

11th World Congress and Expo on
Cell & Stem Cell Research
 March 25-26, 2019 | Orlando, USA

ACCEPTED ABSTRACTS

JOURNAL OF CELL SCIENCE & THERAPY, VOLUME: 10 | DOI: 10.4172/2157-7013-C1-050

**Combination of cells
 spray from skin biopsy
 and platelets rich plasma
 regenerate skin faster**

Muhammed Rauf Ahmed

Shaheed Zulfiqar Ali Bhutto
 Medical University, Pakistan

Regrettably, the occurrences of burns are common, leading to scarring or death. Platelet-rich plasma (PRP) is enriched

in growth factors, can enhance wound repair. We analyzed the use of PRP in deep second degree burns in rats. Fifty Westar rats divided into five groups, ten rats were being used as a control, ten rats received PRP, ten rats received cells spray and ten rats received a combination of PRP and cells spray. After 20days, rats were sacrificed and skin biopsies were collected. Wounds treated with PRP combined with cells showed earlier wound repair,

reduction in CD31-, CD68-, CD163-, MPO- and in TGF- β -positive cells and an increase in MMP2-positive cells. The neo-epidermis was thinner in the control of both groups and granulation tissue was less reduced in the control of both groups. These results indicate that PRP and cells can speed up the healing process in second-degree burns.

roofidr@yahoo.com