Forel-H field was stereotactically attempted for the treatment of epileptic convulsions in 10 patients with convulsive seizures of frequent occurrence, and complete or incomplete elimination of convulsion was obtained in the period of postoperative one to three months, while absence remained after the operation as before and the postoperative electro-encephalogram showed no change from the preoperative one.

B2. Stereotaxic Surgery.

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B3. Stereotaxic Surgery for Abnormal Involuntary Movements.

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In this symposium the following points have been discussed.

1) 59 cases with abnormal involuntary movements have been treated with stereotaxy in our clinic for the past two and half years. Based on these experiences it was found that rigidity or rigidospasm might be alleviated by making lesion in the medial globus pallidus, choreoathetosis and spasmodic torticollis by in the ventrolateral thalamic nucleus, especially in the oral anterior ventral nucleus as well as oral internal ventral nucleus, and tremor and rigidity by in the region of the zona incerta including H_1 and H_2 at the level of the oral posterior ventral nucleus.

2) In 12 cases with spasmodic torticollis which have been treated with stereotaxy, 5 were excellent, 4 improved and 3 unchanged. In analyzing the preoperative EMG findings in these cases, it was found that in cases in which muscles on both sides of the neck, especially on the same side of the chin deviation were found to be involved not associated with other dystonic movements, good results were not obtained by stereotaxy.

3) Experimental spasmodic torticollis-like posture has been produced in cats by lesions in the mesencephalic tegmentum. In these many cases with lesion in the mesencephalic tegmentum it was found that complete recovery could not be obtained by lesion in the basal ganglia. In connection with these results, the physiological relationship between the mesencephalic tegmentum and cervical neck muscles has been discussed.

4) Objective methods of recording the rigidity and tremor which we have been doing in our clinic have been discussed.