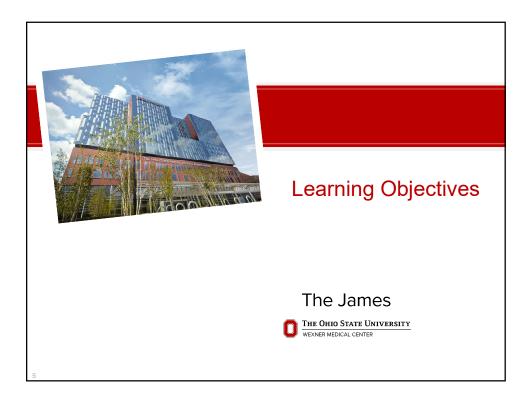
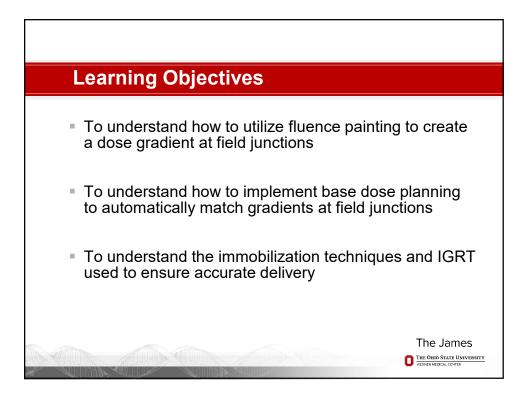
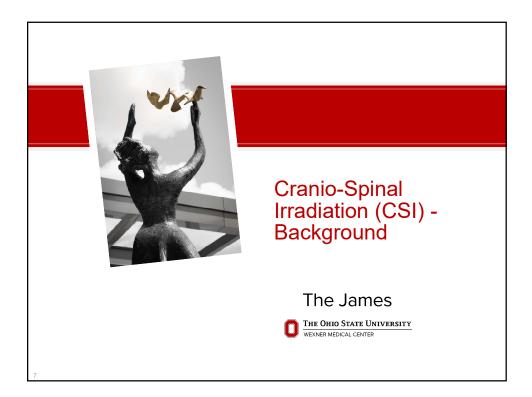
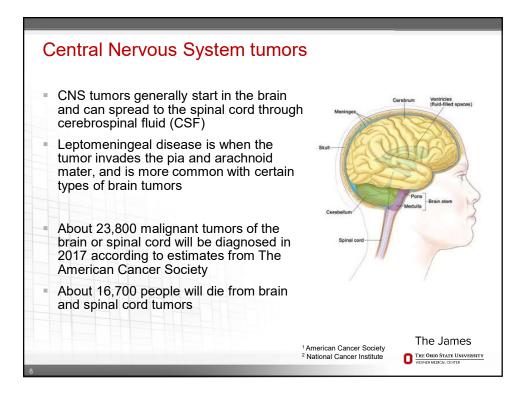


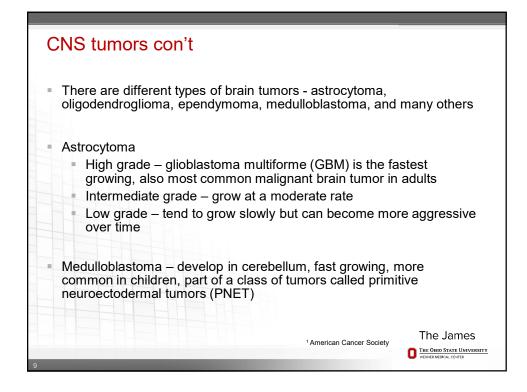
AAMD Region VI Meeting November 3 - 4, 2017 Columbus, OH

