



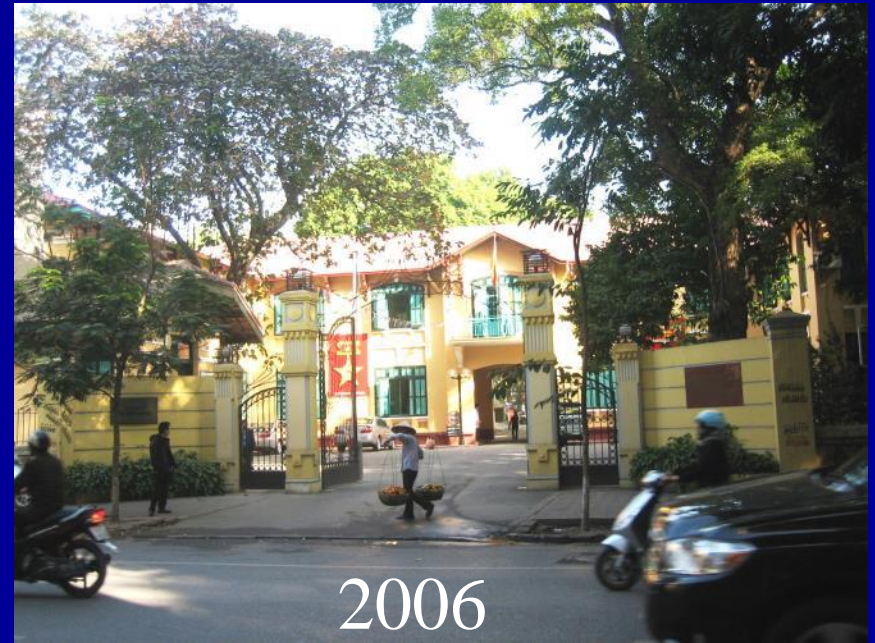
*Phẫu thuật tạo hình*

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# Application of Microsurgery in Head & Neck Cancer and Craniofacial Surgery at Viet – Duc University Hospital

*Nguyễn Hồng Hà, Vũ Trung Trực,  
Bùi Mai Anh, Đào Văn Giang, Đỗ Ngọc Linh*  
Khoa Phẫu thuật Tạo hình – Hàm mặt  
Viện chấn thương chỉnh hình, Bệnh viện Việt Đức



- **VIET DUC University Hospital** Founded in 1906
- All surgical specialties. > 1000 patients. 1<sup>st</sup> reference emergency
- Before 2004: No plastic surgeon, No microsurgery replantation, No Maxillofacial surgeon



# Phẫu thuật tạo hình

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- Oct 2004 → Plastic Maxillofacial Unit of Trauma Dept
- 2006 Dept Maxillofacial Plastic Aesthetic Surgery → start programme microsurgery on:
  - Emergency replantation avulsion part of body
  - Reconstruction after cancer removal
  - Trauma, Burn
  - **Multidisciplinary: Neurosurgery,**
  - **ENT, Ophthalmology,**
  - **Maxillofacial Plastic Surgery**



# Emergency replantation avulsion part of body

- Extremities Hand, finger, leg, foot
- Scalp total avulsion
- Nose
- Ear
- Penis amputation

