CONCLUSIONS
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The comparative effects of amniotic membrane application and collagen sheet application were studied and compared in 41 cases of superficial burn. At the same time superiority of either of them was assessed.

This study was conducted in the patients of superficial burns of less than 50% of body area involvement who came to M.L.B. Medical College Jhamai. The conclusion drawn are as follows:

1. Females are more sufferer in the age group of 15-25 years, while males suffers in the age groups of 0-10 years.

2. Amniotic membrane and collagen sheet provide good coverage to raw surface.

3. Both of them were easy to apply.

4. Both the bio-dressing effectively prevent the infection from out side.

5. Both the bio-dressing convert the open raw surface - burn area in to a close wound. Thus help the host defence mechanism to control infection, So both of them prevent the conversion of superficial burn to deeper degree of burn.

6. Erosion and seakage over the surface does not occur in the both cases. If it occurred then it is due to the
already present microorganisms over surface prior to
application of amniotic membranes and collagen sheet.

7. Loss of fluid and proteins from the surface is decreased
as the serum clots between the bio-dressing and raw
surface forms an effective barrier for fluid and protein loss.

8. Both the bio-dressing were applied only once. So local
management of the wound becomes very easy and economical
(free of cost in the case of amniotic membrane and Rs. 5/-
for 5" x 5" area in the case of collagen sheet.

9. The discomfort and suffering of the patient are considerably
reduced in both the amniotic membrane and collagen sheet
applied cases.

10. The part covered with both the bio-dressing are stabilized
as soon as they adhere to surface & active passive physio-
therapy is easily accepted by patients.

11. The rate of healing of wounds, covered with two bio-
dressings, was faster. This is because of prevention of
extraneous infection, non disturbance and preservation of
potential epithelizing cells.

12. The wounds where partial healing was observed, were
deeper degree of burn.

13. No contracture was observed in any case covered with
collagen sheet and/or amniotic membranes.

14. The scars of completely healed areas were pink with
smooth surface and flat margin in both the cases.
On comparing the effects of two bio-
dressings to assess the superiority of either of them,
following conclusions were drawn -

1. Both the dressings, without any significant difference,
   are good covering material, very easy to be applied,
effective in controlling extraneous infections and
preventing fluid and protein loss.

2. Availability is no problem in the case of amniotic
   membrane while collagen sheet can only be available from
   Central Leather Research Institute Adyar, Madras.

3. The preservation of amniotic membrane is easy and cheap
   but for shorter duration while that of collagen sheet is
   more difficult, costlier but for longer duration.

4. Collagen sheet is supplied after undergoing the sterile
   zation tests while sterile status of amniotic membrane is
   not guaranteed.

5. Amniotic membrane is a natural bio-dressing without any
   cost. The collagen sheets are prepared after difficult
   processing and cost Rs. 5/- for each sheet.

6. A single amniotic membrane can cover 8"x14" raw area
   while single collagen sheet can cover only 5½"x3½" area.
   Thus for 15% burn of adult a single amniotic membrane is
   sufficient while 6-7 collagen sheets are required in that
   case.

7. For larger wound area open wound is closed completely
and safely if amniotic membrane is applied while collagen sheet applications have risk of developing gap between two sheets exposing the area for infection when it becomes dry.

8. No dressing is needed to retain amniotic membrane in place initially while one or two initial dressings are needed to retain the collagen sheets in its place, till it becomes adhered.

9. Difference in infection rate is not significant.

10. The collagen sheet peeled off earlier than amniotic membrane and thus take slightly lesser time in healing.

11. Pain relieved at once when amniotic membrane is applied while pain is not relieved or increased at times when collagen sheet is applied. So amniotic membrane decidedly better in this respect.