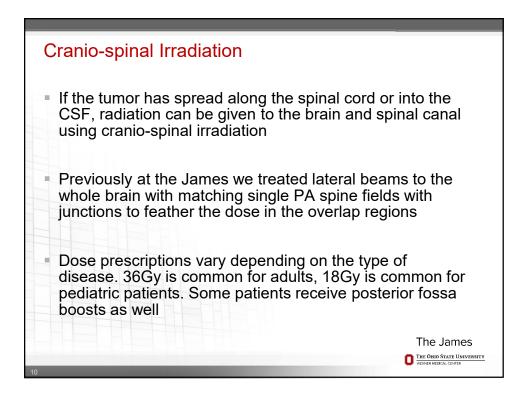


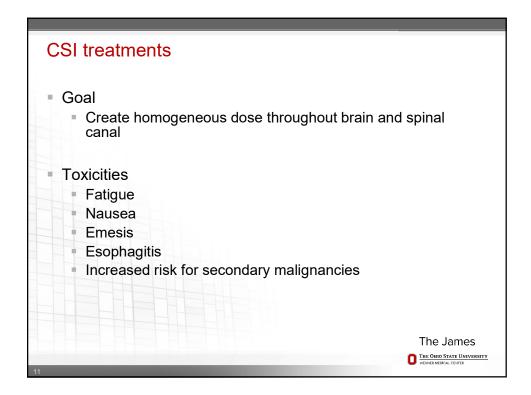


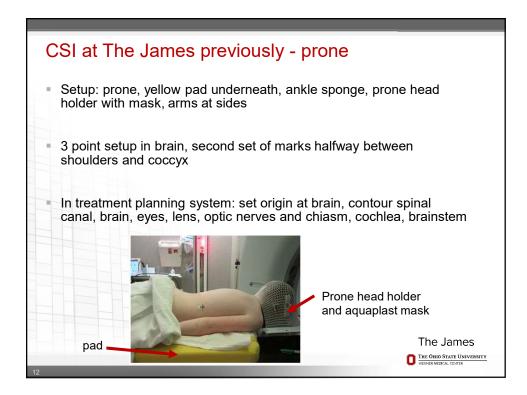


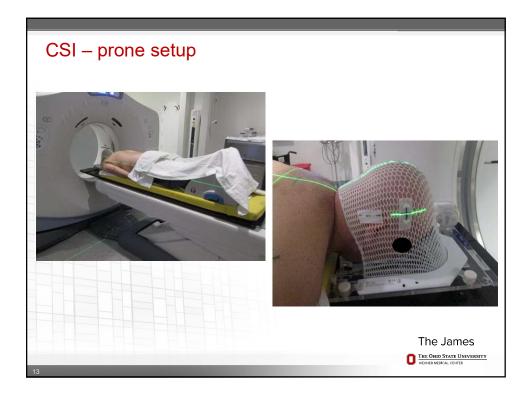


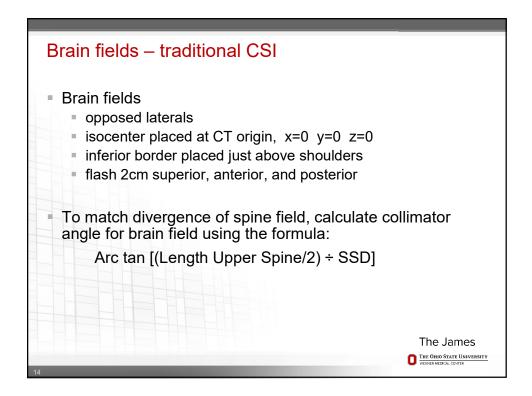


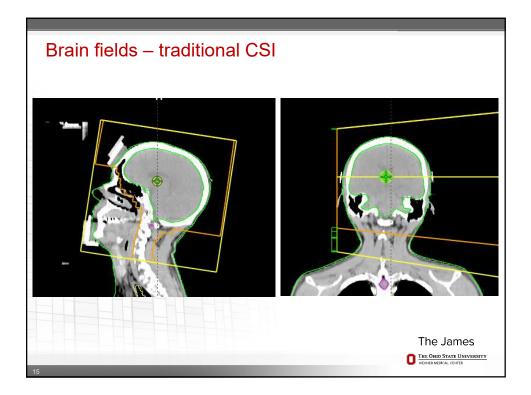


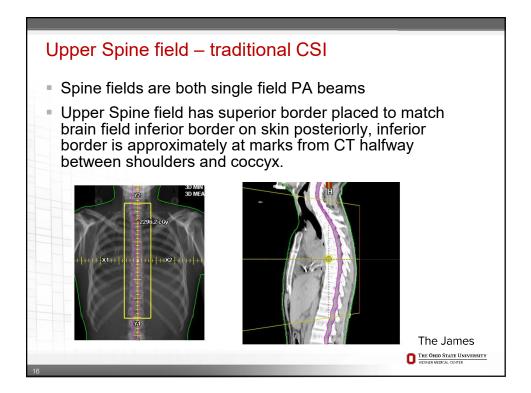


