

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/348770159>

ABo851 CAROTID ULTRASOUND IN PSORIATIC ARTHRITIS: A CASE-CONTROL STUDY

Article in *Annals of the Rheumatic Diseases* · June 2020

DOI: 10.1136/annrheumdis-2020-eular.5228

CITATIONS

0

READS

33

10 authors, including:



Dionicio Angel Galarza Delgado

Facultad de Medicina y Hospital Universitario Dr. José Eleuterio Gonzalez, UANL

318 PUBLICATIONS 987 CITATIONS

SEE PROFILE



José Ramón Azpiri-López

Hospital Christus Muguerza Alta Especialidad, Monterrey, México

121 PUBLICATIONS 319 CITATIONS

SEE PROFILE



Iris Jazmín Colunga-Pedraza

Hospital of UANL University

164 PUBLICATIONS 353 CITATIONS

SEE PROFILE



Mayra Alejandra Reyes Soto

Autonomous University of Nuevo León

15 PUBLICATIONS 6 CITATIONS

SEE PROFILE

Abbvie, GSK, Resolve, AstraZeneca, Amgen, Eli Lilly, EMD Serono, BMS, Viela, Kyowa Kirin, Beva H. Hahn Grant/research support from: Janssen Research & Development, LLC, George Tsokos Grant/research support from: Janssen Research & Development, LLC, Shawn Rose Employee of: Janssen Research & Development, LLC, Kaiyin Fei Employee of: Janssen Research & Development, LLC, Y Irene Gregan Employee of: Janssen Research & Development, LLC, Robert Gordon Employee of: Janssen Research & Development, LLC, Kim Hung Lo Employee of: Janssen Research & Development, LLC, Ronald van Vollenhoven Grant/research support from: AbbVie, Amgen, Arthrogen, Bristol-Myers Squibb, GlaxoSmithKline (GSK), Janssen Research & Development, LLC, Lilly, Pfizer, Roche, and UCB, Consultant of: AbbVie, AstraZeneca, Biotest, Bristol-Myers Squibb, Celgene, Crescendo Bioscience, GSK, Janssen, Lilly, Medac, Merck, Novartis, Pfizer, Roche, UCB and Vertex, Speakers bureau: AbbVie, AstraZeneca, Biotest, Bristol-Myers Squibb, Celgene, Crescendo Bioscience, GlaxoSmithKline, Janssen, Lilly, Merck, Novartis, Pfizer, Roche, UCB, Vertex

DOI: 10.1136/annrheumdis-2020-eular.4596

AB0851

CAROTID ULTRASOUND IN PSORIATIC ARTHRITIS: A CASE-CONTROL STUDY

D. Á. Galarza-Delgado¹, J. R. Azpiri-López², I. J. Colunga-Pedraza¹, D. E. Flores Alvarado¹, O. Iizaliturri Guerra¹, J. C. Zárate Salinas², P. F. Frausto Lerma¹, A. Pérez Villar¹, M. A. Reyes Soto¹, A. C. Garza Acosta³. ¹Hospital Universitario "Dr. José Eleuterio González"; UANL, Rheumatology, Monterrey, Mexico; ²Hospital Universitario "Dr. José Eleuterio González"; UANL, Cardiology, Monterrey, Mexico; ³Hospital Universitario "Dr. José Eleuterio González"; UANL, Radiology, Monterrey, Mexico

Background: Patients with psoriatic arthritis (PsA) have an increased risk of cardiovascular disease (CVD). The carotid ultrasound, which measures both carotid intima-media thickness (cIMT) and carotid plaque (CP), is a non-invasive tool useful in the detection of subclinical atherosclerosis¹. However, carotid ultrasound differences between PsA patients and general population have not yet been well described.

Objectives: This study aimed to compare the carotid ultrasound characteristics in PsA patients with controls.

Methods: This cross-sectional study included 70 PsA patients that fulfilled the CASPAR (Classification Criteria for Psoriatic Arthritis) criteria and 70 controls subjects matched by age and comorbidities. Patients with a history of previous atherosclerotic CVD (ischemic heart disease, cerebrovascular accident or peripheral arterial disease) and pregnancy were excluded. A clinical history and blood tests were performed. Carotid B-mode ultrasonography was used for measurements of cIMT and the presence of plaques. *Increased cIMT was defined as ≥ 0.9 mm to 1.1 mm. CP was defined as a focal narrowing ≥ 0.5 mm of the surrounding lumen or a cIMT ≥ 1.2 mm.* Descriptive analysis was done with frequencies (%), mean (\pm SD) and median (q25-q75), and comparisons with Chi square, Student's t and Mann-Whitney U tests.

Results: A total of 138 subjects were included. Clinical and demographic characteristics are shown in Table 1. Increased cIMT and right carotid plaque were significantly more prevalent in PsA patients compared to controls ($p=0.017$ and $p=0.049$, respectively). No significant differences were found in the prevalence of carotid plaque and in the intima-media thickness between the PsA patients and the control group.

Table 1. Clinical and demographic characteristics.

