2.10 (1.10-4.00)	0.02*	axSpA only PsSpA P-value
	Any biologics/biosimilars	456 (68.7)	43 (82.7)	2.18 (1.04-4.55)	0.03*	Median (IQR), n=645 Median (IQR), n=51
	Naproxen	499 (76.0)	40 (76.9)	1.06 (0.54-2.06)	0.87	Total EASi-QoL 28.0 (29.0) 40.0 (25.0) 0.006 Domain Company Company <thcompany< th=""></thcompany<>
	Ibuprofen	559 (85.0)	45 (86.5)	1.14 (0.50-2.60)	0.76	Physical function 8.0 (9.7) 11.0 (10.0) 0.013
	Indomethacin	253 (39.4)	19 (37.3)	0.91 (0.51-1.65)	0.76	Disease activity 7.0 (7.0) 9.0 (4.0) 0.046
	Sulfasalazine Acetaminophen	252 (39.0) 544 (83.1)	21 (41.2) 44 (84.6)	1.09 (0.61-1.95) 1.12 (0.51-2.45)	0.76	Emotional well-being 5.0 (8.0) 9.0 (10.0) 0.016
n PsSpA	Hydrocortisone	232 (36.1)	27 (51.9)	1.91 (1.08-3.37)	0.02*	Social participation 6.0 (8.0) 11.0 (9.0) 0.002
ľ	Prednisolone	432 (66.3)	39 (75.0)	1.53 (0.80-2.92)	0.20	Quality of Life Indices Associated with Psoriatic
	Certolizumab (TNF blocker)	51 (7.9)	15 (28.8)	4.72 (2.43-9.18)	<0.001*	Arthritis with AS.
	Methotrexate Apremilast	238 (36.7) 12 (1.9)	29 (56.9) 6 (11.8)	2.28 (1.28-4.05) 6.99 (2.51-19.49)	0.004*	Statistically significant at P < 0.05, Mann-Whitney U Test PsA; IQR, inter-quartile
ocod	Secukinumab	56 (8.7)	10 (19.6)	2.57 (1.22-5.40)	0.01*	range
osed	Ustekinumab	10 (1.6)	8 (15.7)	11.78 (4.42-31.37)	<0.001*	
	Etanercept	268 (41.1)	25 (48.1)	1.33 (0.75-2.34)	0.33	RESULTS
	Adalimumab	315 (48.1)	34 (65.4)	2.04 (1.13-3.68)	0.02*	• Six hundred and sixty four patients with a physician diagnosed
	Infliximab (TNF blocker)	184 (28.2)	24 (47.1)	2.26 (1.27-4.02)	0.01*	axSpA and fifty two patients with a physician made diagnosis of
	Golimumab	65 (10.1) 98 (14.8)	9 (17.6) 10 (19.2)	1.92 (0.89-4.11) 1.38 (0.67-2.83)	0.09	PsSpA (with psoriasis, psoriatic arthritis and axial symptoms)
ow-up	Marijuana Opioids	325 (48.9)	31 (59.6)	1.54 (0.87-2.74)	0.39	responded to the SAA survey.
le	Joint involvement, n (%)					Demographic parameters such as age, race, gender, income,
	Lower Jaw	223 (33.6)	22 (42.3)	1.45 (0.82-2.57)	0.20	employment status and age at diagnosis were not significantly
	Neck Shoulders	558 (84.0)	44 (84.6)	1.05 (0.48-2.28)	0.91	different in the two groups.
to each	Ribs	461 (69.4) 350 (52.7)	35 (67.3) 29 (55.8)	0.91 (0.50-1.66) 1.13 (0.64-2.00)	0.75	• The PsSpA group was treated with more methotrexate (p=0.004)
Idom	Rib Spine	384 (57.8)	31 (59.6)	1.08 (0.61-1.91)	0.80	and biologics/biosimilars (p=0.03), either currently or in the past.