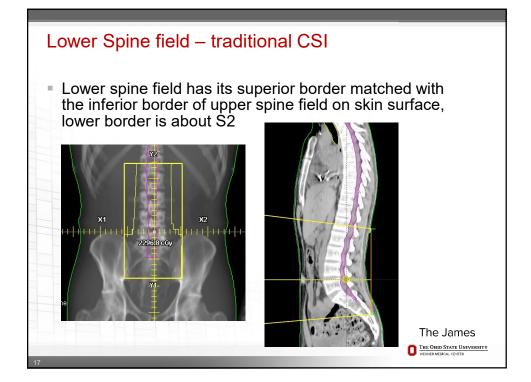


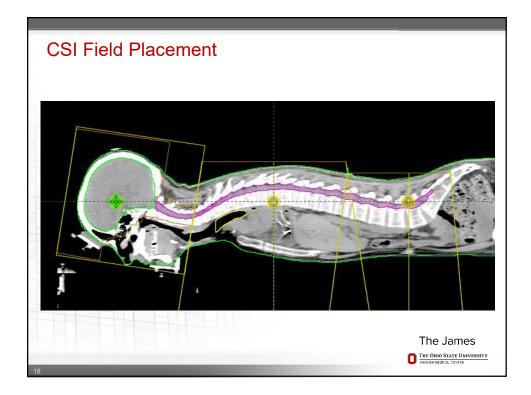


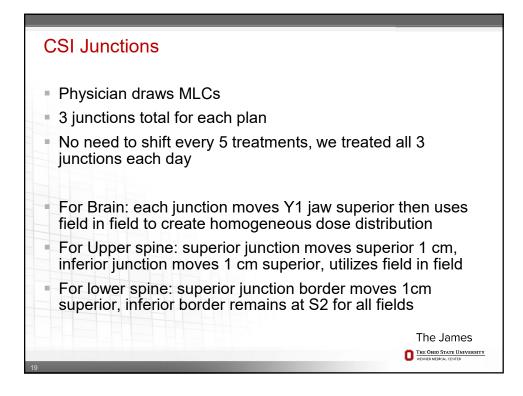


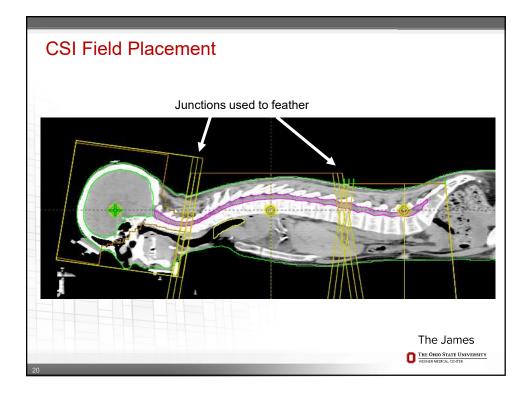


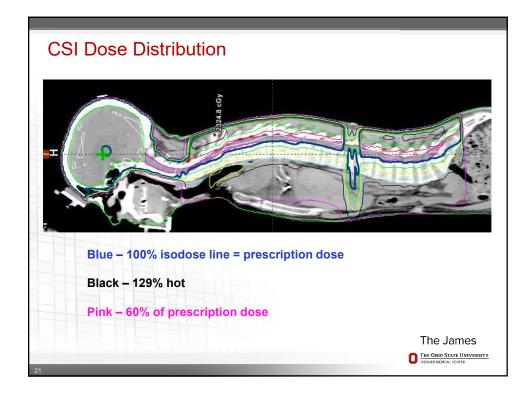




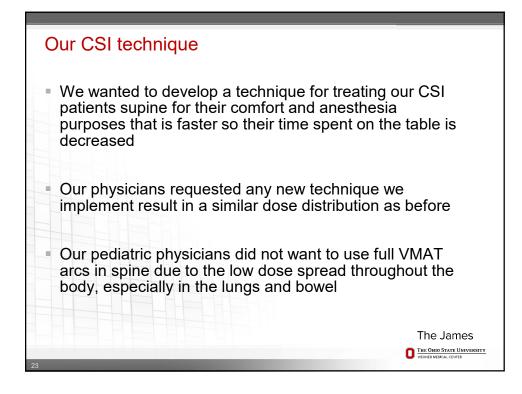


