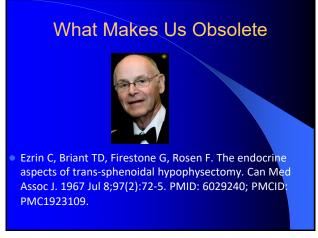




What Do Otolaryngologists Do Well

7 8



Introduction

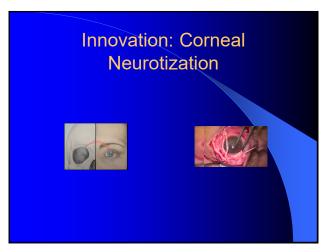
Corneal anesthesia can be a devastating problem.

Result in Neurotropic keropathy.

Corneal ulceration, infections loss of the eye.

10

9

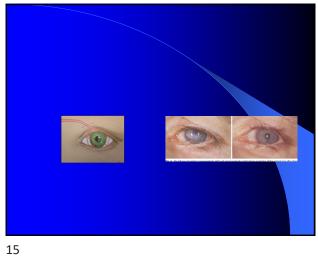


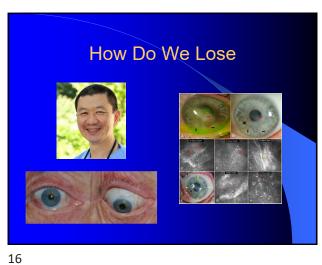


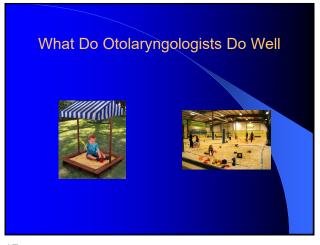
11 12







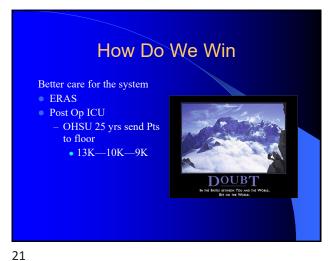


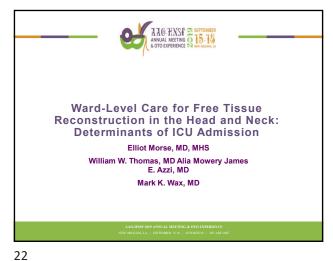






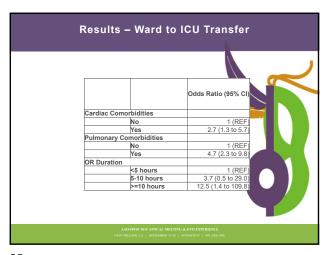


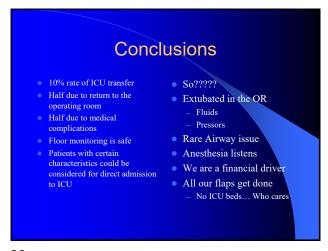


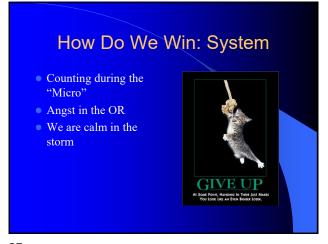


0	No. Patients	%	⊣ §		
Gender Male	598	69%			
Female	266	31%		No. Patients	%
Medical Comorbidi		3170	Flap		
Cardiac	460	53%	ALT	162	19%
Pulmonary	22	3%	Fibula	108	13%
Prior Radiation	246	40%	RFFF	436	50%
Site			Other	158	18%
Larynx	176	20%	Mean OR	7.41	00.0
OC (w/ Mandible)	186	22%	Duration	7.4 hours	SD=2
OC (w/o Mandible)	190	22%			
Other	312	36%			

	No. of Patients	Percentage		
Total Patients	864			
Transfer to ICU	90	10%	Day of Transfer	No. of Patient
Post return to OR	44	5%	POD 1	12
Flap Salvage	26	3%	POD 2	12
Bleeding/Hematoma	14	2%	POD 3	18
Washout	2	0%	POD 4-7	24
PEG placement	2	0%	POD 8-14	14
Non-OR Related	46	5%	> POD 14	10
Cardiac	16	2%	F 1 0 D 14	10
Respiratory	22	3%		
Sepsis	4	0%		
Altered Mental Status	4	0%		