# Hand and finger replantation

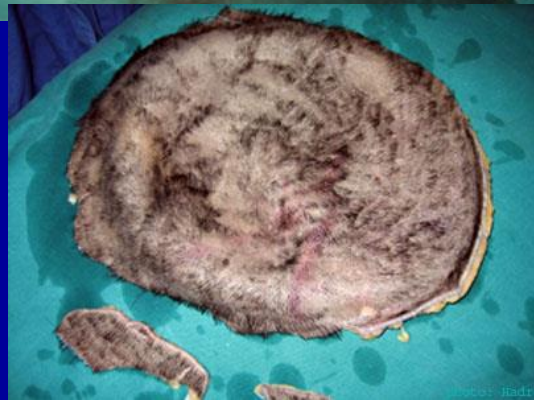
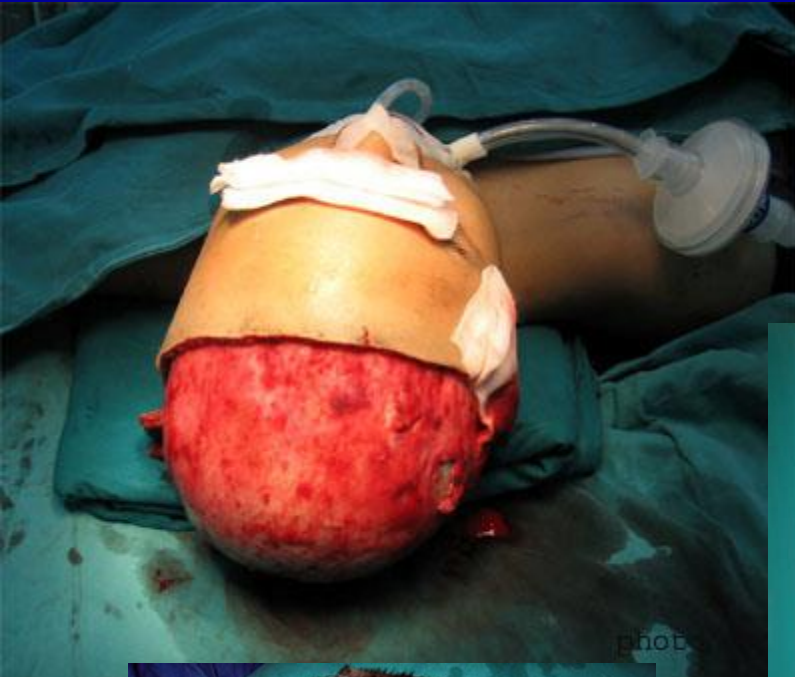


# Scalp avulsions: working accident

2-3 cases per year



1<sup>st</sup> scalp replantation in Vietnam  
**Recently: 1<sup>st</sup> world  
polytrauma???**



Les membres du Comité Scientifique ont noté les différentes communications lors du 52<sup>ème</sup> Congrès National de la SOF.CPRE en novembre 2007.

C'est votre communication intitulée :

*Replantation microchirurgicale de scalp total et complet : à propos des 6 premiers cas au Vietnam.*

*Hong Ha NGUYEN, Tien Quyet NGUYEN, Bac Hung NGUYEN (Hanoi)*

qui obtient le 1<sup>er</sup> prix.

→ 1<sup>st</sup> prize in  
France meeting

2<sup>nd</sup> biggest serie  
in the world 16/80



ELSEVIER



## The microsurgical replantation of seven complete scalp avulsions: Is one artery sufficient?★

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Received 23 December 2011; accepted 4 June 2012

### KEYWORDS

Scalp;  
Replantation;  
Microsurgery

**Summary Background:** Total scalp avulsion is a rare and devastating event. Microsurgical replantation is the sole method to achieve an ideal cosmetic outcome. In the literature, most studies have reviewed limited sample sizes. Most authors report better outcomes when a greater number of microvascular anastomoses are used. This strategy remains controversial, as some authors have suggested that one artery may be sufficient.

**Methods:** From 2005 to 2008, seven patients who sustained scalp avulsion underwent microsurgical replantation. All of the vascular anastomoses were made with a branch of the superficial temporal artery. We did not use vein grafts. The ischaemia time was 4–16 h.

**Results:** In six cases, a single artery and one to two veins were anastomosed; in another case, two arteries and three veins were anastomosed. Six of the seven scalp replantations were successful and achieved normal hair regrowth. In five of the six successful cases, we performed a single-artery anastomosis.

**Conclusion:** Scalp avulsion is rare around the world but occurs relatively frequently in our country due to the lack of safe and secure working conditions in agriculture and industry. In cases where multiple arterial anastomoses are not possible, the present findings suggest that one branch of the superficial temporal artery may be sufficient to reperfuse the replanted scalp and achieve excellent aesthetic results.

