Management of burn scar contractures

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SUMMARY======The skin is an anatomically and physiologically specializedboundary lamina which is of major importance in the life of theindividual. It is composed of two layers of distinctive structure, properties and embryological origin the dermis, and the epidermiswhich cover it. Within the skin, the blood supply anddrainage along well determined pathways. The appendages of skinare nails, hairs, sebaceous glands and sweat glands. When skin is exsposed to burn the process of healing is conducive to the formation of hypertrophic and contracted scars, asit is characterized by a marked increase in vascularity, fibroblasts, myofibroblasts, collagen deposition, interstitial material, and edema. Scar contractures and hypertrophic scar formation following thermal injury can be markedly lessened by prop~r positioning of the patient, utilisation of splints to maintain good position ofall joints during acute stage and long term use of splints and pressure dressing following healing. Early surgical excision and skin grafting of fullthickness burns minimize the development of contractures. When scar contracture is well established and matured, surgical correction is indicated. The generally accepted methods of con-93tracture release are Z-plasty and incisional release with graft. Also local, distant, island and myocutaneous flaps have beenused. When Skin flaps are raised including the deep fascia, this will increase the reliability and length to breadth ratios. With the advent of microvascular free-tissue transfer, burnsurgeons have begun to use this new technique to treatment ofpostburn contractures.