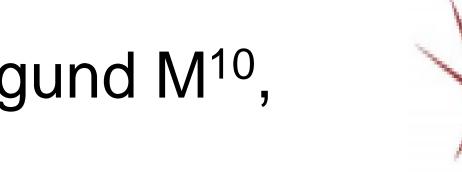
Comparison between Patients with Spondyloarthritis Managed in Community Based Care Settings to those Managed in Tertiary Research Setting in Ontario: An OBRI-SPARCC Study





Eraso M¹, Cesta A², Ye Y¹, Mohavedi M², Thorne JC³, Ahluwalia V⁴, Karasik A⁵, Chow A⁶, Averns H⁷, Khan I⁸, Bensen W*⁹, Rai R⁹, Dixit S⁹, Mulgund M¹⁰, Ciaschini P¹¹, Lau A⁹, Haaland D⁹, Inman RD¹, Haroon N¹, Gladman DD¹, Bombardier C², Chandran V¹.

¹Krembil Research Institute, University Health Network, Toronto, ²Toronto General Hospital Research Institute, University Health Network, Toronto, ³Southlake Regional Health Centre, Newmarket, ON, ⁴William Osler Health System, Brampton, ON, ⁵St. Joseph's Health Centre, Toronto, ON, ⁶University of Toronto, ON, ⁸Private practice, Mississauga, ON, ⁹McMaster University, Hamilton, ON, ¹⁰Private practice, Hamilton, ON, ¹¹Group Health Centre, Sault Ste. Marie, ON. *Deceased

INTRODUCTION

- Spondyloarthritis (SpA) represents a major burden on our society attributed to the high prevalence affecting 0.5-1.5% of the population
- The most prevalent subtypes of SpA are ankylosing spondylitis (AS) and psoriatic arthritis (PsA)
- There is little data on the clinical features and disease severity of SpA patients managed in community-based rheumatology clinics in Ontario
- Patients with SpA in community practices may have less disease severity compared to those managed in tertiary care research settings

OBJECTIVE

To describe the disease status of SpA (AS and PsA) patients in the community-based Ontario Best Practices Research Initiative (OBRI) cohort and compare it with the tertiary care SpA Research Consortium of Canada (SPARCC –AS and PsA) cohort from Toronto.

METHODS

- New or follow up patients from 11 community centres enrolled into OBRI-SpA cohort from between March 2015 and March 2017 were matched 1:1 by assessment date (+/- 1.5 year) to patients followed at Toronto SPARCC clinics seen during the same time period
- Variables: demographics, disease features, extra articular manifestations (EAM), comorbidities, patient reported outcomes (PROMs), composite measures, labs, medications
- Analyses: descriptive statistics, t-test and twoproportion z-test

RESULTS

143 PsA and 174 AS patients were enrolled in the OBRI study and were matched 1:1 to patients in the SPARCC cohort at Toronto Western Hospital

	Characteris	Characteristics of the Patient Population at Enrollment							
		PsA			AS				
	Variable	OBRI n=143	SPARCC n=143	p-value	OBRI n=174	SPARCC n=174	p-value		
Demographics	Age at visit (SD)	53.6 (12.2)	53.8 (13.8)	0.8999	49.8 (14.6)	41.7 (13.5)	<0.0001		
	Age at diagnosis (SD)	43.5 (13.4)	37.6 (12.9)	0.0003	39.4(15)	29.4 (12.5)	<0.0001		
	Female (%)	82 (57.3)	58 (40.6)	0.0045	64 (36.8)	55 (31.6)	0.235		
	Male (%)	61 (42.7)	85 (59.4)	0.0045	110 (63.2)	117 (67.2)			
	Caucasian (%)	122 (93.8)	123 (86)	<0.0001	143 (88.3)	124 (71.3)	<0.0001		
Disease Characteristics	Swollen joint count (SD)	3.5 (4.4)	1.4 (4)	<0.001	0.5 (1.7)	0.2 (1)	0.0563		
	Tender joint count(SD)	4.8 (6.8)	2.7 (5.6)	0.007	1.3 (3.5)	1 (3.3)	0.4174		
	Enthesitis (%)	23 (16.1)	19 (13.8)	0.5862	32 (18.4)	7 (4.3)	<0.0001		
	Dactylitis (%)	13 (9.1)	7 (5.1)	0.196	2 (1.1)	0	-		
	Inflammatory back pain (%)	23 (16.1)	27 (19.4)	0.4628	88 (50.6)	135 (83.3)	<0.0001		

	oronto Vestern Iospital
--	-------------------------------

Characteristics of the Patient Population at Enrollment

			PsA		AS			
		Variable	OBRI n=143	SPARCC n=143	p-value	OBRI n=174	SPARCC n=174	p-value
	EAM	Psoriasis (%)	128 (89.5)	137 (95.8)	0.0413	28 (16.1)	9 (5.2)	0.001
		Uveitis (%)	2 (1.4)	1 (0.7)	0.5616	21 (12.1)	3 (1.7)	0.0001
		IBD (%)	5 (3.5)	1 (0.7)	0.0989	19 (10.9)	22 (12.6)	0.6179
		MDA (%)	23 (16.1)	36 (25.2)	0.0575	_	_	-
	Labs	Elevated ESR/CRP (%)	44 (30.8)	100 (69.9)	<0.0001	68 (39.1)	55 (31.6%)	0.1449
	PROMS	HAQ (SD)	0.9 (0.7)	0.5 (0.6)	<0.0001	0.7 (0.6)	0.7 (0.6)	0.5461
		BASDAI (SD)	_	-	-	3.7 (2.5)	3.8 (2.4)	0.4931
		BASFI (SD)	-	-	_	3.6 (2.8)	3 (2.7)	0.0439
	Comorbidities	Depression (%)	18 (12.6)	7 (5)	0.0257	19 (10.9)	17 (10.5)	0.8997
		CVD (%)	10 (7)	6 (4.2)	0.3034	13 (7.5)	3 (1.7)	0.0105
		Cancer (%)	11 (7.7%)	3 (2.2%)	0.0347	11 (6.3)	4 (2.5)	0.0853
		Diabetes (%)	19 (13.30)	15 (10.8)	0.52	11 (6.3)	3 (1.8)	0.0394
	Rx	DMARDs (%)	107 (74.8)	57 (39.9)	<0.0001	34 (19.5)	34 (19.5)	1.000
		Biologics (%)	53 (37.1)	56 (39.2)	0.7149	101 (58)	106 (60.9)	0.5851

CONCLUSIONS

Compared with patients seen in tertiary care research setting, SpA patients in community clinics in Ontario were older at diagnosis, had more peripheral arthritis (PsA), enthesitis (AS) and worse function. Use of biologic agents were similar. Strategies for earlier triage and referral in the community may help improve functional outcomes