

Pontine Lesion Presenting as Trigeminal Sensory Neuropathy

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Trigeminal sensory neuropathy is a clinical diagnosis in which the main feature is facial numbness limited to territory of one or more sensory branches of the trigeminal nerve. We describe a 46-year-old woman who presented with left facial numbness in the territories of maxillary nerve and mandibular nerve. MRI disclosed a lesion in left trigeminal nerve root entry zone. In Blink test stimulating infraorbital foramen, ipsilateral R1 was delayed compared with contralateral R1. Lesion in pons or medulla can present as trigeminal sensory neuropathy.

Key Words: Trigeminal sensory neuropathy, Pontine, Blink reflex

10

가

1-9

3,5,6 R1 가 R1

9

7

1

Lhermitte

, FANA, ANCA, Anti-SSA/Ro Ab, Anti-SSB/La Ab, Angiotensin converting enzyme 120 mmHg

62 mg/dl, 55 mg/dl IgG index 0.3 HSV, EBV, CMV, VZV, Enterovirus PCR oligoclonal band, myelin basic protein MRI (T2; trigeminal root entry zone) T2

46 가

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FLAIR
gadolinium
(Fig. 1).

(TREZ; trigeminal root entry zone)
(dorsolateral) 가

(Blink test)

(Table

1).

가

(Table 2).

TREZ

가 1,2,3,6

Kaneko 1

, Kamitani

2

가

Carpenter 6

가가

Table 1. The Blink Reflex of the patient

Stimulation	recording	R1 latency (msec)	R2 latency (msec)
Rt	Rt	10.3	35.1
	Lt		32.9
Lt	Rt		32.9
	Lt	10.6	30.3

Table 2. The Blink Reflex stimulating the infraorbital nerves

Stimulation	recording	R1 latency (msec)	R2 latency (msec)
Rt infraorbital nerve	Rt	22.1(24.1)	39.0(41.6)
	Lt		37.7(37.9)
Lt infraorbital nerve	Rt		40.6(39.2)
	Lt	28.0(24.7)	41.6(38.6)

Note that the left R1 latency was delayed.

() values are mean of 3 normal healthy men, mean age = 20 yrs old.
(method) We stimulated at infraorbital foramen and placed reference electrodes near medial canthus and active electrode just laterally to lateral canthus.



Figure 1. In Brain MRI, there was a lesion in the entry zone of left trigeminal nerve root, which shows a high signal intensity in T2 weighted image (A) FLAIR image (B) and enhancement after gadolinium injection in T1 weighted coronal image (C) (see yellow arrows).

sensory testing) (MSP) MSP (QST; quantitative Masseter silent period 가 가^{4,10}

가

가

가

Chaudhry¹⁰

가

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R2 40% R1 R1 22

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MRI gadolinium 가 TREZ

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MRI