

# Safety and efficacy of dartos preserving circumcision in patients with diabetes mellitus

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# Aims and Objectives

To present our novel technique of dartos preserving circumcision and compare its safety and efficacy with the traditional sleeve resection technique for circumcision in patients with phimosis and diabetes mellitus.

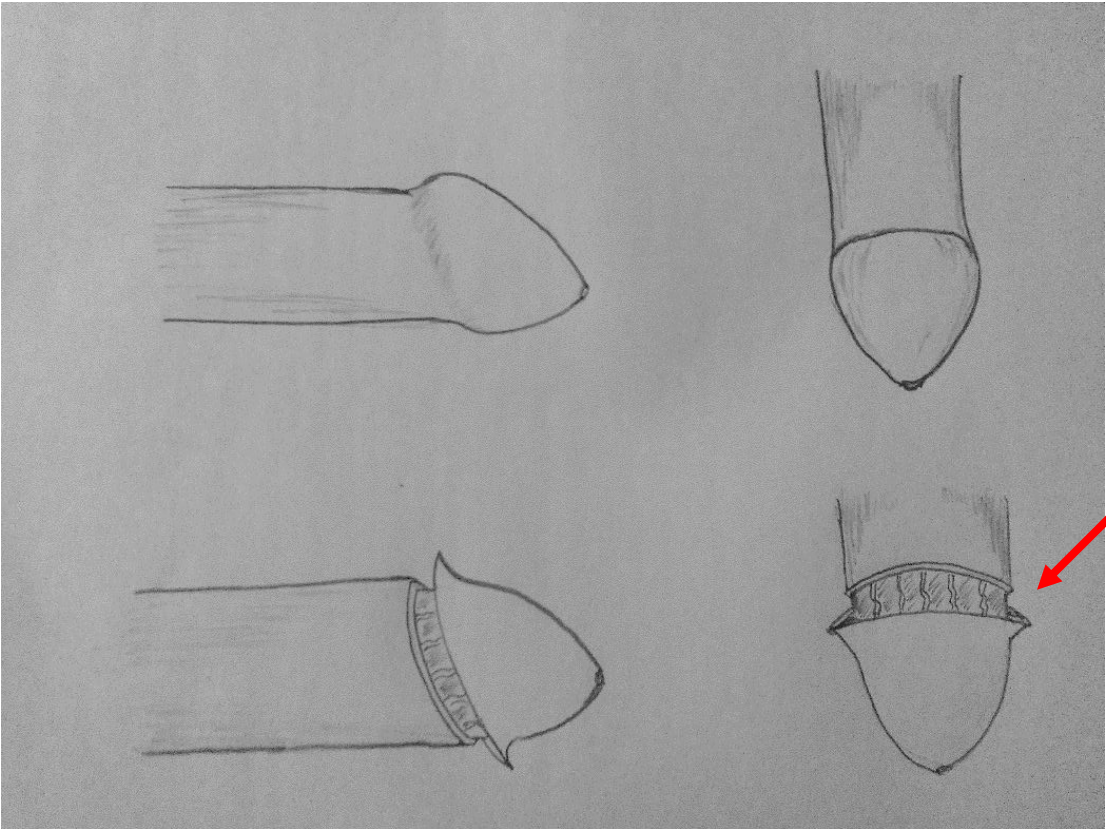
# Patients and Methods

We reviewed our technique of dartos preserving circumcision in 12 diabetic patients and retrospectively compared the outcomes with 12 diabetic patients who had undergone sleeve resection circumcision at our center from January 2015 to April 2016.