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# S O F . C P R E

SOCIETE FRANCAISE DE CHIRURGIE PLASTIQUE  
RECONSTRUCTRICE ET ESTHETIQUE  
26 Rue de Belfort 92400 COURBEVOIE

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Docteur Ha Hong NGUYEN  
Service de CP et Maxillo-faciale  
Centre hospitalo-universitaire de Viet-Duc  
40 Trang Thi  
Hanoi  
Vietnam



Since 2004

Microsurgery:

- 1 team - 2 team
- Anastomose only temporal art
- No occipital art
- No vein graft

Courbevoi



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Professeur Marc REVOL et Docteur Ha NGUYEN  
Secrétaire Général

**Báo cáo đạt giải nhất Hội nghị Phẫu thuật Tạo hình Pháp năm 2007**



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# 1<sup>st</sup> Replantation of Lip and nose in Vietnam



Male 29y,  
road accident



18 month, good **aesthetic, function**



## Emergency microsurgical replantation

1<sup>st</sup> team: amputated ear:

2 small arteries 0,5 mm

2 very small vein

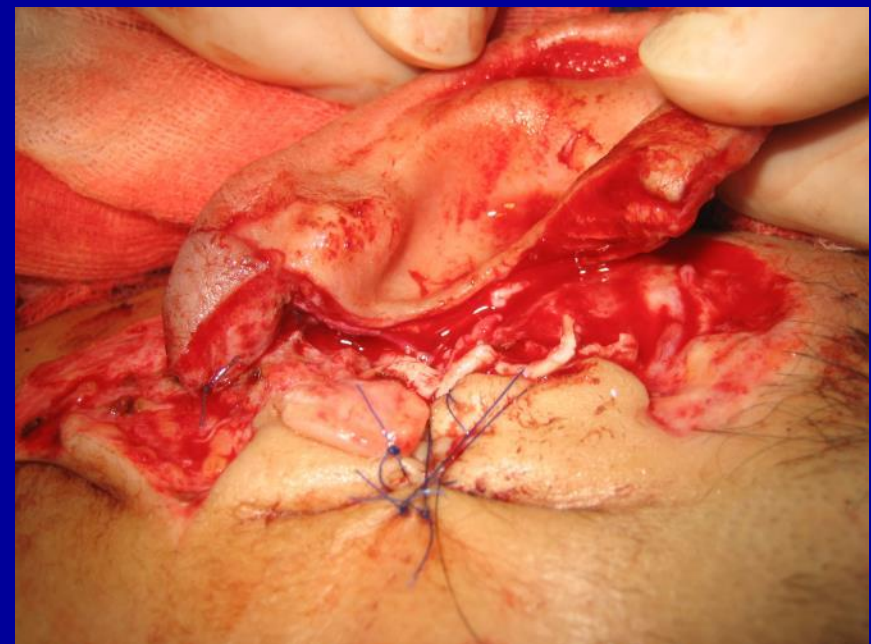
2<sup>nd</sup> team: prepare vascular on patient

1 artery: auricular posterior

1<sup>st</sup> anastomosis: Fail

2<sup>nd</sup> anastomosis → vein lobular →

Change position of vein

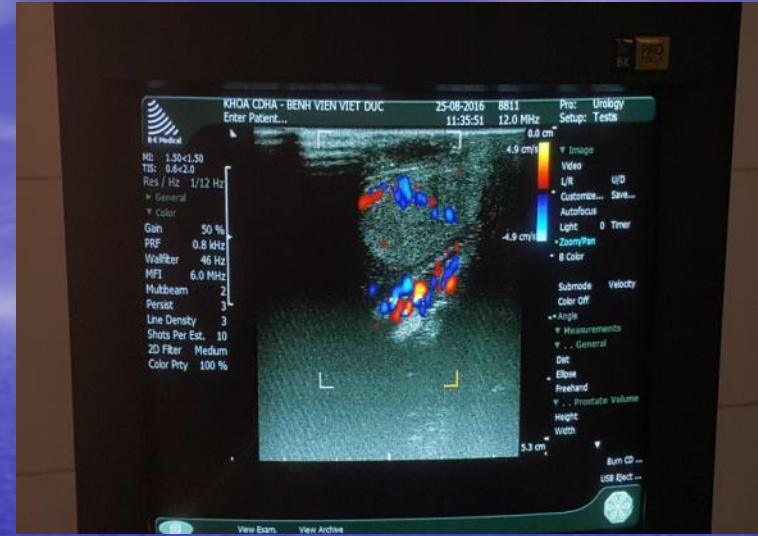




Back home day 9.  
Ear survive 100%  
Very good result cosmetic  
Happy patient and family



Tạo hình Việt Đức



First Testis and Penis replantation in VietNam

[www.phauthuatthammy.vn](http://www.phauthuatthammy.vn)



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# Reconstruction sequelles of trauma, Burn

- Facial nerves palsy
- Scalp electric burn
- Phalloplasty
- Extremities ...