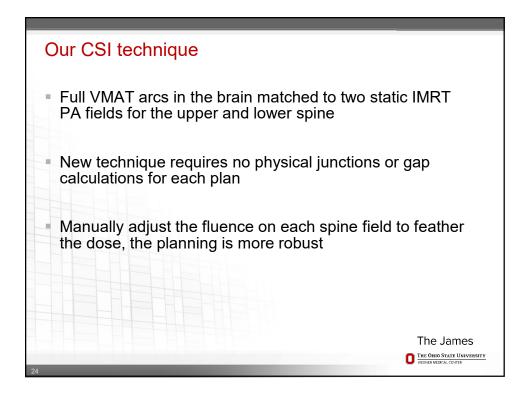


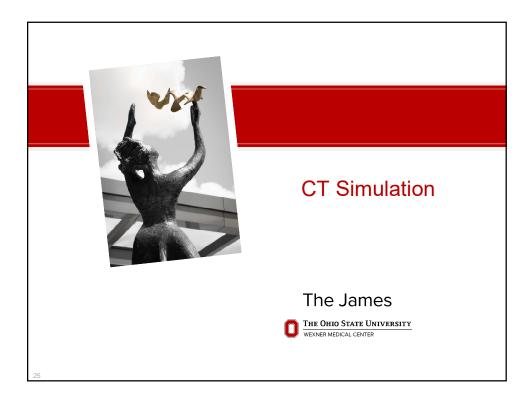


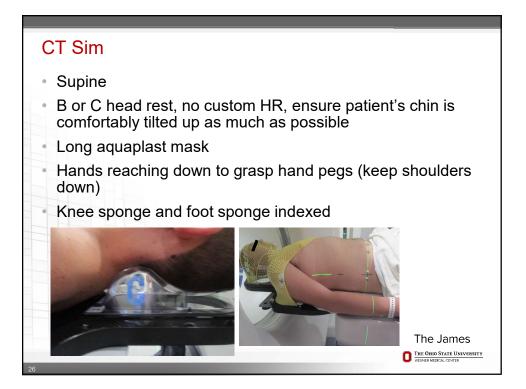




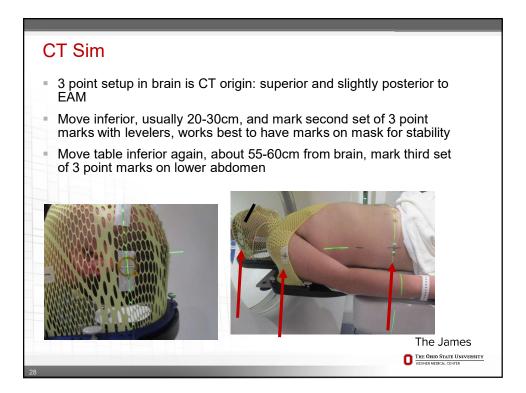


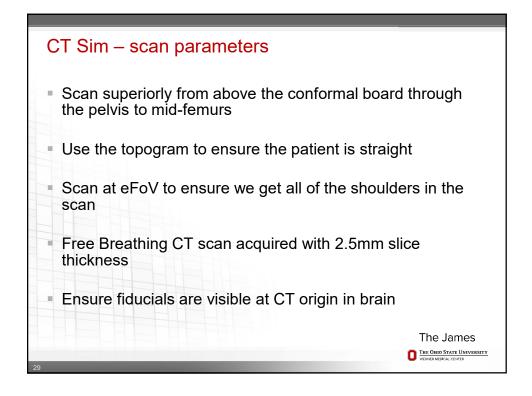


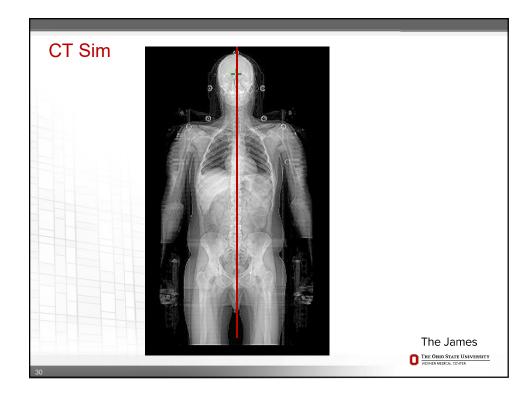




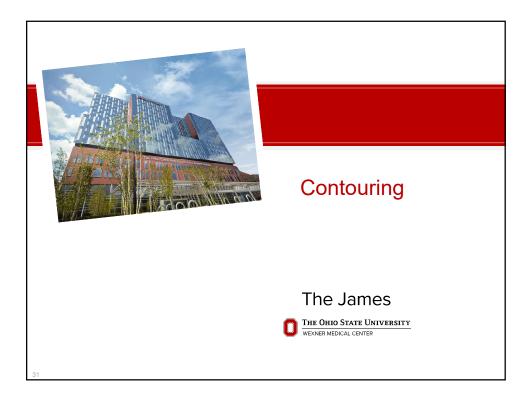