# Technique

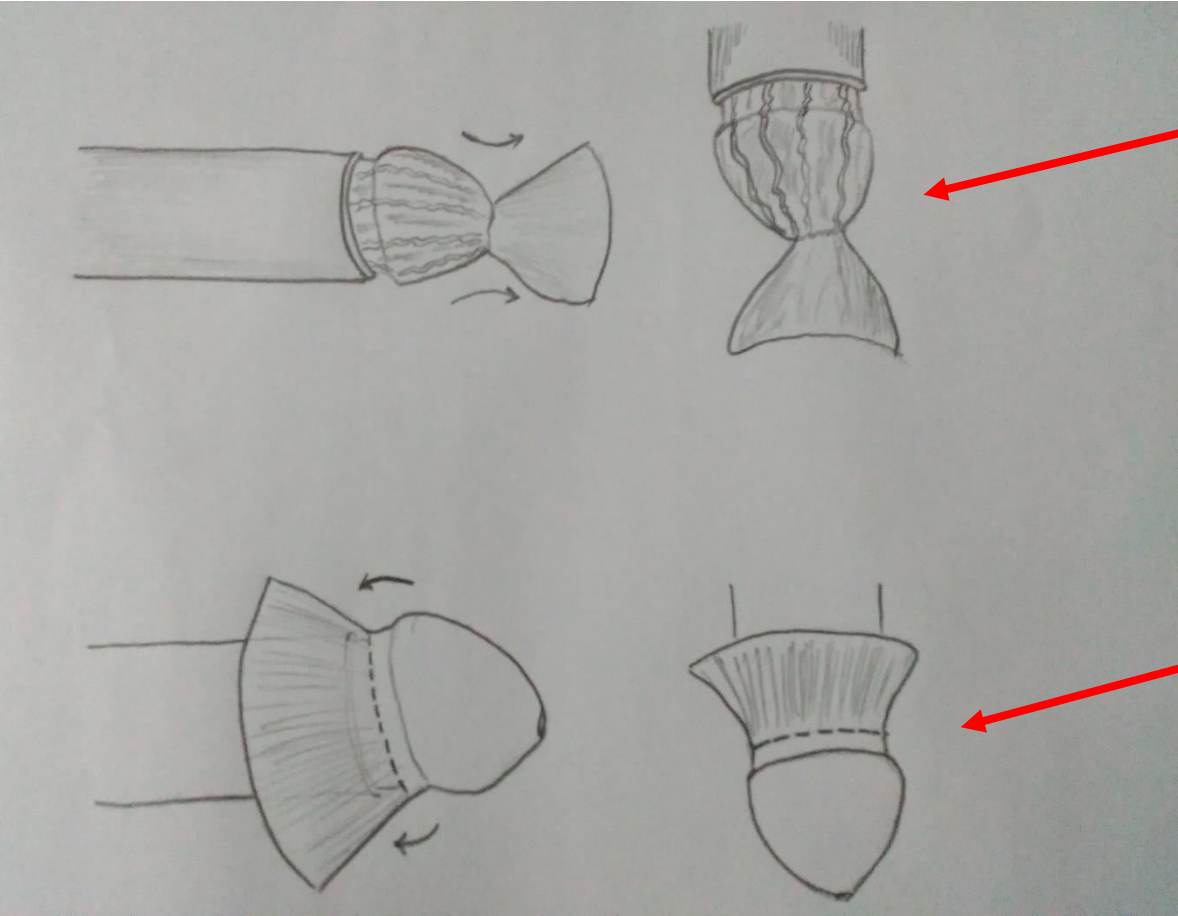
- In dartos preserving circumcision, a circumferential incision was made in outer skin at corona level and the skin was dissected free from underlying dartos using sharp and blunt dissection.
- The prepucial orifice was bluntly dilated and prepuce retracted to make the inner incision.
- The prepucial skin was dissected off the dartos circumferentially preserving dartos and frenular artery.
- Reapproximation was done using interrupted 4/0 Vicryl Rapide™.
- Sleeve circumcision was done in the standard method and reapproximation was done using interrupted 4/0 Vicryl Rapide™.