Phalloplasty post trauma, burn, cancer or  
in preparation for sex reassignment surgery ...







*Phẫu thuật tạo hình*

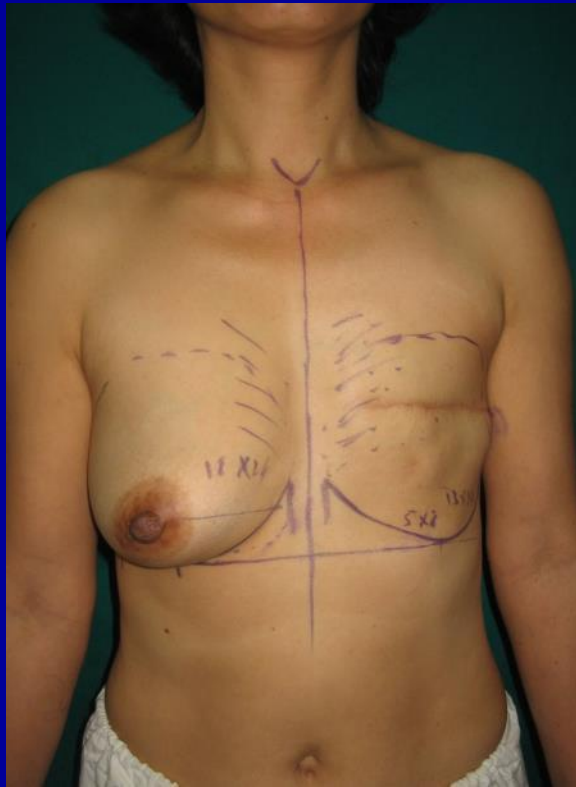
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# Reconstruction in Oncology

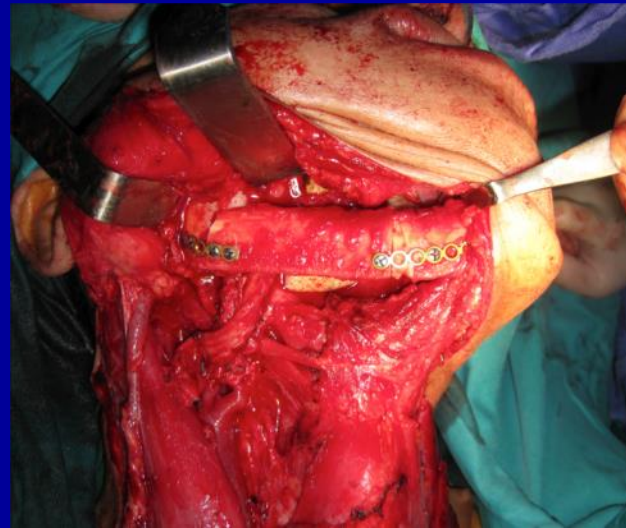
- Breast reconstruction post mastectomy
- Phalloplasty
- Head and neck cancer
- Multidisciplinary