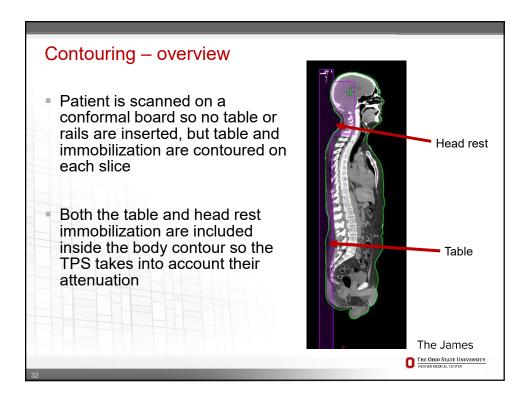


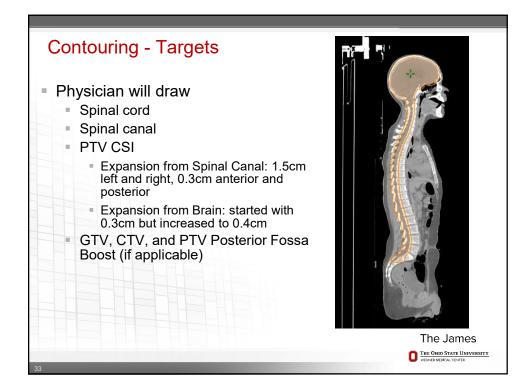


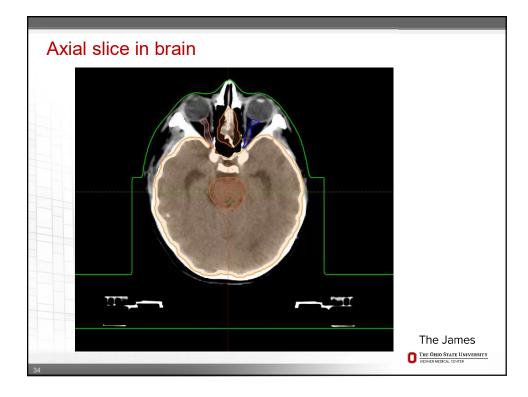


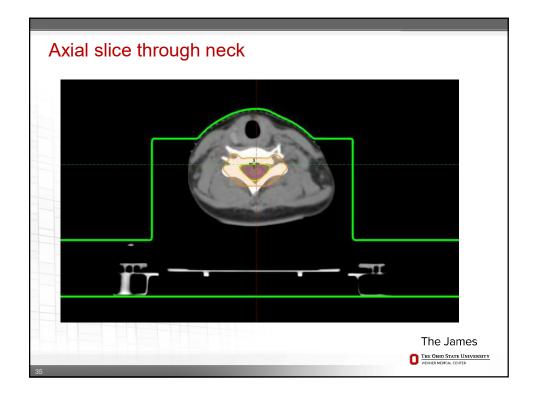
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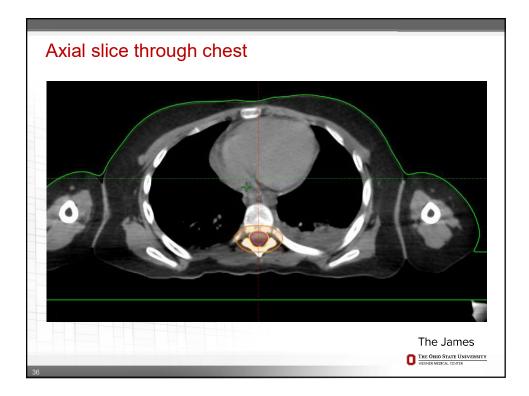


