

Discussion: This study has shown for the first time that LRG1 protein is detectable in placental tissue, and LRG1 expression levels are also elevated in placentas from pregnancies that require insulin. Maternal and cord levels of circulating LRG1 were significantly increased in pregnancies complicated by diabetes compared to control. Irrespective of patient type, LRG1 levels were significantly higher in the maternal circulation compared to the fetal circulation.

Ongoing work: Further work is also required to determine the pathological significance of elevated LRG1 in placental tissue of offspring born to mothers with diabetes. We plan to assess the vessel density in placental samples and its association with LRG1 as a possible mechanism of neovascularisation.