ABSTRACT BOOK ABSTRACTS



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WOUND HEALING

THE EFFICACY OF EXOSOME PLATELET RICH PLASMA ON BURN INJURY HEALING: AN ANIMAL MODEL

Ance Imelda Betaubun⁽¹⁾ - Ambar Aliwardani⁽²⁾ - Anggana Rafika Paramitasari⁽³⁾ - Ardelia Dyah Ayu⁽³⁾ - Indah Julianto⁽³⁾ - Moerbono Mochtar⁽³⁾ - Eko Irawanto⁽³⁾

Dr.moewardi General Hospital/ Sebelas Maret University, Dermatovenereology Departement, Surakarta, Indonesia⁽¹⁾ - Dr. Moerwardi General Hospital/ Sebelas Maret University, Dermatovenereology, Surakarta, Indonesia⁽²⁾ - Dr.moewardi General Hospital/ Sebelas Maret University, Dermatovenereology, Surakarta, Indonesia⁽³⁾

Introduction: Wound healing in burn injury is influenced by early tissue damage, the size of the damage, blod supply. The organ which is involved, and the depth of the burn injury. Since there is no effective treatment for burn injury, exosome platelet rich plasma (PRP) can be an alternative option as it has greater growth factors.

Objective: To investigate the efficacy of exosome PRP in burn injury.

Methods: An experimental post test only control group design was conducted in 27 wistar strain mice. All subjects had burn injury of 95 degree celcius heat for 14 seconds with the lesion's site of 2x2 cm. They were then grouped into exosome PRP, PRP, and control groups. Termination was done after 3 weeks. The wound extension was measured with J image and VAS examination.

Results: The healing process was significantly faster in exosome PRP group (K1) compared PRP (K2), and control group (K3) with p value of 0.003, 0.004 and 0.005 respectively.

Conclusion: Exosome PRP is effective in healing burn injury.





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