

Characteristics of an Internet-Based, International Cohort of Patients with a

Self-Reported Diagnosis of Urticarial Vasculitis

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INTRODUCTION

Urticarial vasculitis (UV) is a rare disease (annual incidence of < 1 per million). This rarity makes it difficult to conduct large trials.

AIMS

To describe and validate an international cohort of patients with UV based on patient-reported data.

METHODS

- Internet-based longitudinal registry
- Enrollment period: 11/2014-2/2022
- All patients with a self-reported diagnosis of urticarial vasculitis were included
- Standardized online data collection forms
- 2012 Chapel Hill Consensus Conference (CHCC) definition of hypocomplementemic urticarial vasculitis (HUVS) met if all three of the following were present:
 - a) Biopsy showing vasculitis
 - b) Low serum levels of C3 or C4
 - c) Any of the following manifestations: kidney, joint, obstructive lung disease, or

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RESULTS			
Baseline Demographics		Means of Diagnosis	
Enrollment	102		<u>N (%)</u>
Female (%)	92 (90)	Biopsy results	84 (82)
Mean age at symptom onset (SD)	40.5 (15.0)	Based on symptoms	58 (57)
Mean age at diagnosis (SD)	44.1 (13.2)	Laboratory testing of the blood	45 (44)
low (3 or (4 (%)	31/59 (53)	Radiographic testing	7 (7)
Skin biopsy done (%)	89/99 (90)	Other	4 (4)
Skin biopsy with vasculitis (%)	77/89 (87)	Unsure	Z (Z)
Skill blopsy with vasculitis (%)		Medication Use (Ever)	
Met CHCC criteria for HUVS (%)	23/31 (74)		<u>N (%)</u>
		Glucocorticoids	89 (87)
		Dapsone	27 (26)
Symptoms/Manifestations		Hydroxychloroquine	26 (25)
	<u>N (%)</u>	Colchicine	23 (23)
Hive-like rash	102/102 (100)	Methotrexate	19 (19)
Severe joint pain or swelling	77/93 (83)	Antihistamines	18 (18)
Severe muscle pain	73/94 (78)	Azathioprine	16 (16)
Nerve damage	56/77 (73)	Omalizumab	8 (8)
Abdominal pain	49/79 (62)	Aspirin	8 (8)
Fever	32/78 (41)	Mycophenolate mofetil	7 (7)
Inflammation in one or both	32/87 (37)	Cyclosporine	5 (5)
eyes		Rituximab	4 (4)
Lung involvement	28/84 (33)	TNF inhibitors	3 (3)
COPD or Asthma	37/91 (41)	Plasmapheresis	1(1)
Weight loss	19/92 (21)		. (.)
Kidney involvement	17/88 (19)	Physician Managing Vasculitis (Top 4)	
CNS involvement	6/80 (8)		<u>n (%)</u>
Pericarditis	5/74 (7)	Rheumatologist	52 (51)
Thrombosis	5/87 (6)	Primary Care Physician	35 (34)
Any systemic manifestation	85/102 (83)	Dermatologist	26 (25)
Positive ANA	33/64 (52)	Allergist/Immunologist	16 (16)



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VASCULITIS PATIENT-POWERED RESEARCH NETWORK

- The diagnosis of urticarial vasculitis is clinicopathological, based on presence of urticaria and histologic confirmation
- All patients in this cohort reported urticarial lesions, the majority of which were confirmed by biopsy
- All clinical manifestations reported are consistent with physician-reported cohorts CONCLUSIONS

Internet-based cohorts incorporating patientreported data are a means for future conduct of clinical trials in extremely rare diseases, such as urticarial

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