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Our experience with autologous bone marrow (cell) therapy during modified radical mastectomy to prevent flap and local complications

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Modified Radical Mastectomy is the standard surgical procedure for locally advanced Breast Cancer and other early Breast Cancer in developing countries. Breast flap complications like seroma, flap necrosis, marginal flap necrosis, wound infection, shoulder stiffness, hypertrophic scarp, keloid formation and local recurrence are some of the complications seen commonly following modified radical mastectomy. Bone Marrow is harvested just before MRM from the patients' sternum under anesthesia and kept aside in heparinized solution. Flaps are raised above & below as per standard procedure and mastectomy completed with the tumor into along with auxiliary dissection. Hemostasis is achieved in breast bed under the flap and axilla. Autologous bone marrow is infiltrated under the flap and infiltrated to axillary walls and pectoral bed. Wound closed with a dynamic drain to axilla and upper flap. Post Operative observation of local pain, amount of drain collection, duration of the drain stay and shoulder stiffness symptoms are compared with a group of standard MRM without bone marrow application. It is observed that autologous bone marrow therapy is helpful in preventing local flap problems. Postoperative pain is found to be significantly less, local seroma formation is less making early drain removal, post operative wound infection is less & shoulder stiffness is less. Regarding local hypertrophic scarp, keloid & local recurrence we need further follow up in the study.

Biography

Sribatsa Kumar Mahapatra is a Professor and HOD for the Dept. of General Surgery Veer Surendra Sai Institute of Medical Science & Research, Burla, Sambalpur, Odisha, India. He completed his MBBS with Honors from MKCG Medical College, Berhampur University, Odisha in 1977. He completed his MS (General Surgery) in 1982 from Post-graduate Institute of Medical Education and Research, Chandigarh (India) & obtained Diplomate of National Board (General Surgery) from National Board of Examination in 1988 & obtained F.R.C.S. (Edin.) in 1995 from Royal College of Surgeons of Edinburg (UK). He joined as a Medical Teacher in 1984 and working in different capacities and became Professor of Surgery in 2008. He became Head of the Dept. of Surgery in 2013. He has presented his experience in Autologous Stem cell Therapy in refractory leg ulcers in 5th World Congress of Cell & Stem cell therapy at Chicago with appreciation of the delegates & organizers. He is actively involved in teaching, under graduate & Post-graduate students in General Surgery and treating the Surgical Patients in a busy 1000 bedded institute hospital.

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