Variable	PsA (n=69)	Controls (n=69)	P
Age(mean \pm SD)	53.58 \pm 10.946	53.86 \pm 7.313	NS
Women, n (%)	38(55.1)	59(85.5)	<0.001
Obese, n (%)	26(37.7)	28(40.6)	NS
Type 2 Diabetes, n (%)	14(20.3)	9(13)	NS
Hypertension, n (%)	27(39.1)	19(27.5)	NS
Dyslipidemia, n (%)	29(42)	24(34.8)	NS
Active smoker, n(%)	15(21.7)	12(17.4)	NS
Disease duration, median (q25-q75)	5(2.5-8)	-	-
Methotrexate, n (%)	46(66.7)	-	-
Biologics, n (%)	23(33.3)	-	-
DAS28-ESR, (mean \pm SD)	3.74 \pm 1.477	-	-
DAS28-CRP, (mean \pm SD)	2.43 \pm 1.088	-	-
DAPSA, median (q25-q75)	35(27.5-58.5)	-	-

Conclusion: Patients with psoriatic arthritis have a higher cardiovascular risk, as proven by the increased cIMT found on carotid ultrasound results. Therefore, it is advisable to perform a carotid ultrasound in patients with PsA to achieve an optimal management of the disease. The rheumatologist must be aware of the importance of performing a complete cardiovascular evaluation to provide a correct treatment in order to lower possible cardiac events.

References:

- [1] Lucke, M., Messner, W., Kim, E.S.H. *et al.* The impact of identifying carotid plaque on addressing cardiovascular risk in psoriatic arthritis. *Arthritis Research & Therapy* 18, 178 (2016). <https://doi.org/10.1186/s13075-016-1074-2>

Table 2. Carotid ultrasound findings.

Variable	PsA (n=69)	Controls (n=69)	P
Any carotid plaque, n (%)	27(39.1)	17(24.6)	NS
Right carotid plaque, n (%)	18(26.1)	8(11.6)	0.049
Left carotid plaque, n (%)	19(27.5)	15(21.7)	NS
Increased cIMT, n (%)	9(13)	1(1.4)	0.017
Right cIMT, median (q25-q75)	0.58(0.46-0.76)	0.6(0.51-0.69)	NS
Left cIMT, median (q25-q75)	0.58(0.5-0.73)	0.61(0.54-0.78)	NS

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2020-eular.5228

AB0852

LONG TERM FOLLOW UP OF VISCOSUPPLEMENTATION WITH DIFFERENT TYPES OF INTRA-ARTICULAR HYALURONIC ACID IN OSTEOARTHRITIS OF THE KNEES

A. K. Aggarwal¹, N. Aggarwal¹, D. Jain¹. ¹Institute of Rheumatology and Pain, Brij Medical Centre, Rheumatology & Pain, Ghaziabad, India

Background: Knee osteoarthritis (OA) is a progressive degenerative condition resulting in functional loss besides pain and discomfort.[1] The aim of treatment as of today should be joint preservation in order to prevent surgery, alleviation of symptoms and improvement of functions.

Viscosupplementation (VES) with Intra-articular hyaluronic acid (IAHA) injections has been shown to have protective physiochemical functions and may confer disease-modifying, long term effects on the articular cartilage. [2][3] However conflicting guidelines, availability of multiple varieties, and absence of good studies or any treatment protocol has resulted in lack of confidence of the results of IAHA.

Objectives: To determine the Long term effectiveness of VES with various types IAHA in OA in maintaining functional improvement of the knees and evaluate the duration of effect of first and repeat injections of VES.

Methods: From the 15 year retrospective longitudinal study of data of VES with different types of IAHA in our Centre, we evaluated the following outcomes:

- The WOMAC scores were regularly done on each visit of the study group. Those with maintained improvement in the WOMAC total score were followed and reinjected when the scores started decreasing.
- All patients who were given Non Animal Source Hyaluronic acid (NASHA) were included in the study. Patients with repeat IAHA were further evaluated for Type of NASHA used and were categorized into 2 groups accordingly:
 - Those with High Molecular weight Hyaluronic acid (HMW-HA) 6-8mg/ml – 6 ml single injections
 - Those with Very High Molecular weight, Cross linked Hyaluronic acid (VHMW-HA) 20- mg/ml – 3ml injections.

Results: The total number of patients treated over the last 15 years was 1206 with 689 having Kellgren and Lawrence (KL) Grade III OA, and 517 KL Grade IV OA. The data showing distribution of type of IAHA used in the group, the average Gap between the injections with the Range in years for the least gap and the longest gap between the injections, along with the follow up to giving the 3rd injection was given is summarized in Chart 1: Time gap between repeat IAHL injections in OA knees.

Chart 1. Time gap between repeat IAHL injections in OA knees

OA GRADE &	I INJ	II INJ	III INJ
VISCOUS TYPE	N = 1206	Gap 1	Range N =782
KL GRADE III OA	N = 689	N = 442	Gap 2
Group A:HMW-HA	237	0.92	0.8 -1.6
Group B:VHMW-HA	452	2.54	1.8-3.4
KL GRADE IV OA	N = 517	N = 340	Range N = 578
Group A:HMW-HA	154	1.02	0.6-1.2
Group B:VHMW-HA	363	2.01	1.4-2.3

Gap 1 - Average Time between I & II inj.in years, Gap 2 - Average Time between II & III inj. in years

Range - Being the time in years for the least & the longest Gap between the injections

HMW-HA - High Molecular weight Hyaluronic acid

VHMW-HA - Very High Molecular weight, Cross linked Hyaluronic acid