	Lumbar Spine	573 (86.3)	49 (94.2)	2.59 (0.79-8.50)	0.13#	• Knee pain ($p=0.048$), hand pain ($p=0.001$) and foot pain ($p=0.02$)
	Waist or Sacrum or Pelvis Hip Joint	470 (70.8) 533 (80.3)	35 (67.3) 41 (78.8)	0.85 (0.47-1.55) 0.92 (0.46-1.83)	0.60	were significantly more in patients with PsSpA.
	Wrist	302 (45.5)	28 (53.8)	1.40 (0.79-2.46)	0.24	 Patients with PsSpA were more likely to be associated with
graphic	Hands	375 (56.5)	42 (80.8)	3.24 (1.60-6.56)	0.001*	irritable bowel disease (p=0.008), nail pitting (0.001), and uveitis
	Knee	420 (63.3)	40 (76.9)	1.94 (1.00-3.76)	0.048*	(p=0.02) as compared to axSpA patients.
	Heel Feet	315 (47.4) 272 (41.0)	31 (59.6) 30 (57.7)	1.64 (0.92-2.91) 1.97 (1.11-3.48)	0.09	 Further these patients had worse scores for QoL measured by
nosis,	Ankle	286 (43.1)	29 (55.8)	1.67 (0.94-2.94)	0.08	using the Evaluation of ankylosing spondylitis quality of life scale
ic	Coexisting disease, n (%)					
wel	Diabetes	53 (8.0)	5 (9.6)	1.23 (0.47-3.22)	0.60	(EASiQoL) (p=0.006).
)	Fibromyalgia Heart disease	89 (13.4) 56 (8.4)	9 (17.3) 5 (9.6)	1.35 (0.64-2.87) 1.16 (0.44-3.02)	0.43	• This was true for all its four domains – physical function
	Hypertension	232 (34.9)	21 (40.4)	1.26 (0.71-2.25)	0.80	(p=0.0013), disease activity (p=0.0046), emotional wellbeing
	High cholesterol	175 (26.4)	13 (25.0)	0.93 (0.49-1.79)	0.83	(p=0.0016), and social participation (p=0.0002).
nent, as	Lupus	3 (0.5)	1 (1.9)	4.52 (0.44-42.28)	0.26	• In multivariate analysis, hand pain, nail pitting, and apremilast
ons	Osteoporosis Rheumatoid arthritis	74 (11.1) 66 (9.9)	9 (17.3) 6 (11.5)	1.67 (0.78-3.56) 1.18 (0.49-2.87)	0.18	were the only parameters that were significant, apart from QoL
	Sjogrens disease	28 (4.2)	5 (9.6)	2.42 (0.89-6.55)	0.08	indices.
lux, eye	Uveitis	194 (29.2)	23 (44.2)	1.92 (1.08-3.41)	0.02*	
ce	Depression	155 (23.3)	16 (30.8)	1.46 (0.79-2.70)	0.23	CONCLUSIONS
	Irritable bowel syndrome Migraine	213 (32.1) 215 (32.4)	26 (50.0) 22 (42.3)	2.12 (1.20-3.74) 1.53 (0.86-2.72)	0.008*	
	Nail pitting	82 (12.3)	23 (44.2)	5.63 (3.11-10.20)	<0.001*	The survey demonstrates a poor quality of life in patients with
/ing at	Comparison of Chara	cteristics be	tween Pati	ents With AS w	ith and	PsSpA as compared to axSpA, despite being less severe
cs, SAARDs),	without Concomitant Psoriatic Arthritis.					 radiographically as seen in previous studies. This may be of relevance in the development of future treatment
	*Significant P<0.05 by Pearson's Chi-square test @ Student's T-test					guidelines when this endophenotype is considered.
	REFERENCES				The unequal number of patients in each group is a mere reflection	
-QoL	• Haywood KL, Garratt AM, Jo					of the Spondylitis Association of America rather than an attempt t
-	spondylitis quality of life (E			lity of a new patient	t-reported	over represent classic axSpA.
	outcome measure. J RheunDeepak R Jadon, Raj Sengu	-		oriatic Arthritic ctu	dv.	In the future, a longitudinal cohort is required to further study not
ntage of	defining the clinical and rac					only the clinical and radiographic but also genetic differences
	Annals of the Rheumatic D	— · · ·				between these conditions.

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