

Case Presentation

History of present illness:

59-year-old male, active smoker with no past medical history presented with sudden onset left sided headache, sensory loss, and visual deficit.

Physical exam:

Left hemi-anesthesia except for minimal sensation along CN V with extinction along V3, left hemianopia, and left limb ataxia with no proprioception (all joints). Strength was normal (5/5) on the left side.

Clinical and Rehabilitation course:

On admission to acute inpatient rehabilitation (AIR), ambulated knee with he hyperextension only 10 feet in the parallel bars with moderate assistance. Examination revealed absent light touch of the left tongue and buccal mucosa. The patient could discern salt and sweet on the left tongue though in a fashion. diminished Food greatly consumption and appetite were normal during inpatient rehabilitation.

Discharge functional status:

Patient progressed to walking 200 feet with rolling walker and contact guard but no verbal cues were need to increase knee flexion

Positive discrepancy of functional improvement over sensory perception ambulation vs proprioception, appetite vs taste in a patient with unilateral thalamic lesion: a case report

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Labs and imaging

MRI head: Right temporal, occipital, thalamic and midbrain ischemic stroke.

Figure 1. CT perfusion demonstrating a left occipital **infarct. (Source:** radiologymri.blogspot.com)



Figure 2. CT head demonstrating Right thalamic infarct. (Source: radiologymri.blogspot.com)



The question of motor learning in the absence absence near Of or proprioception has been debated since 19th century. Our case shows the significant functional improvements in ambulation despite minimal sensory illustrating that thus return proprioception does not seem to be necessary for motor learning and despite severely diminished somatosensation and taste, sensation in half of his tongue is enough to preserve appetite and therefore normal food consumption. This is to our knowledge the first description of comparison somato-sensation vs. taste sensation for a patient with a thalamic lesion.

Patients with unilateral thalamic stroke and even profound sensory loss seem to have a very favorably acute inpatient rehabilitation prognosis. Further control studies of such patients are warranted as are neuroimaging studies to look for neuro-substrates functional for improvement.



Metropolitan

Discussion

Conclusions