

## Conference Abstract

DAY 1 15<sup>th</sup> September 2023 (Friday)

ORAL 2

3.30-5.00 pm

Scientific Session 7

**A Morphological Study of Interthalamic Adhesions in Northern Karnataka Brains:  
A Cadaveric Study****Navya Sharma, Suma Dnyanesh, Anushka Dungarwal, Shilpa MBhimalli**

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**Introduction:** Interthalamic adhesion (ITA) or massa intermedia is a neuroanatomical structure that acts as a bridge of tissue joining the medial surfaces of the two thalami. In humans, the ITA is variable; it is noteworthy since it has been linked to dopaminergic modulation of the limbic system in the Substantia Nigra and Caudate nucleus.

**Aim:** To determine the prevalence, location, and dimensions of adhesions (ITAs) in brains of Northern Karnataka region.

**Materials and Methods:** Fifty midsagittal sections of adult cadaveric brains were examined for the presence, absence or duplication of ITAs, their location on the lateral wall of the third ventricle.

**Result:** ITA was found in 37 sections (74%). In 13 cases, ITA was absent (26%). In 6 cases, it was double (12%). It was most commonly located in the anterosuperior quadrant. The mean horizontal diameter and range was more than mean vertical diameter and range in all the brains. Its average area (12.53 mm<sup>2</sup>) showed tremendous variation (ranges between 5.1 mm<sup>2</sup> to 70.5 mm<sup>2</sup>).

**Conclusion:** Absence and duplication of ITA are fairly common in Northern Karnataka brains. No correlation was found between the surface area of the ITA and the length of the third ventricle.

**Keywords:** Massa intermedia, cadaver, interthalamic adhesions, commissures, third ventricle.