# Tạo hình ngực sau ung thư

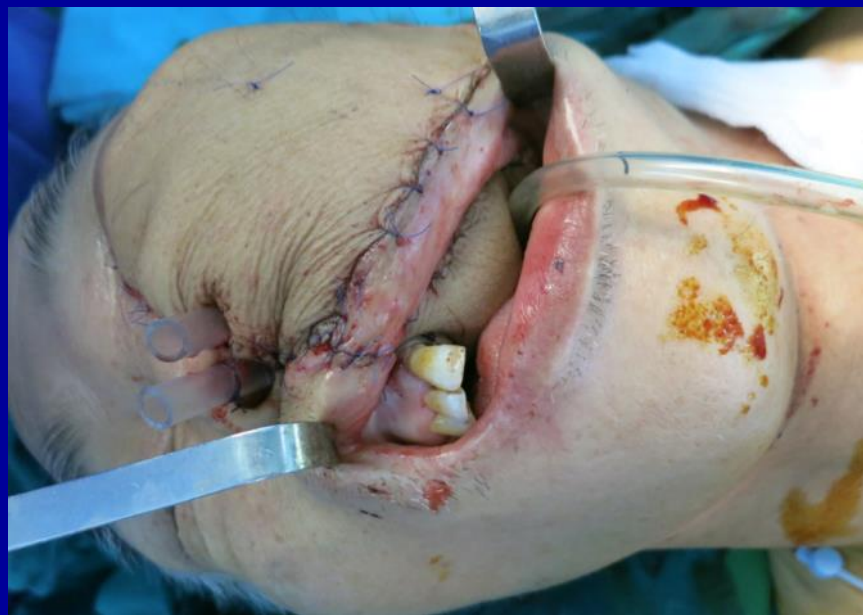


BN nữ 51 tuổi, chuyên vạt tái tạo ngực sau K, bn đã kết hôn lần 2

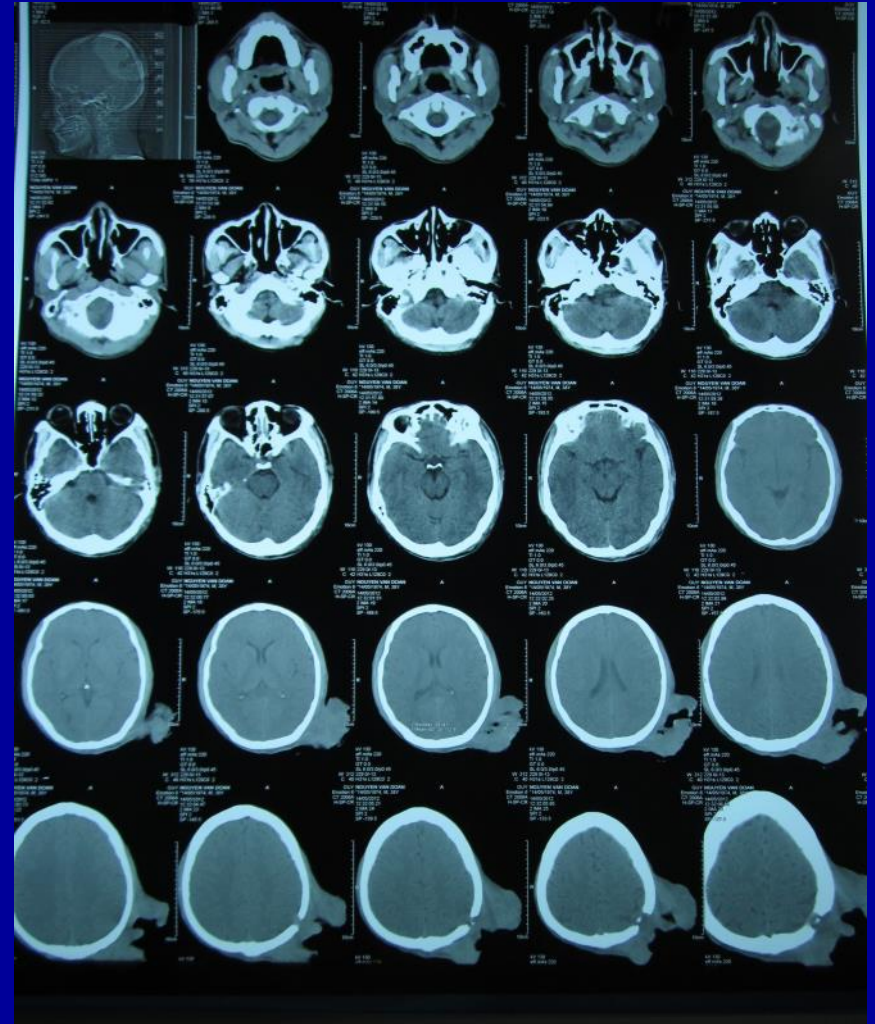
# Tạo hình sau cắt bỏ khối u ác tính đầu mặt cổ

