

# Non-elliptical scar revision techniques – A case series

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## 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**

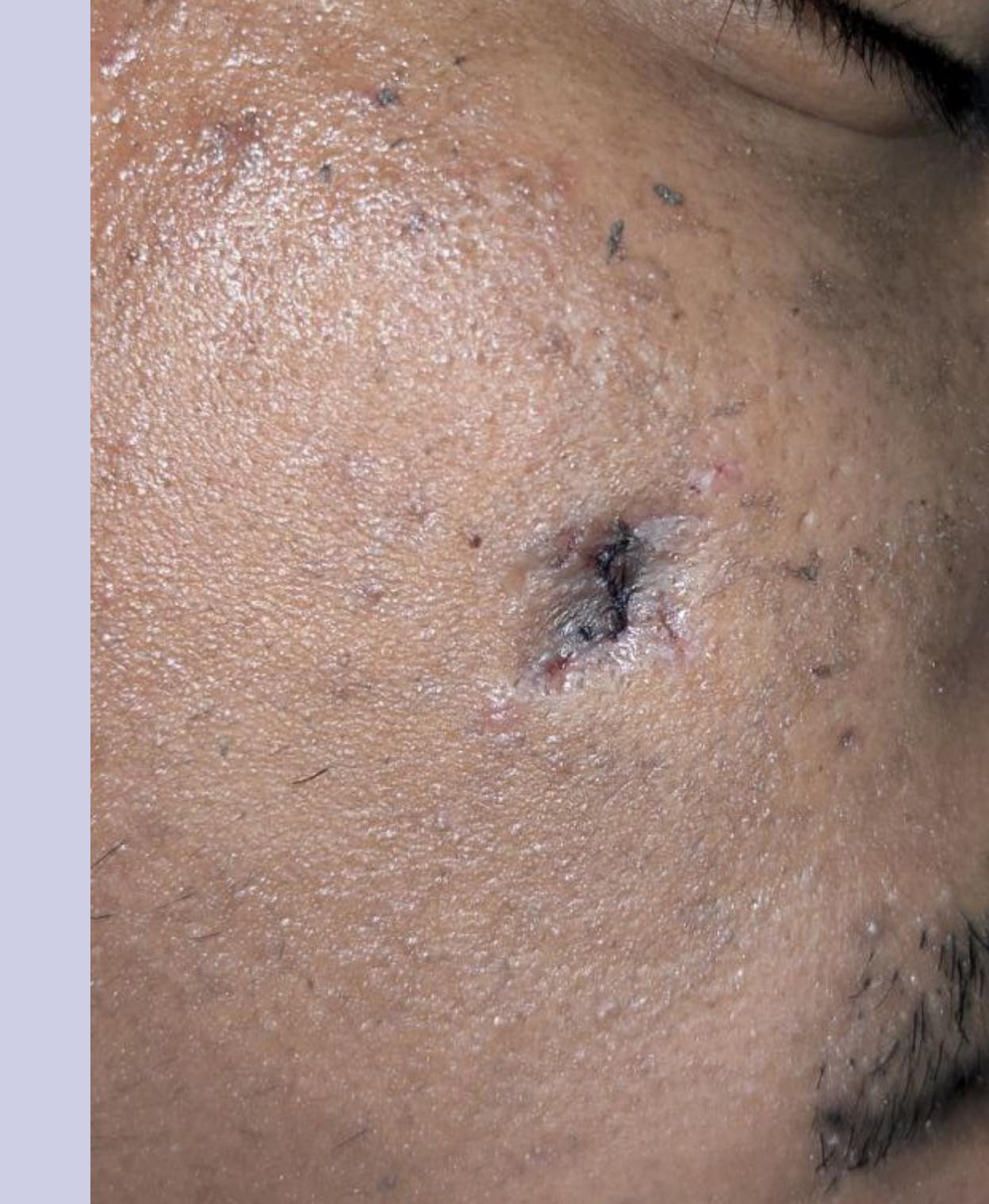
## Results



Baseline  
Size: 1.4 X 1.3 cms



Defect after  
Checkerboard incision



Closure after surgery:  
1.3 x 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%**

### Patient 2

- Baseline- : 1.9 x 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%**



Baseline  
Size: 1.9 x 1.2 cm



Closure after surgery:  
1.9 x 0.5 cm



Baseline  
Size: 2.1 x 1.1 cms



Closure after surgery:  
1.75 x 0.9 cm

## 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

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