SCRIPPS CLINIC - Division of Neurology JOHN R ANDERSON V MEDICAL PAVILION Autonomic Neuro Lab 9898 Genesee Ave, La Jolla, CA 92037 Telephone: 858-824-5474 FAX: 858-964-3126 Patient MRN: 810034123

Patient Name: HEYDARI, PEYMAN

02/02/1970

Test Date: Referring Dr: WHITE, ANDREW

Clinical Problem: Disorder of autonomic nervous system; Dysautonomia

AUTONOMIC REFLEX SCREEN

Comments:

- 1. HR responses to deep breathing and Valsalva maneuver were normal.
- 2. Beat-to-beat response to Valsalva maneuver was normal.
- 3. Patient was tilted for 10 min. Beat-to-beat BP showed a brief, but pronounced reduction in systolic and diastolic BP during the first 30 seconds after table was tilted to 70°. Patient reported lightheadedness (felt he was in a rollercoaster) and felt stomach ache when the table was tilted to 70°. Beat-to-beat BP recovered 1 min after tilt and orthostatic hypotension was not demonstrated. HR response was generous but not excessive. Beat-to-beat BP showed an increase in BP oscillations after 5 min of head-up tilt. Patient reported fatigue, chest tightness, calf soreness, brain fog (out of it) and right knee weakness during head-up tilt. Patient felt toes tingling and legs tightness/cramp toward the end of the head-up tilt. After tilt back, patient reported brain fog improved, patient had no chest discomfort and legs felt better.
- 4. QSWEAT response was normal over the forearm and foot sites and reduced over the proximal and distal leg sites. Impression: Abnormal study. Cardiovagal and adrenergic function are normal. There is sudomotor dysfunction which is consistent with a small fiber neuropathy. There is no evidence of significant orthostatic intolerance on this study.

Deep Breathing HR		Parameter R Range (bpm) alsalva Ratio	opm) 20.0		Normal Values [> 10.0] [> 1.44]	· · · · · · · · · · · · · · · · · · ·	Percentile % 44 48	
		BLO			ATE RESPONSE		T	
			Val	ues with patien	t to 70° head-up til	t		2
	(mmHg) IR (bpm)	Supine 117/81 85	30 sec 99/68 109	1 min 115/84 105	5 min 117/86 93	7 min 116/86 108	10 min 118/80 109	3 min post tilt 113/75 91
			OHANTITATIV	'E AYON REEL	EX SWEAT TEST	(OSWEAT)		
Site R R R	Forearm Proximal L Distal Leg Foot	Current (mA) 2 eg 2 2 2	Test Duration (min) 10 10 10 10 10	Latency (min) 1.92 1.82 1.37 2.28	Normal values (min) [0.90 – 2.90] [0.50 – 2.20] [0.80 – 3.90] [0.80 – 3.90]	Sweat Output (µl/cm²) 2.10 0.58 0.77 0.82	Normal Values [> 0.76] [> 0.93] [> 0.98] [> 0.78]	QSweat Percentile % 33 < 5 < 5 6
		_	10	2.20	[0.00 - 0.00]	0.02	[-0.70]	
COMPASS 31 DOMAIN			SEVERITY SCORE	% MAX	FATIGUE SEVERITY SCALE (FSS):):57	
0	rthostatic In	tolerance (Max 40) 24	60				
	\	/asomotor (Max 5		0	TECHNOLOGIST:		14162	0
	Secre	etomotor (Max: 15	,	43				
	Gastroi	ntestinal (Max: 25		46	PHYSICIAN: Mary A. Kalafut, M.D.			•
Bladder (Max: 10))0	0				
Pupillomotor (Max:5)				20				
		Total (Max: 100)	43.0	43	_			
			10.					

