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## **WOUND CARE, TISSUE REPAIR & REGENERATIVE MEDICINE**

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## AMNIOTIC MEMBRANE -NOVEL APPROACH FOR WOUND HEALING

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**Background:** The management of gaped wounds is a great challenge for the surgeons. Human amnion is a readily available and cost effective dressing material for these gaped wounds.

**Aims:** The present study was carried out to study the efficacy of human amnion in gaped wounds following various obstetric and gynecological surgeries.

**Settings and design:** A prospective and comparative study conducted in the department of obstetrics and gynecology at a tertiary care centre in North India.

**Methods and Material:** Sixty patients with wound gaping were randomly allocated into 2 groups, group A (n-30) had wound dressing with human amnion after taking consent and group B (n-30) had conventional dressing with normal saline, betadene.

Statistical analysis: Chi square test and Fisher exact test

**Results:** Majority of patients (57.5%) had wound gaping after emergency cesarean section. Out of 30 patients in group A, epithelialization and healthy granulation tissue was observed in majority of the patients (17 patients) after 2 amnion dressings (4 days) whereas in group B, these changes were observed in majority of the patients (21 patients) after 8 days. Hence resuturing was done in majority of the patients after 4 days and 8 days in group A and B respectively (p value <0.001). Wound depth was markedly minimized in 20 out of 30 patients in group A making resuturing very easy and none in group B (p value <0.001).

Conclusion: Human amnion is a readily available, cheap and highly effective dressing material for gaped wounds.