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OMICS Group is an amalgamation of Open Access Publications and worldwide international science conferences and events. Established in the year 2007 with the sole aim of making the information on Sciences and technology 'Open Access', OMICS Group publishes 500 online open access scholarly journals in all aspects of Science, Engineering, Management and Technology journals. OMICS Group has been instrumental in taking the knowledge on Science & technology to the doorsteps of ordinary men and women. Research Scholars, Students, Libraries, Educational Institutions, Research centers and the industry are main stakeholders that benefitted greatly from this knowledge dissemination. OMICS Group also organizes 500 International conferences annually across the globe, where knowledge transfer takes place through debates, round table discussions, poster presentations, workshops, symposia and exhibitions.

# OMICS International Conferences

OMICS International is a pioneer and leading science event organizer, which publishes around 500 open access journals and conducts over 500 Medical, Clinical, Engineering, Life Sciences, Pharma scientific conferences all over the globe annually with the support of more than 1000 scientific associations and 30,000 editorial board members and 3.5 million followers to its credit.

OMICS Group has organized 500 conferences, workshops and national symposiums across the major cities including San Francisco, Las Vegas, San Antonio, Omaha, Orlando, Raleigh, Santa Clara, Chicago, Philadelphia, Baltimore, United Kingdom, Valencia, Dubai, Beijing, Hyderabad, Bengaluru and Mumbai.



# Follicular Unit Transplantation Into Scar Tissue as an Alternative to Surgical Scar Revision in Hair Bearing Scalp Extended Follow-Up

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# Problem: Scars

- Show because of lack of hair
- Have pigmentation mismatch
- Scars may be hypertrophic or keloids
- If scars cross aesthetic unit boundaries facial appearance can be distorted

# Etiology of Scars

- Hair transplants
- Neoplasm removal
- Failed scar revision
- Cosmetic surgery
- Other trauma

# Reconstructive Options

- Surgical scar revision
- SMP
- Hair transplantation

# Scar Revision

## Advantages

- Rapid solution
- Can repair scar and obtain hair for transplant
- Well established surgical procedure

## Disadvantages

- Patient fear of additional surgery
- No guarantee of better results
- Hairstyle precludes new scar
- Alters anatomic landmarks

# Scar Revision





# SMP

## Advantages

- Well marketed to public

## Disadvantages

- Only temporary solution
- Ink bleeds
- Ink-skin color mismatch



# Hair Transplantation

## Advantages:

- Natural look
- Permanent solution

## Disadvantages:

- Limited quantity of hair
- May need hair for future hair transplants
- Results can be variable when placed into scar tissue

# Harvest Options: FUE vs. Strip

## FUE

- History of poor scars
- Patient's desire for short hair
- Fear of strip procedure

## Strip

- Strip already being removed for hair transplant
- Consistent results

# Our Patient Series

Patient	Age	Sex	Race	Scar Etiology	Harvest Technique	#grafts	Scar type
1	53	F	W	Skin cancer	FUE	500	Atrophic
2	31	M	H	Knife	FUE	200	Slightly firm
3	49	M	B	HT	FUE	350	Firm
4	25	M	A	HT/scalp red	Strip	1800	Very firm
5	52	F	H	Burn	FUE	300	Atrophic
6	58	F	W	Burn	FUE	200	Normal
7	27	M	W	Craniofacial	Strip	450	Wide/slightly firm
8	44	M	B	HT	FUE	400	Slightly firm
9	38	M	W	cyst/zplasty	FUE	275	Hypertrophic
10	58	F	W	Endobrow	FUE	225	Atrophic
11	16	M	ME	cyst/zplasty	FUE	250	Slight hypertrophy
12	18	M	ME	cyst/zplasty	FUE	250	Slight hypertrophy
13	62	M	W	Traumatic scalp avulsion	Strip	1500	Atrophic
14	33	M	H	HT and FUE	FUE	500	Slightly firm

# Results

- All 14 patients had good to excellent coverage
- No difference between strip and FUE in results
- Hair growth took up to fifteen months
- Thick fibrous scars showed slower growth

# Discussion

- Choice for strip or FUE was based on hairstyle or to avoid linear scar
- More subcutaneous tissue was left around roots
  - FUE grafts were not trimmed
- Slightly bigger recipient slits were made than traditional hair transplant procedure