27

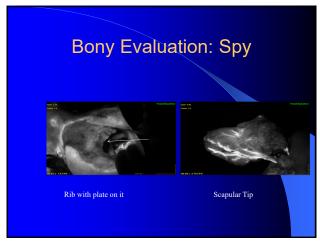




29 30

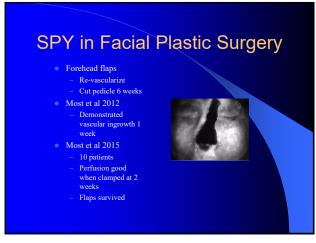


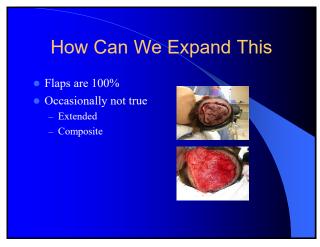










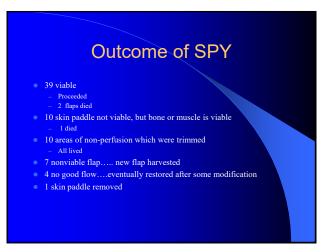


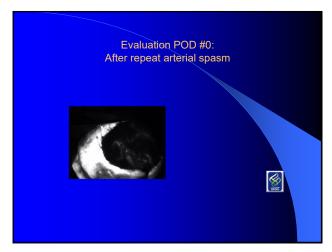




Spy Technology 18 assorted 39 Post anastomosis • Pale skin - 10 large flaps Spasm • 5 interventions Perforators not seen 11 Concern re viability Doppler funky • 6 viable • 2 skin dead bone good 9 Post op • 1 partial necrosis Composite tissue • 2 dead flap 5 interventions • 2 died eventually