Electronically signed by Jose R Criado Del Valle at 1/15/2018 2:04 PM

Procedure visit on 1/9/2018

Chart Review Routing History

Encounter Date: 01/09/2018

SCRIPPS CLINIC - Division of Neurology JOHN R ANDERSON V MEDICAL PAVILION

Autonomic Neuro Lab

9898 Genesee Ave, La Jolla CA 92037 Telephone: 858-824-5474 FAX: 858-964-3126 Patient MRN: 810034123

Patient Name: HEYDARI, PEYMAN

Date of Birth: 02/02/1970 Test Date: 01/09/2018

Referring Dr: WHITE, ANDREW

Clinical Problem: Transient alteration of awareness

VASOMOTOR REACTIVITY TEST

Patient was tilted for 10 min. Beat-to-beat BP showed a brief, but pronounced reduction in systolic and diastolic BP during the first 30 seconds after table was tilted to 70°. Patient reported lightheadedness (felt he was in a rollercoaster) and felt stomach ache when the table was tilted to 70°. Beat-to-beat BP recovered 1 min after tilt and orthostatic hypotension was not demonstrated. HR response was generous but not excessive. Beat-to-beat BP showed an increase in BP oscillations after 5 min of head-up tilt. Patient reported fatigue, chest tightness, calf soreness, brain fog (out of it) and right knee weakness during head-up tilt. Patient felt toes tingling and legs tightness/cramp toward the end of the head-up tilt. After tilt back, patient reported brain fog improved, patient had no chest discomfort and legs felt better. R MCA velocity decreased by as much as 39% during head-up tilt. An increase in oscillations in R MCA velocity was observed during head-up tilt.

Impression: Normal vasomotor reactivity test.

R MCA-MFV AND HEART RATE RESPONSE TO HEAD-UP TILT Values with patient to 70° head-up tilt

Values with patient to 70 mous-up the							
	Supine	30 sec	1 min	3 min	7 min	10 min	1 min post
R MCA MFV							F-5-5-5
(cm/sec)	43.0	31.1	26.1	42.7	48.5	41.2	44.0
Standard Deviation	1.9	2.4	1.7	5.9	2.7	3.7	1.7
Percent Change		- 27.7	- 39.3	- 0.7	12.8	- 4.2	2.3
HR (bpm)	85	109	105	_102_	108	109	93_
Respiration Rate (breaths/min)	39	35	39_	31	39	37	38
EtCO2 (mmHg)	14	_7_	17	10	16	12	

VASON	MOTOR REACTIVITY	(VMR)		
Breath-holding	Length of time	% Increase MFV	Breath-holding	Normal Value

L	55.4	66.6	28	(from baseline) 20.1	0.8	[>0.69]
R	51.6	66.2	28	28.4	1.1	[> 0.69]

TECHNOLOGIST: 141620

PHYSICIAN: Mary A. Kalafut, M.D.

Baseline

Electronically signed by Jose R Criado Del Valle at 1/15/2018 2:06 PM

Procedure visit on 1/9/2018

Side

Chart Review Routing History

Vascular Ult transcranial doppler complete [IMG1957]

Status: Final result

PACS Images

Show images for Vascular Ult transcranial doppler complete

Impression

IMPRESSION: Negative for significant intracranial arterial stenosis

bilaterally.

EXAMINATION: Vascular Ult transcranial doppler complete

This 47 y.o. male was seen in the Vascular lab for evaluation of intra-cranial arterial flow presenting with history of presyncope.

FINDINGS: Transcranial Doppler evaluation demonstrates normal flow velocities in the bilateral MCA/ACA/PCA, ophthalmic, and terminal portion of the internal carotid artery, as well as throughout the vertebral/basilar system. The siphon portion of the internal carotid artery was not appreciated.

TCI/TCD Velocities: (mean)

Vessel: Right:

Left: MCA (Dst)

(40cm/s) (26cm/s) MCA (Prx) (57cm/s) (55cm/s)

ACA (50cm/s) PCA (40cm/s) (29cm/s) (22cm/s)

(not apprec) Siphon

(not apprec)

VERT

(31cm/s)

(30cm/s)

BASILAR (Prx)

(35cm/s)

BASILAR (Dst)

(37cm/s)

Technologist: (141620)

Image Study SmartPhrase Guide

Vascular Ult transcranial doppler complete (Order #465224132) on 1/9/18

Signed by

Date/Time

Phone

Pager

KALAFUT, MARY ANN

1/09/2018 23:11

858-824-5400

Exam Information

Status

Exam Begun Exam Ended

Final [99]

1/09/2018 07:30

1/09/2018 10:00

External Results Report
Open External Results Report

Encounter
View Encounter

Reviewed By List

Andrew Allen White, MD on 1/11/2018 12:52 PM

Order Report

Vascular Ult transcranial doppler complete (Order #465224132) on 1/9/18

Reprint Order Requisition

Vascular Ult transcranial doppler complete (Order #465224132) on 1/9/18