# Patient 2



# Patient 2





# Patient 3



# Patient 3 cont.



# Patient 4



# Patient 4



# Patient 5



# Patient 5 cont.



# Patient 7



# Patient 7 Cont.





# Patient 10



# Patient 10 Cont.



# Patient 10 Cont.



# Patient 11



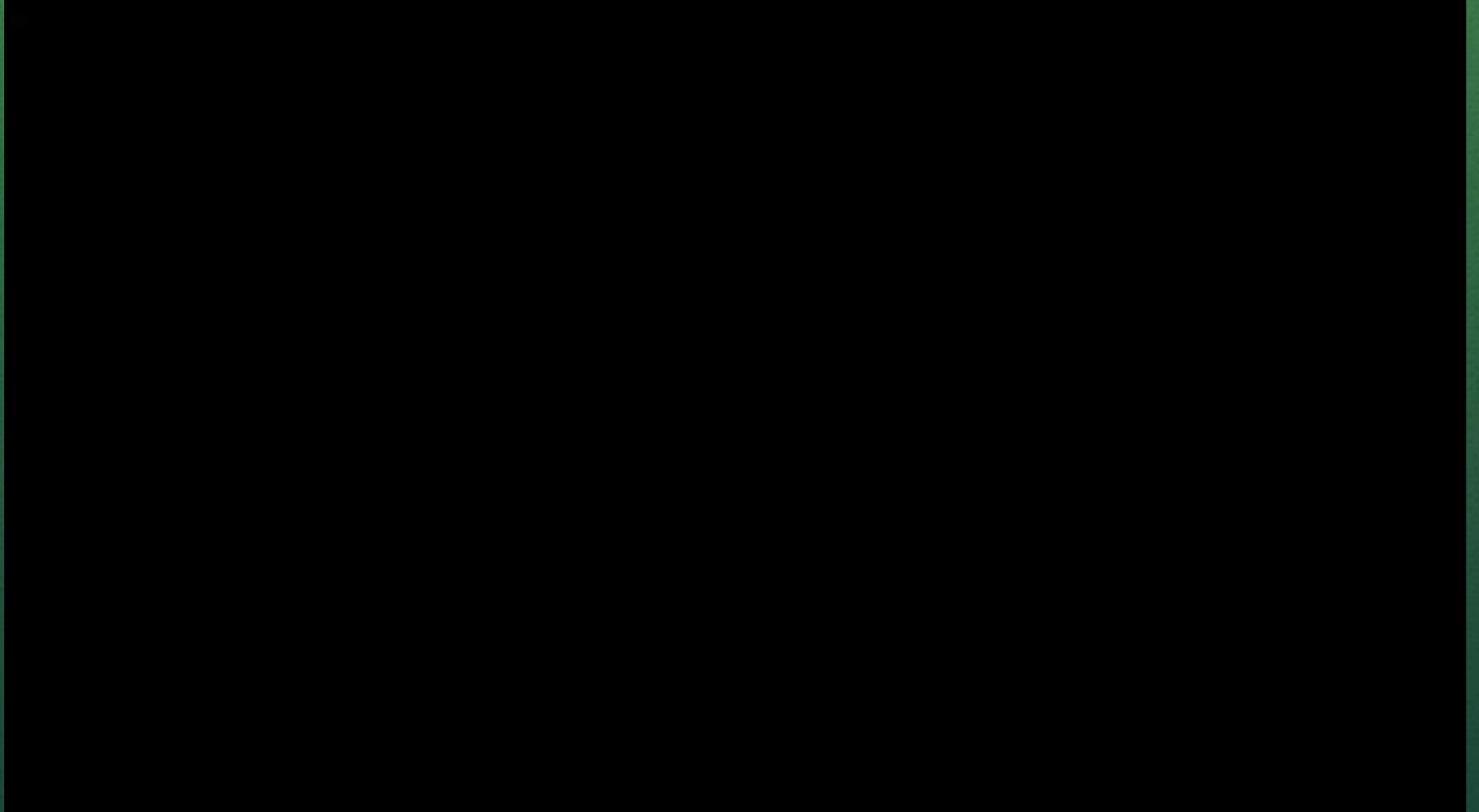
# Patient 11 Cont.



# Patient 14



# Patient 14



# Conclusion

- HT is an excellent option to surgical scar repair in certain cases
- FUE and strip procedures offered equal results in this series
- Careful graft dissection and placement are key for consistent results



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