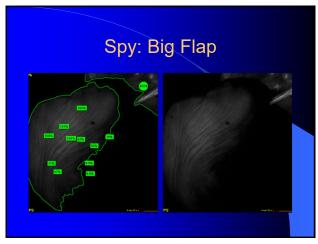
40





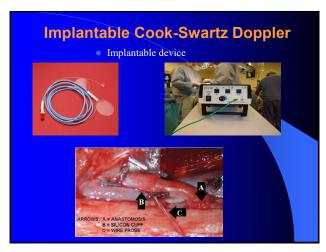


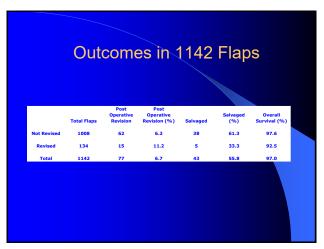


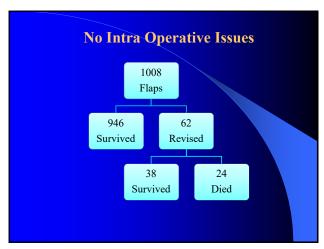


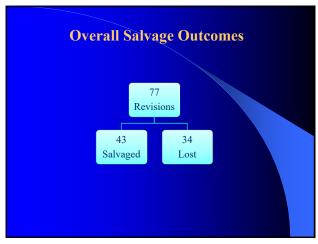


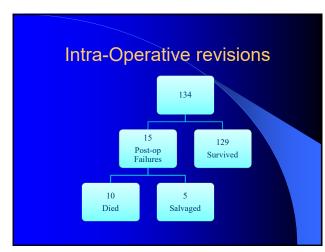




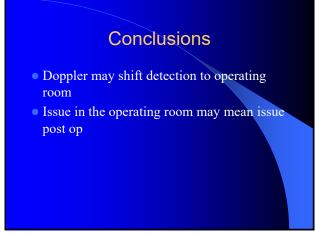


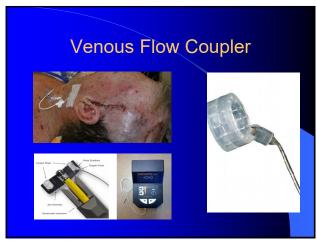




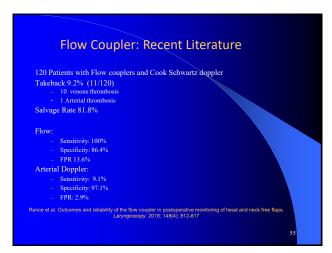


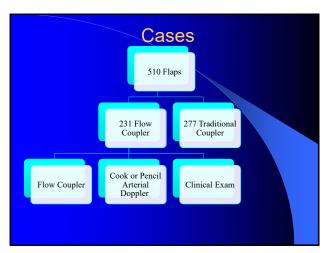
51 52

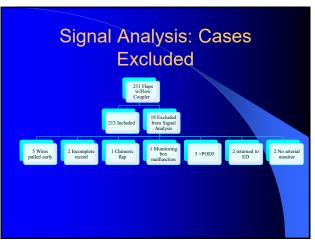


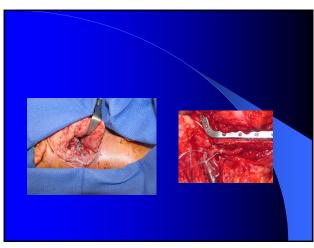


53 54

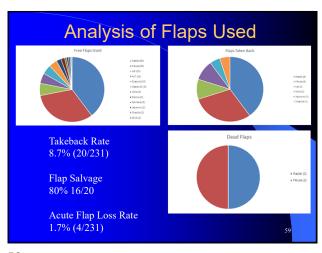






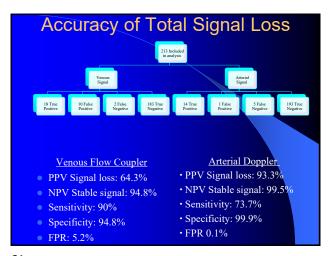


57 58





59 60

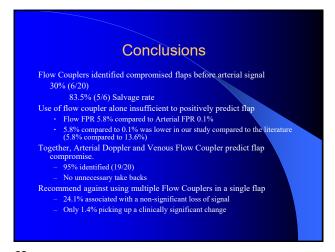


Ancillary Findings

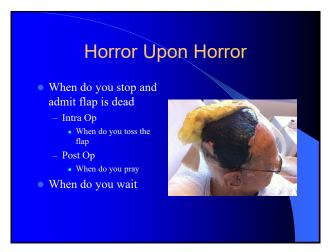
• 24.1% (7/29) of cases where 2x flow couplers were used had 1 loose signal and the flap was never taken back.

• 3.4% (1/29) were taken back after the second flow went silent with intra-op finding of venous thrombosis

61 62



63 64



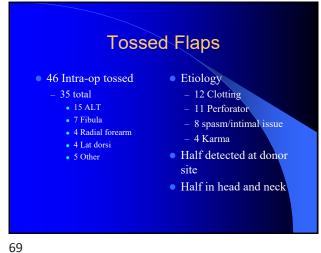
When is it Time To Call it a Day?
Hmmmmm there is no perforator....
I've been sewing and sewing and sewing

65 66



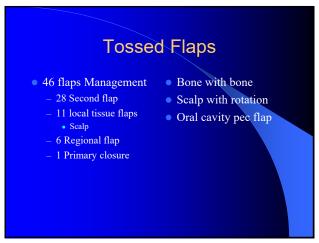
Tossing The Flap Institutions 7,423 flaps - OHSU 46 Intra-op tossed – WashU - 35 total - Fort Worth • 7 Fibula - UAB 4 Radial forearm - MYSC • 4 Lat dorsi - Thomas Jefferson • 5 Other - U of Kentucky - 11 partial (skin paddle) 8 Fibula

67 68



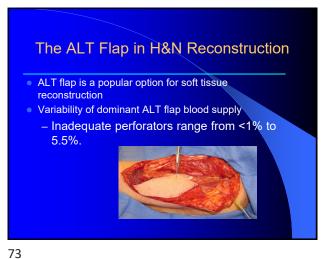
Tossed Flaps ALT 46 Intra-op tossed - 11 partial 4 muscle Fibula • 7 Fibula - 4 radial forearm - 2 pec - 1 muscle

