**EP08.20- Human corpus callosum development, during early second trimester**

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**Introduction:** we aimed to describe the early pattern of human corpus callosum (CC) development by high-resolution 3D transvaginal neurosonography, during early second trimester.

**Methods:** we retrospectively analyzed the midsagittal view of 14-17 weeks normal fetuses, and measured the total CC, ant. CC, CC height. We correlated all measurements to the TCD.

**Results:** we included 89 fetuses. We found high correlation between CC length and height to TCD. The CC elongates bi-directionally, with the posterior growth significantly greater than the anterior one.

**Conclusions:** Fetal brain mid-line anatomy can be studied by transvaginal neurosonography as early as 14 weeks. We provide in-vivo proof to the bi-directional theory of human CC development, that until now has been described only by post mortem studies.