

**Non-elliptical scar revision techniques – A case series****Dr Harsha Roy, Dr Saurabh Singh**

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**Abstract ID number – EP 0030****Introduction**

- Post-traumatic scar pose a considerable aesthetic and psychosocial challenge
- Staged surgical excision are employed for removal.
- Elliptical incisions have length thrice the width of the lesion.<sup>[1]</sup>
- Modified incision techniques minimize removal of healthy tissue while aligning closure along RSTL.

**Aim and design**

**Objective:** To assess efficacy of Non-elliptical incision in reduction of final scar length after excision of Post-traumatic scar.

**Design:** Case series

**Setting:** A tertiary referral centre in North India.

**Patient details**

19 y/o male with an oval scar 1.4 X 1.3 cm on right cheek

**Methodology**

- Scar revision was done using **checkerboard incision**.
- **In checkerboard incision, diametrically opposite quadrants were excised and defect closed with S-shaped closure along RSTL**

**Patient details**

23 y/o male with a linear scar 1.9 X 1.2 cms over right malar region

**Methodology**

- Scar revision was done using **Geometric broken lines**.

**Patient details**

21 y/o male with an oval scar 2.1 x 1.1 cms over left cheek

**Methodology**

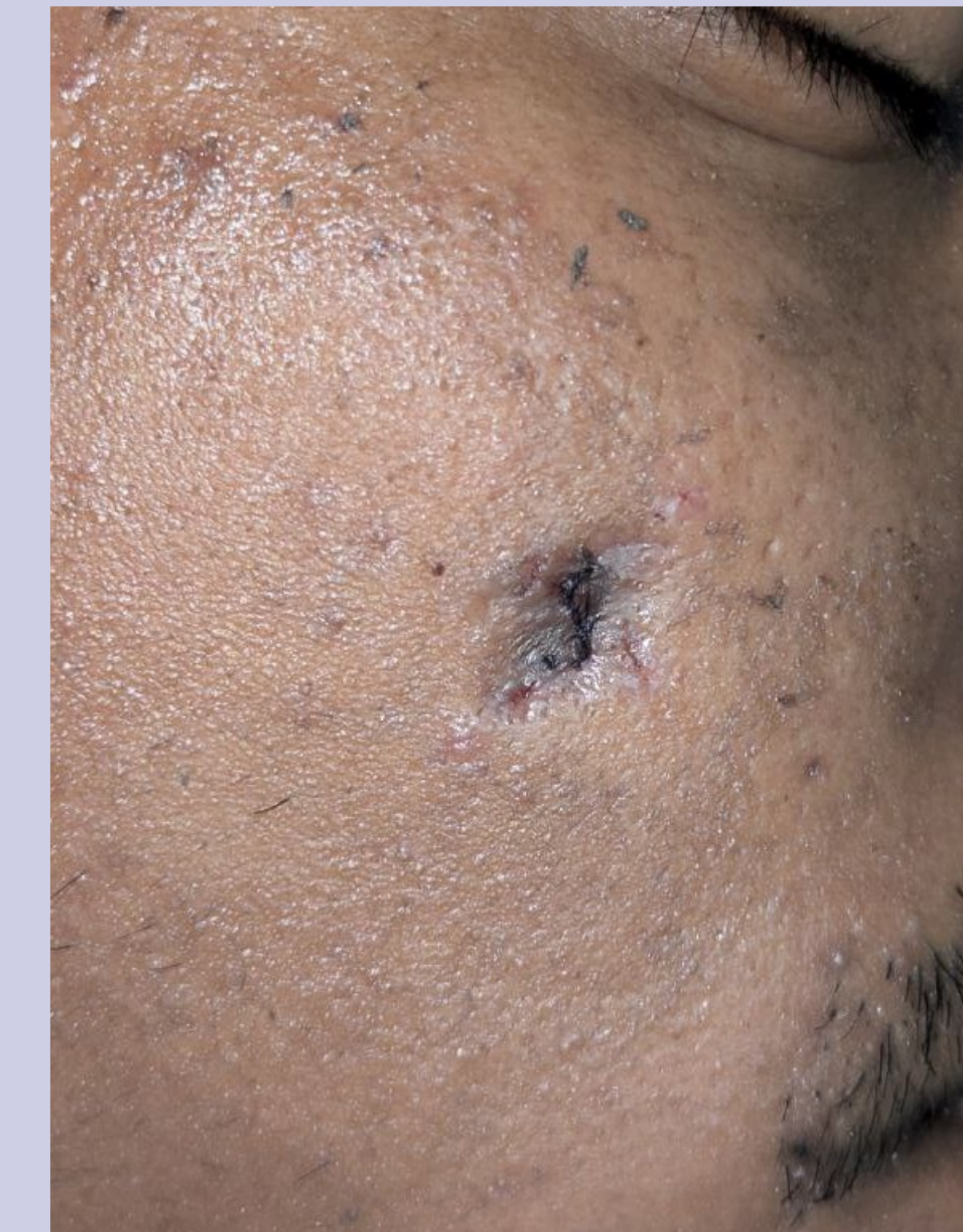
- Scar revision was done using **checkerboard incision**

**Results**

Baseline  
Size: 1.4 X 1.3 cms



Defect after  
Checkerboard incision



Closure after surgery:  
1.3 × 0.8 cm

- Patient 1**
- Baseline- 1.4 X 1.3 cms
  - **Predicted length of elliptical incision- 3.9 cms**
  - **% reduction in scar length= 66.6%**



Baseline  
Size: 1.9 × 1.2 cm



Closure after surgery:  
1.9 × 0.5 cm



Baseline  
Size: 2.1 x 1.1 cms



Closure after surgery:  
1.75 × 0.9 cm

- Patient 2**
- Baseline- : 1.9 × 1.2 cm
  - **Predicted length of elliptical incision- 3.6 cms**
  - **% reduction in scar length= 47%**
- Patient 3**
- Baseline- : 2.1 x 1.1 cm
  - **Predicted length of elliptical incision- 3.3 cms**
  - **% reduction in scar length= 47%**

**Conclusion**

- Final length of scar is much smaller as compared to elliptical incision, minimizing loss of normal tissue
- They help align closure along RSTL hereby improving cosmetic outcome.

**References**

1. Chatterjee M, Vasudevan B, Venkataram M, editors. ACSI textbook of cutaneous & aesthetic surgery. 3rd ed.; 2024.