CONCLUSIONS
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The comparative effects of Povidone-Iodine with Neosporin powder application and daily simple cleaning with 0.9% saline were studied and compared in 42 cases of superficial and deep burns. At the same time effects of both were assessed. This study was conducted in the Emergency and surgical wards of M.L.E. Medical College Hospital, Jhansi, from 2.2.1990 to 1.2.1991.

The patients were divided into two groups matched by age and percentage of burn. One group comprising of 18 patients was treated by daily simple cleaning with saline and the other group of 24 patients was treated with combination of Povidone iodine plus Neosporin powder.

The study was conducted in the patients of superficial, deep and mixed burns upto 60% of body area involvement.

The conclusion drawn are as follows:

1. Patients are more sufferer in the age group of 16-30 years. 69% patients belonged to this age group. Out of this, the percentage of female patients in this age group was 54.7, while males were 14.3%.
2. Most burn accidents took place in indoor activity and the ratio of indoor and outdoor were 83.3% and 16.7%.

3. Maximum burn injuries occurred in rural areas and the ratio of rural Vs urban were 85.7% and 14.3%.

4. Most of the burns are thermal in nature and in majority of cases the cause of burn was fire during cooking.

5. Patients with major burn reach directly to hospital much earlier than those with minor burns and most of the cases landed up in hospital in about two days of the thermal injury.

6. Infection was present in 39 out of 42 cases on surface culture. Staphylococci were the commonest offending organisms followed by Pseudomonas.

7. The scars of completely healed areas were brownish flat margin in cases treated with daily simple cleaning with saline and more fibrous in Povidone-Iodine with Neosporin powder application.

On comparing the effects of two methods to assess the superiority of each, following conclusions were drawn -

1. Both the methods, simple daily cleaning with saline and Povidone-Iodine plus Neosporin dressing are easy in application.
2. 0.9% sodium chloride solution (Normal saline) should be sterile.

3. The response of superficial burn to simple daily cleaning with saline is promising and PVP + Neosporin may not have additional benefit in superficial burns. So this may save the patients from the unnecessary expense of buying the relatively expensive drugs. This is very important factor as far as the poor population is concerned.

4. In cases of deep and mixed burns, the rate of healing was definitely superior in the drug treated cases. The average healing time was shorter and the infection rate was lower as compared to the saline group.