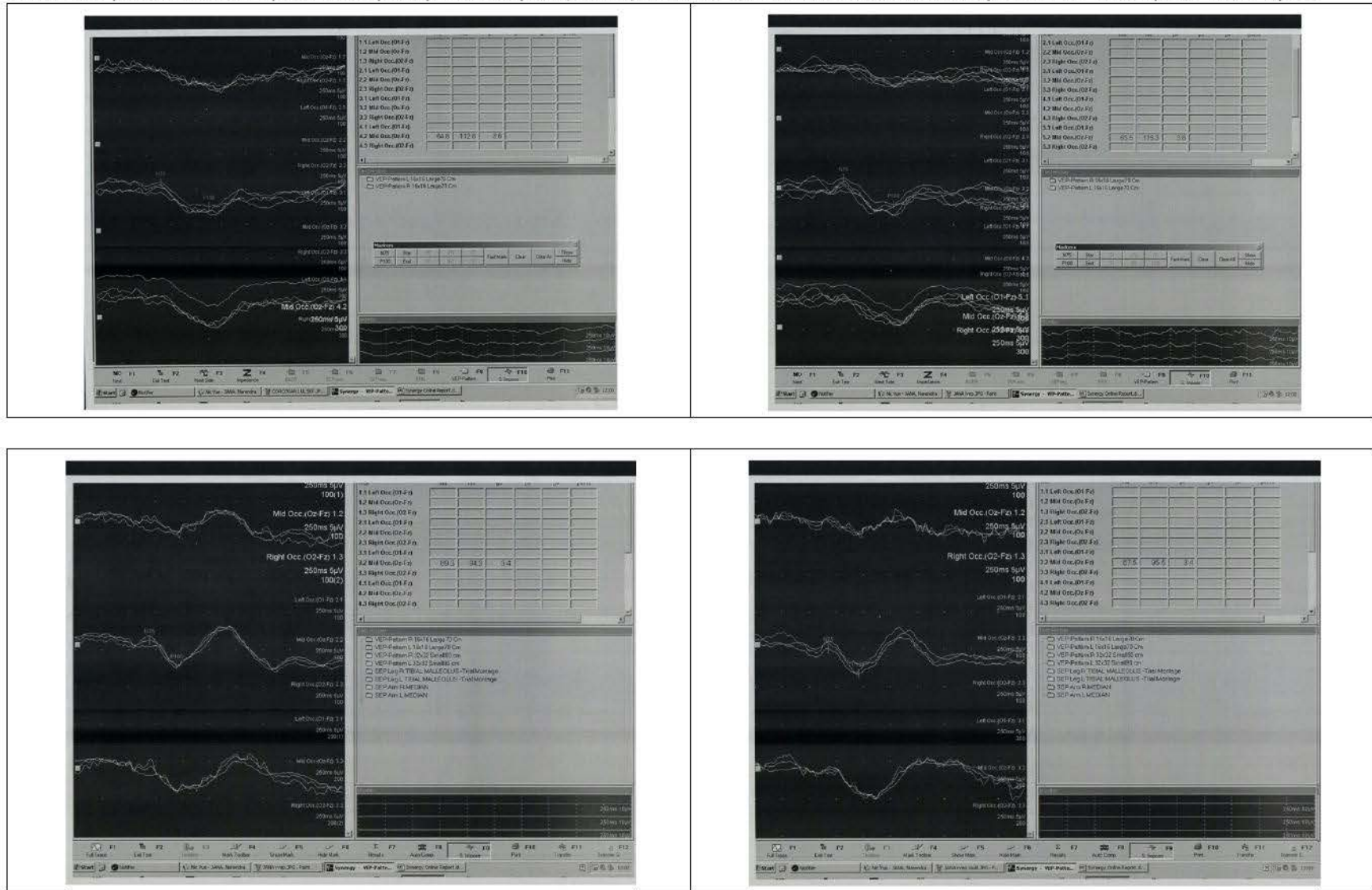


### Figure 6 – VEP Test is Substantiated as a Medication Response

The VEP test from UCLH (shown below) was preceded by 3 VEP tests in different medical settings and an ophthalmology test to check the prevalence of optic neuropathy in the optic (nerve) disk. All former VEPs show latency in either one eye or both eyes.

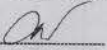



There may be reduced amplitude but there is no latency demonstrated in the UCLH waveform.

The clinical significance in this test would be medication response and indicates the effectiveness of Rituximab in secondary progressive MS. Rituximab was given in July for the third time shortly before Dr. Trip's August appointment.

The UCLH test data also fits Dr. Trip's statement in his appointments that "VEPs/SEPs aren't used to describe latency, though useful [since latency changes often due to vacillations in inflammation]. They are used to determine damage (lesions) from former inflammatory periods."

The reports from the former VEPs are given below:

<p>Mr. Narendra Nirmal Jana      102536440      10-Aug-18 08:01</p> <hr/> <p><b>Interpretation:</b></p> <ul style="list-style-type: none"><li>- Slightly delayed average P100 latency of left eye (118 ms.; normal range 89 - 117 ms.).</li><li>- Normal average P100 latency of right eye.</li><li>- Prolong right-left P100 difference (13 ms.; normal range &lt; 7 ms.).</li><li>- Low left P100 amplitude, low normal right P100 amplitude.</li></ul> <p><b>Conclusion:</b> At present, the findings suggest conduction defect in left visual pathway, anterior to optic chiasm. The lesion could be left optic neuropathy, left retinal disease. Please clinically correlate.</p> <p> Wasin Kulsomboon, M.D.</p> <hr/> <p>2</p>	<p>Mr. Narendra Nirmal Jana      ID #: 00033626</p> <hr/> <p><b>Neurophysiology Division      Department of Neurosciences</b> Indraprastha Apollo Hospitals, New Delhi, 110044, INDIA www.apollohospitals.com +91 11 2987-3021, 2692-5958</p> <hr/> <table><tr><td>Name:</td><td>Mr. Narendra Nirmal Jana</td><td>Patient ID:</td><td>00033626</td></tr><tr><td>Address:</td><td>ip-240818 Apd1.10961238;4429</td><td>Age:</td><td>34 y</td></tr><tr><td>Gender:</td><td>Male</td><td>Date:</td><td>15/Jan/2019</td></tr><tr><td>Ref. Physician:</td><td>Dr P.N. Renjen</td><td></td><td></td></tr></table> <p>Background of MS since 2008 admitted for treatment with Rituximab.</p> <p>Full field Pattern reversal VEPs were obtained from an Oz-Fz channel following independent stimulation of either eye. Well replicable and symmetric responses were obtained both sides, with the major positive peak P100 latency mildly prolonged at 130 ms either eye.</p> <p>IMPRESSION :: Pattern VEPs reveal bilateral symmetric, mild demyelinating optic neuropathy.</p> <p> <b>dr. bhanu pant, mbbs, md(med), dm(neuro)</b> sr. consultant, neurology (neurophysiology) drbhanupant@gmail.com ; bhanupant@hotmail.com</p> <hr/> <p>Page 1</p>	Name:	Mr. Narendra Nirmal Jana	Patient ID:	00033626	Address:	ip-240818 Apd1.10961238;4429	Age:	34 y	Gender:	Male	Date:	15/Jan/2019	Ref. Physician:	Dr P.N. Renjen		
Name:	Mr. Narendra Nirmal Jana	Patient ID:	00033626														
Address:	ip-240818 Apd1.10961238;4429	Age:	34 y														
Gender:	Male	Date:	15/Jan/2019														
Ref. Physician:	Dr P.N. Renjen																

Mr. Narendra Nirmal Jana

ID #: 00034553

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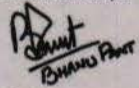
Name: Mr. Narendra Nirmal Jana      Patient ID: 90034553  
Address: LP-265391;Apd1,10961238;;Bd-4404      Age: 34 y  
Gender: Male      Date: 16/Jul/2019  
Ref. Physician: Dr.P.N.Renjen

Background of MS admitted for Rituximab Rx.

Full field pattern reversal VEPs from either eye were modestly well replicable. The major positive peak P100 latency was prolonged at 130 ms left eye, and 133 ms right eye.

**IMPRESSION :::**

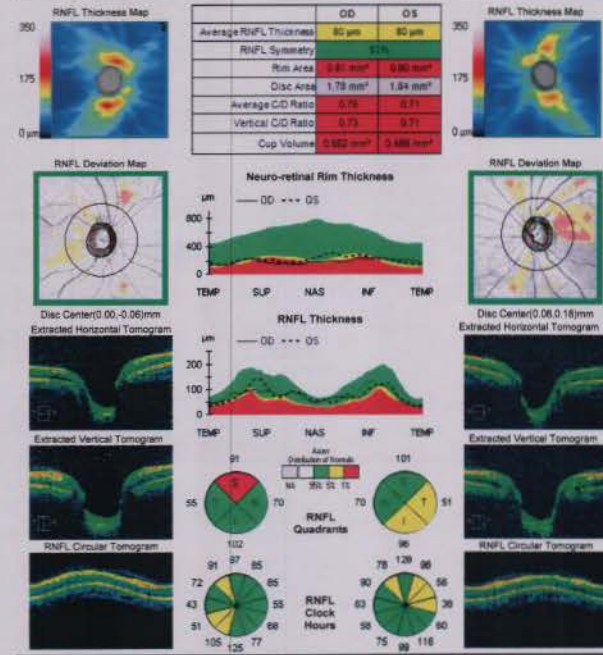
Pattern VEPs reveal bilateral demyelinating optic neuropathy, right eye slightly more affected than left eye.



**dr. bhanu pant**, mbbs, md(med), dm(neuro)  
sr. consultant, neurology (neurophysiology)  
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Name: Narendra Nirmal, Jana      OD      OS  
ID: 102536440      Exam Date: 8/10/2018      8/10/2018      Bunnimgrad International  
DOB: 10/27/1984      Exam Time: 11:54 AM      11:54 AM  
Gender: Male      Serial Number: 4500-4878      4500-4878  
Technician: Operator, Cirrus      Signal Strength: 8/10      8/10

**ONH and RNFL OU Analysis:Optic Disc Cube 200x200**      OD      OS



Ophthalmology test.

The ophthalmology test demonstrates optic neuropathy. Machine ophthalmology tests are statistically and mathematically based, Dr. Trip's statements aren't.



On examination he looked well. He read 15 out of 17 Ishihara plates correctly with both eyes. Pupil responses were normal. He had a fairly symmetrical constriction of visual fields in both eyes but this followed a cylindrical pattern. Optic discs were not unequivocally pale. Eye movements were full with no INO. On testing facial sensation he reported that pinprick was reduced on the left side of the face. Facial power was normal. In the upper limbs there was initially a delayed shoulder shrug on the left which was not reproduced. Tone was normal. Power was grade 5 throughout. Coordination was normal although slower on the left and reflexes were just present and symmetrical. The only sensory deficit was reduced pin prick affecting the fingers of the left hand. In the lower limbs, tone, power and coordination were normal. Reflexes were just present with reinforcement and plantar responses bilaterally flexor. Sensory examination was normal. His gait was entirely normal.

Dr. Trips statement that the “optic discs were not unequivocally pale” is completely negated along with most of his other statements.

As far as optic neuropathy due to MS is concerned, its undoubted and repeatedly demonstrated from recorded clinical data.