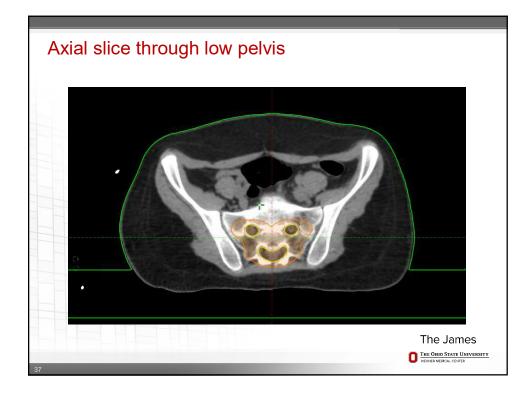




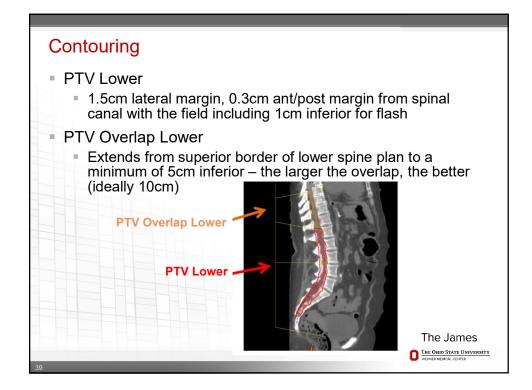


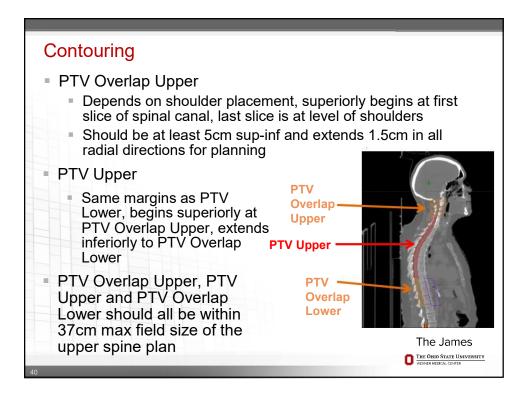


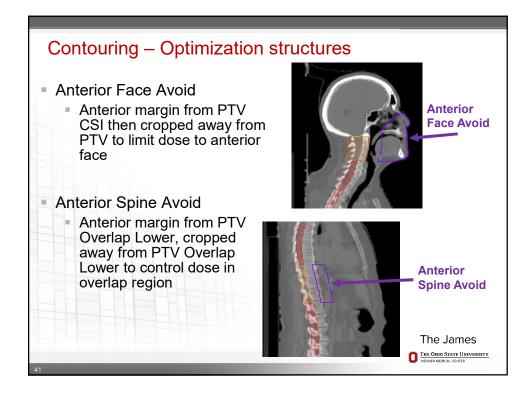




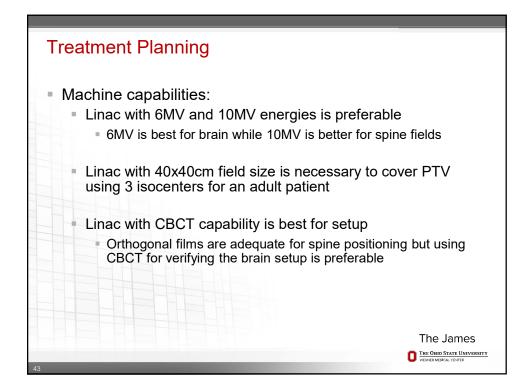
To be co	ng – Norma ontoured by d can be contoured	osimetrist or	physician:	
Bowel	Eye Lt	Larynx	Lung Lt	Optic Nerve Rt
Brain	Eye Rt	Kidney Lt	Lung Rt	Retina Lt
Brainstem	Esophagus	Kidney Rt	Oral Cavity	Retina Rt
Cochlea Lt	Genitalia	Lens Lt	Optic Chiasm	Bones
Cochlea Rt	Heart	Lens Rt	Optic Nerve Lt	
38				The James