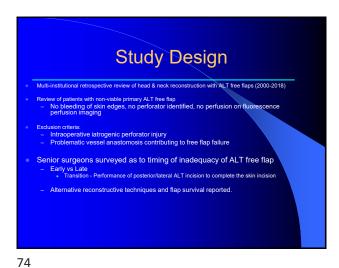
70

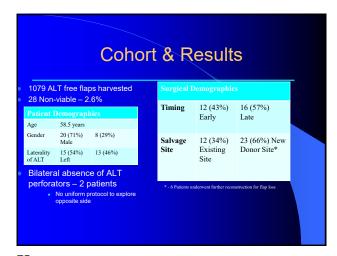


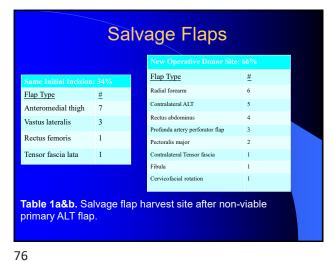
Incidence of Inadequate Perforators and Salvage Options for Anterior OHSU Lateral Thigh Flaps (ALT): A Multi-**Institutional Retrospective Review of** Over 1000 Flaps. Haley E Calcagno MS1, W. Walsh Thomas MD¹, Brett A Miles DDS MD², Steven B Cannady MD³, Matthew M Hanasono MD⁴, Mark K Wax MD1. ¹Oregon Health & Science University, Portland, OR; ²Mount Sinai, New York, NY; ³University of Pennsylvania, Philadelphia, PA; ⁴University of Texas-MD Anderson, Houston, TX

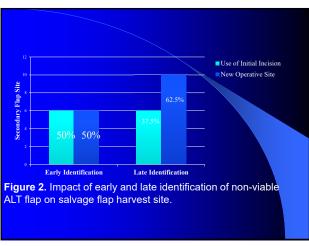
71 72

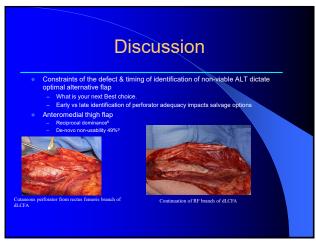








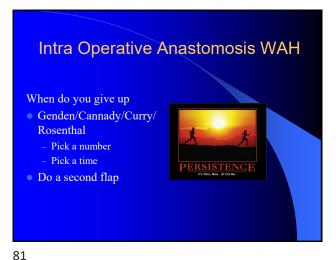






Conclusion Use your next best option to reconstruct the defect for these rare events Defect constraints dictate available options Early identification of a non-viable ALT free flap allows for many options for salvage with comparable flap characteristics and minimal additional morbidity.

79 80



Flap May Live..... Trouble with anastomosis Great inflow Sucky outflow Flap still blueish Let it be Go home Plan number 2 Living on hope Couple times a year

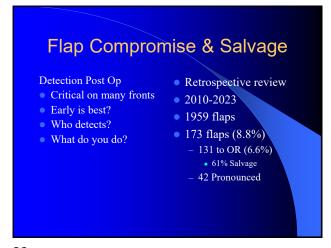
82

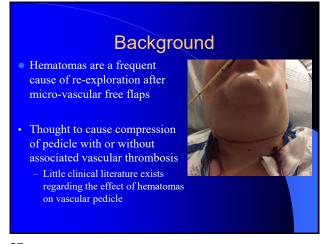


What is the Cost of Leaving a Dead Flap Boney Flap Needs another boney flap Come back in a few days • Is it just the skin??? • Pt is better if they have a few days

83 84







Study Design

Retrospective chart review of all patients undergoing free tissue transfer for head and neck reconstruction

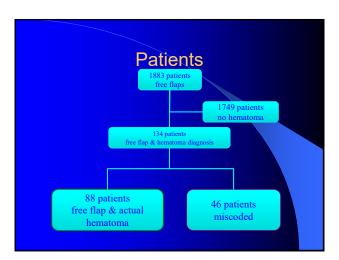
July 1998 to June 2014

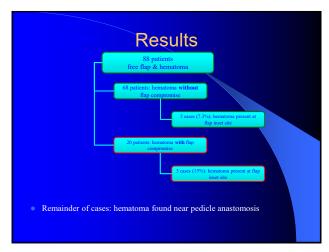
All patients were from a single tertiary referral center

Coding database was queried for all ICD-9 diagnoses associated with hematomas

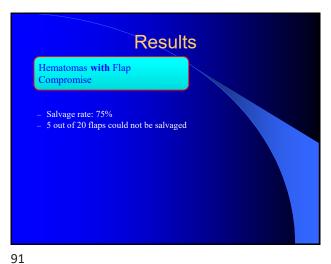
Free tissue transfer and hematoma lists were cross-referenced for matches