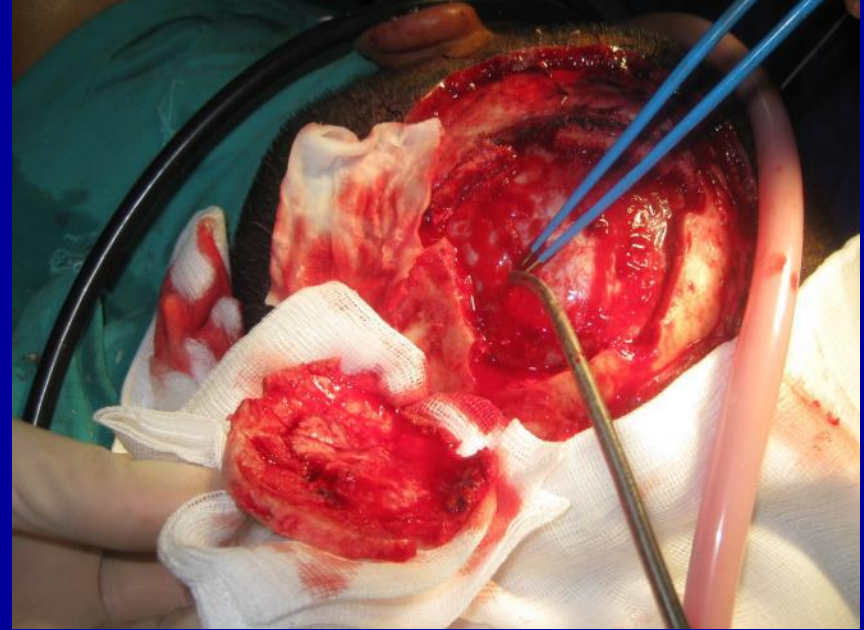
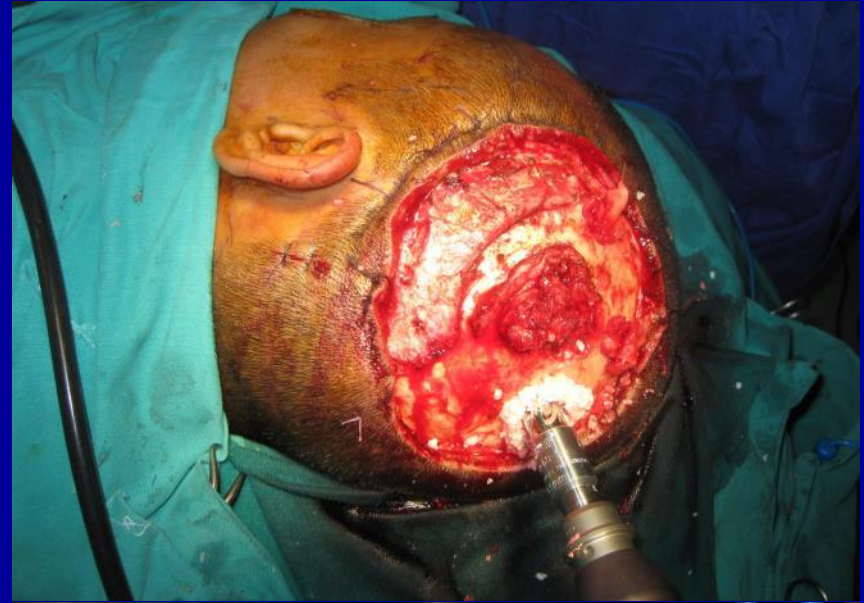


Bệnh nhân 7 Nam 61 t, SCC , Cắt U, nạo vét hạch, Chuyển vạt da xương



# KTC Phối hợp đa chuyên khoa trong các bệnh lý phức tạp







OR 11/19/12 1

05/30/2012 16:



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www.pstm.vn



## Kết luận

- + Microsurgery have applied in all subspecialty of surgery
- + Reconstruct of defect after remove of malignant tumor
- + Replant of avulsion facial parts in emergency ( scalp, nose, lip ear avulsions ... ) ,
- + Repair facial nerve palsy and consequence of trauma, burn...
- + Multiple disciplinary approach including: Oncology, Neurosurgery, ENT, Plastic and Maxillofacial surgery





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**Thank you for your attention!**