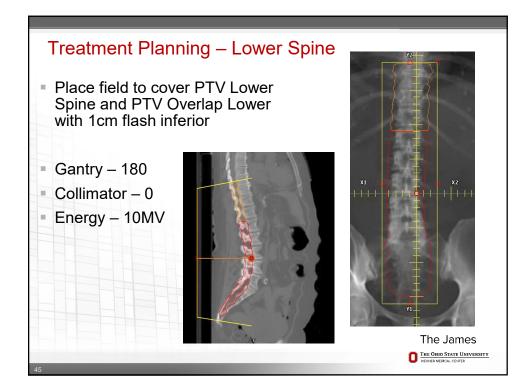




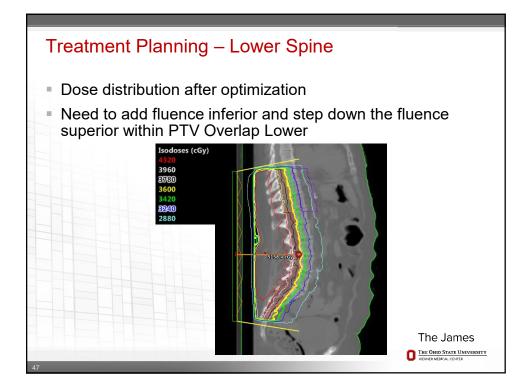


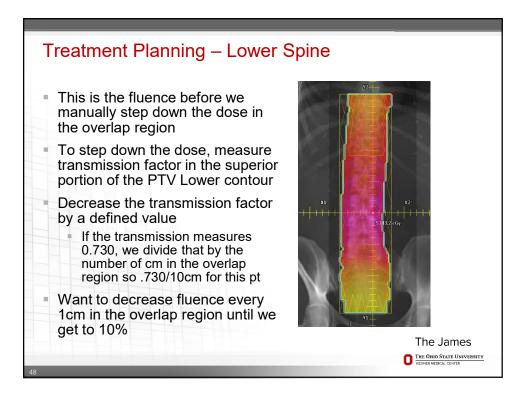


Treatment Planning
5
 Start with Lower Spine plan Each plan is based off the plan inferior to it, so we start with the most inferior plan
IMRT field using single PA beam, energy is 10MV
 Once calculated, we edit the fluence in the overlap region from the hottest reading to about 10%
 Calculate using sliding window
 Goal is to have 100% isodose line following the shape of the spinal canal
The James
THE OHIO STATE UNIVERSITY WORREN MEDICAL CONTR

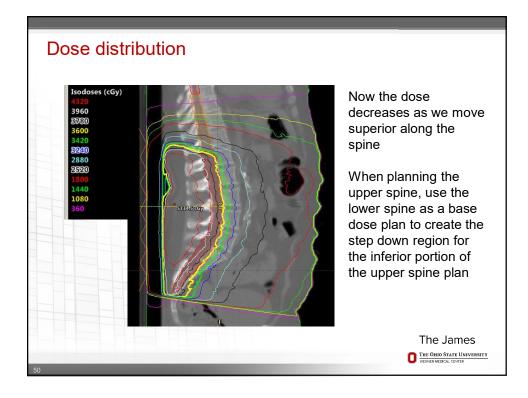


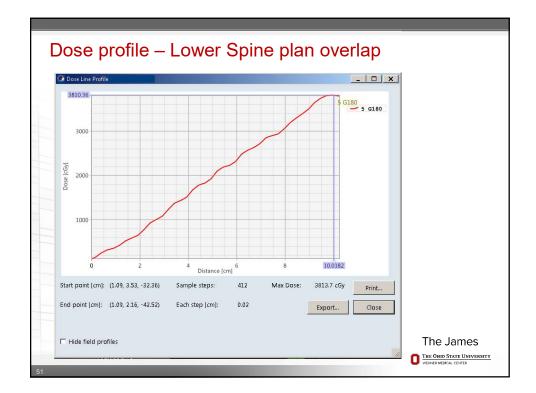
Treatm	nent Plan	ning –	Low	ver Sp	oine			
 Optim 	nization obj	ectives						
۲	ID/Type	Vol[cm ²]	Vol [%]	Dose [cGy]	Actual Dose [cGy]	Priority	gEUD a	
	PTV LOWER	291.8						
	Upper		0.0	4100		125		x
	Lower		100.0	3600		125		x
	PTV OVERLAP LO	W 56.4						
	Upper		0.0	4100		125		x
	Lower		100.0	3600		125		x
	Ant Spine Avoid	102.0						
	Upper		0.0	3240		75		x
	BODY	124609.9						
								The James he Ohio State Universit exner medical center