87 88





89 90

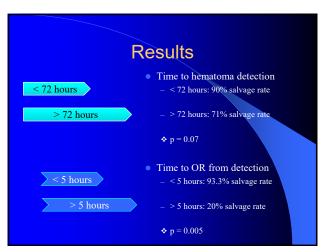


Results Flap salvage rate from hematomas: 75% versus 54% for other causes (p = 0.12)

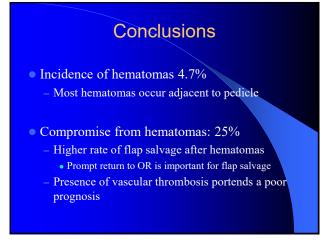
92

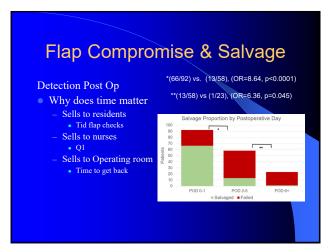
94

Re	Results				
Time to Detection	Time to OR from Detection				
• Salvageable: 35.3 hrs (3 – 139 hrs)	• Salvageable: 2.8 hrs (1 – 7 hrs)				
• Unsalvageable: 91.6 hrs (14 – 161 hrs)	• Unsalvageable: 12.4 hrs (1 – 38 hrs)				
	❖ p = 0.052				

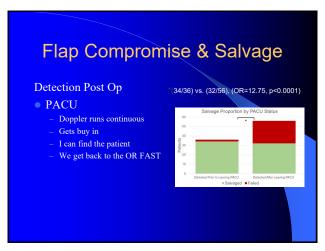


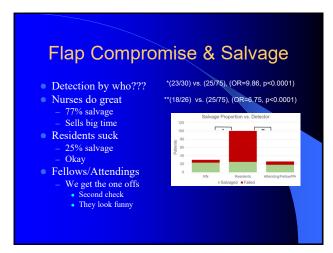
93

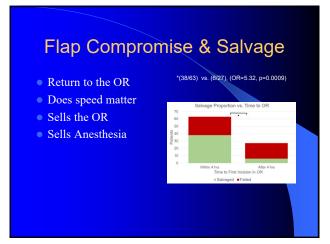




96 95

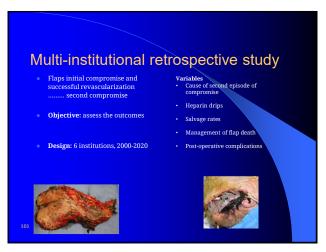








99 100



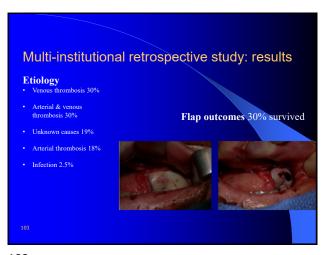
Multi-institutional retrospective study: results

• 3,510 Flaps

• 350 initial revisions:

• 79 second compromise

101 102



Multi-institutional retrospective study: results

Arterial or venous thrombectomy

• Flaps survived: 17/24 (71%)

• Flaps with necrosis: 23/35 (42%)

OR 3.38 (95% CI 1.21 to 9.47)

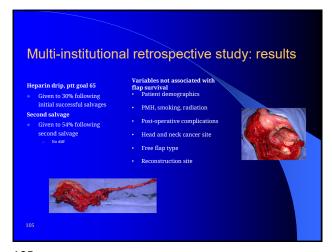
Vein revision to an alternative branch vein associated with flap necrosis:

• Flaps survived: 1/24 (5%)

• Flaps with necrosis: 19/55 (35%)

OR 0.13 (95% CI 0.01 to 1.2)

103 104



Multi-institutional retrospective study: results

Secondary reconstructions for flaps
with necrosis

Second free flaps 44%

Regional flaps 38%

Other 13%

Conservative care 5%

105 106

Second salvage: discussion

Second salvage outcomes

30% salvaged

Thrombectomy associated with successful revascularization

Flap with history of arterial/venous thrombosis, second salvage has a greater likelihood of success

Arterial thrombosis good prognostic indicator

Generalized venous congestion poor prognostic indicator

Second salvage: Discussion

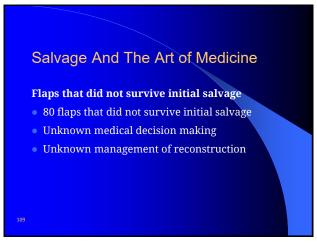
Consider second salvage:

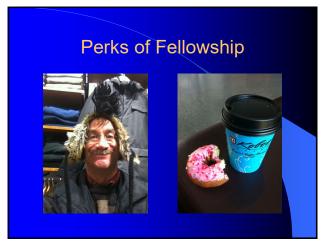
Preserve optimal reconstruction

Flap is otherwise healthy aside from isolated thrombus

Native anatomy provides vessels for revascularization

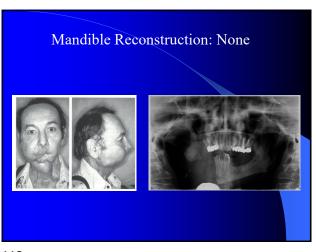
107 108





109 110



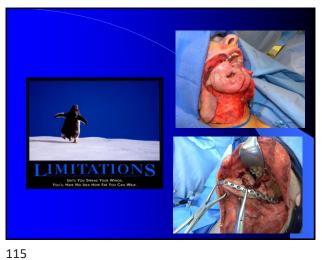


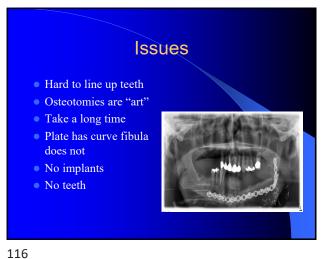
111 112





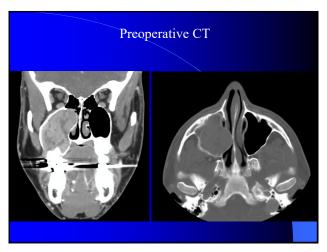
113 114



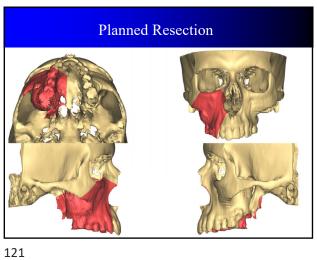


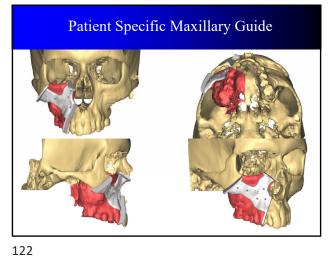


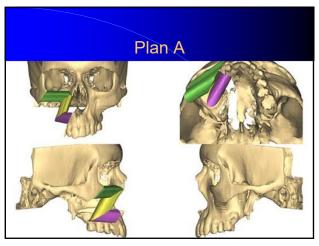


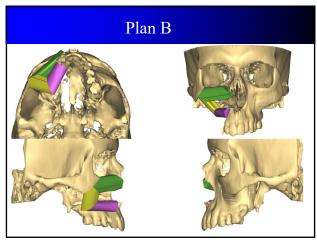


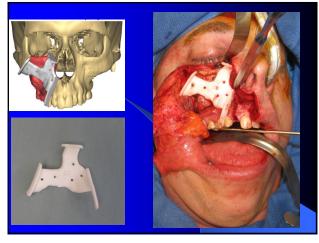


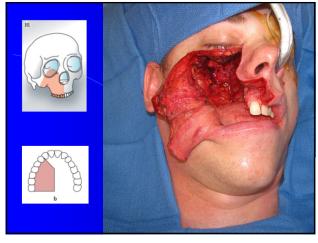


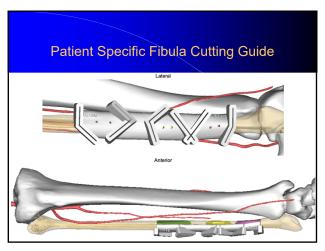


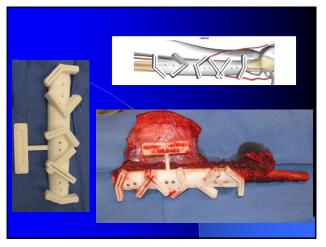




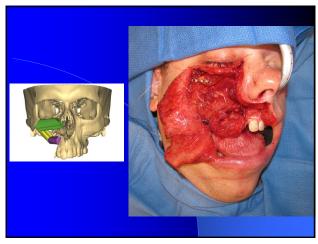








127 128





129 130

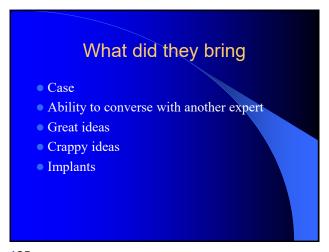




131 13







Initial experience

PSP
3D Modeling
CTA of fibula or other bone

>60 cases
Time
Learning curve

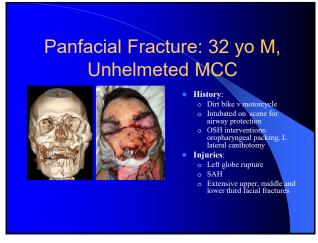
Now do carving in leg

15-30 min in leg
5 min in mouth

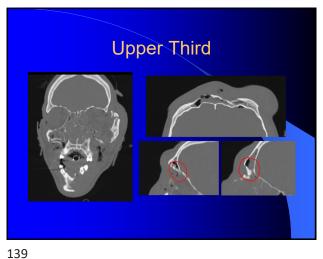
When not work is a pain

135 136





