

## C0125 - ELICETING SMILE AND LAUGHTER DURING THE BRAIN MAPPING FOR THE RESECTION OF A RIGHT SUPERIOR FRONTAL GYRUS ASTROCYTOMA

**L. Fernández Tranche<sup>1</sup>, J. Martino<sup>2</sup>, E. Gómez<sup>2</sup> and C. Santos<sup>2</sup>**

<sup>1</sup> Hospital Universitario de Basurto, Vizcaya, Spain. <sup>2</sup>Hospital Universitario Marqués de Valdecilla, Santander, Spain.

### Resumen

**Objectives:** The cerebral representation of laughter is unclear. Prior studies had elicited laughter during electrical stimulation of the supplementary motor area and the cingulum with depth electrodes.

**Methods:** The present video reports a right superior frontal gyrus astrocytoma resection with awake intraoperative electrical stimulation mapping.

**Results:** The subcortical stimulation at the cingulate fasciculus elicited patient smile and laughter without mirth or merriment.

**Conclusions:** The present finding supports the role of the cingulate fasciculus in the motor aspect of laughter.