# Technique



Circumferential  
incision up to skin  
depth avoiding Dartos  
layer

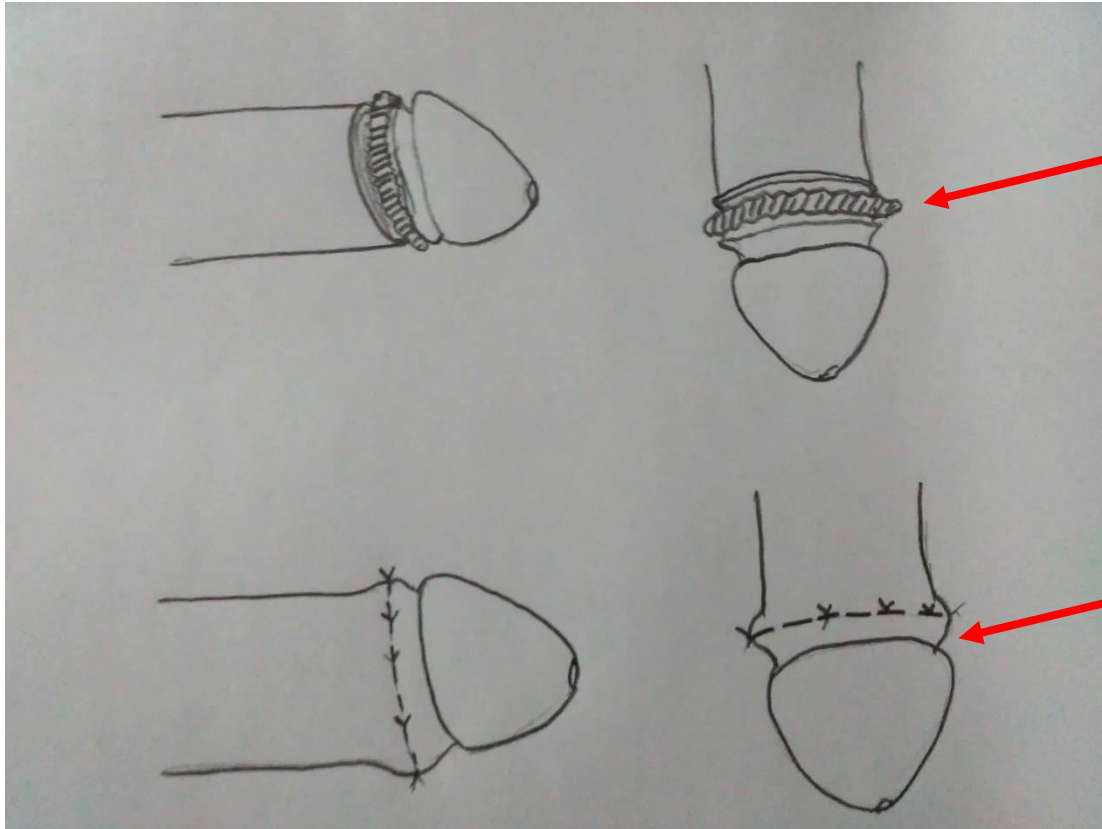
# Technique



Skin degloved from Dartos layer

Inner circumferential incision made after retracting the prepuce

# Technique



Prepuce skin removed  
preserving Dartos layer

Final outcome

# Outcomes

The outcomes studied were

- Operation time
- Estimated blood loss
- Postoperative infection
- Postoperative pain score
- Wound healing time
- Time to return to work



# Results

The dartos preserving circumcision group had less bleeding, lower postoperative pain score, faster wound healing and rapid return to work, when compared to the sleeve circumcision group.

The operation time was similar in both groups.

# Results

	Sleeve Circumcision	Dartos Preserving Circumcision
Operation time	23 ± 4 min	22 ± 3 min
Estimated blood loss	13 ± 5 ml	6.5 ± 2.5 ml
Postop Pain Score	5.3 ± 1.1	4.2 ± 1
Wound Healing	18.5 ± 5 days	9 ± 2.9 days
Return to work	11.6 ± 5.4 days	7.4 ± 2.4 days

# Conclusion

Dartos preserving circumcision is a more safe and efficacious technique than sleeve resection in diabetic patients with phimosis.