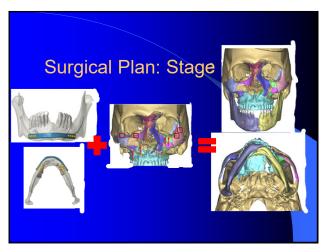
137 138







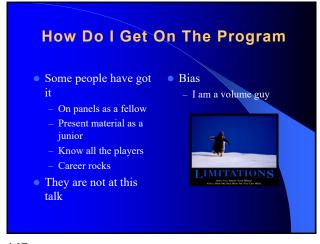








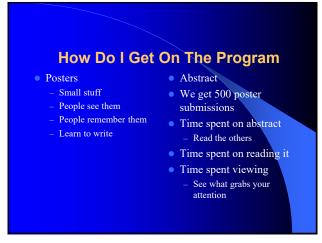




How Do I Get On The Program

Start early, start small
Any podium time is good time
The more people see you the more people will know you
Why do people go to talks
Topic
Presenter

147 148



How Do I Get On The Program

Scientific Sessions

What comes your way

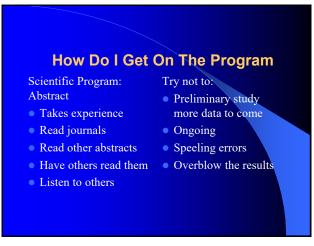
What do others present that you have "better" experience

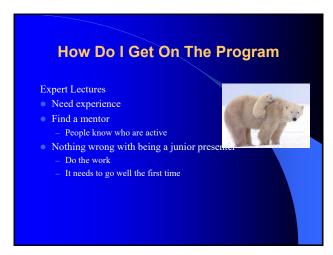
What do you do differently

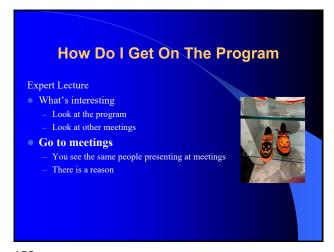
Submit
Plan ahead

What's hot

149 150







How Do I Get On The Program

Expert Lectures

Practice

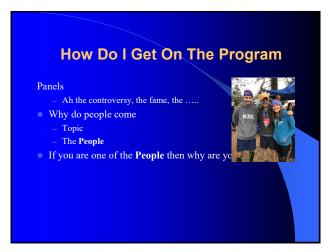
Make sure the talk works

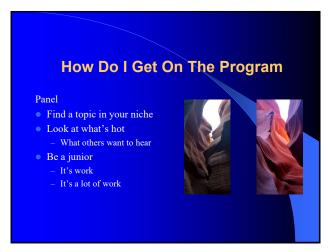
Videos.....

What do others do that you can try

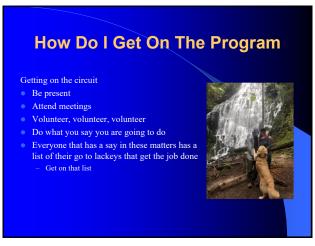
Make sure the talk works

153 154

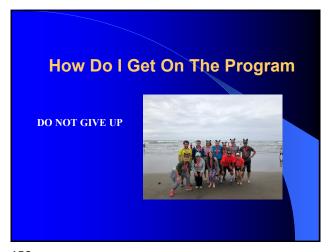




155 156







Pearls from Dr. Wax

Start small
Show up
Do the work
Volunteer
Get a mentor
Talk to those that you want to help you
Follow through

159 160

