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## Amount of calcification and fibrosis in placentas: A comparative study from hypertensive, diabetic and normal pregnancies

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Examination of placenta can generate facts that might be necessary in the first line or later management of mother and infants. Among the reasons it has been seen that diabetes & hypertension are specifically the ones causing more destruction to placental structure & altering its function as a consequence. In our part of the world and specifically Pakistan a very little research has been carried out regarding this very important issue.

A cross sectional comparative study was done with Non probability, purposive sampling. These subjects were divided into 3 groups. Group A - control, group B - diabetic, & group C as hypertensive. After gross examination, microscopy was done for fibrosis of placental tissue and calcification of stroma. Statistical analysis was done on SPSS 16.as a result of these study, the following outcomes were reported. Abnormalities in cut surface were 10% in group "A", 58% in group "B", 52% in group "C". Amount of calcification in stroma in group "A" (2 %) compared to group "B" (12 %), group "A" (2 %) compared to group "C" (16 %) p-value (<0.005) was statistically significant. No. of Villi with fibrosis in group "A" (2.88) compared to group "B" (9.04), group "A" (2.88) compared to group "C" (6.00) showed p-value (<0.005) significant also. Average fibrosis in placental tissue & Calcification in stroma, was significant in both diabetics & hypertensive in comparison to the control group. Control group patients had 90% normal cut surface whereas, abnormality was seen mostly in the other 2 groups.

### Biography

Farrah Shams has completed MBBS from frontier medical college, and completed M. Phil (post graduate) in Anatomy (basic medical sciences) from Dow University of health sciences. She has worked as Assistant Professor in Dow Medical University Karachi, Pakistan. Currently working as Assistant Professor in Batterjee Medical College, Jeddah, Saudi Arabia. She has published 3 papers in reputed journals.

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