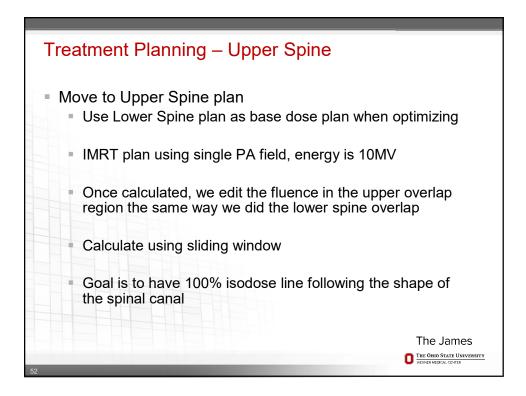


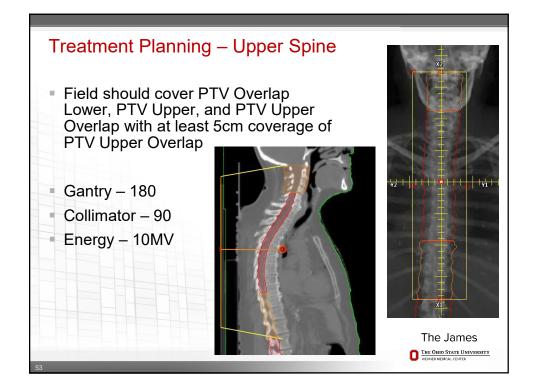


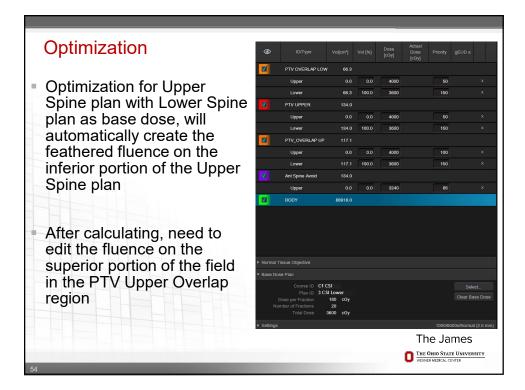
Editing Fluence	
	1
Fluence Editor	
Optimal Fluence	
Tool options	
Brushes 🔲 💽 💽	
Brush size 7.00 cm	
Transmission Factor 0.073	
Visualization	
Use colors Lower 0.000	
I Isolevels Upper 0.921	
Use Shading	
C Show actual fluence with resolution used in dose calculation x22	
Opacity	
OK Cancel Apply	
	The James
	THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER
49	

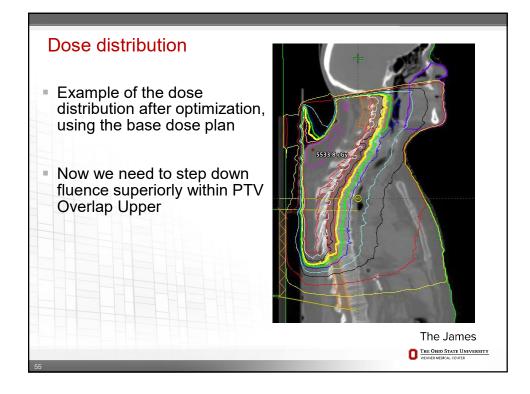


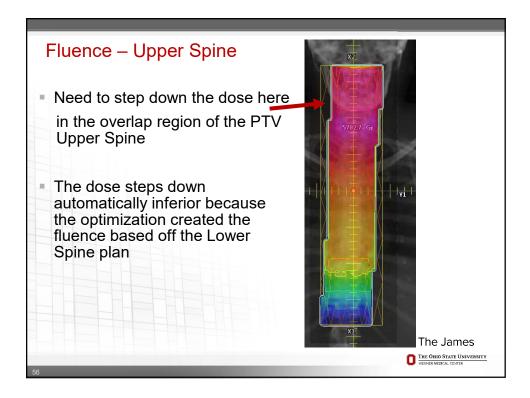




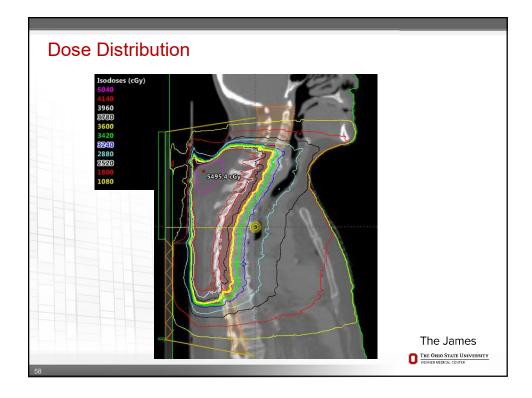


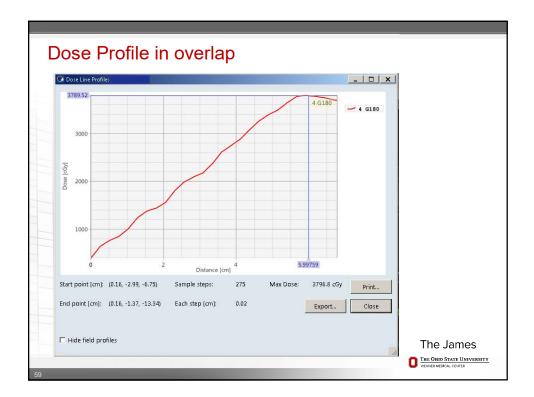


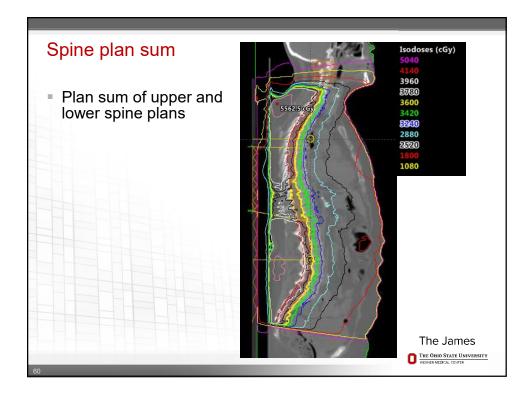


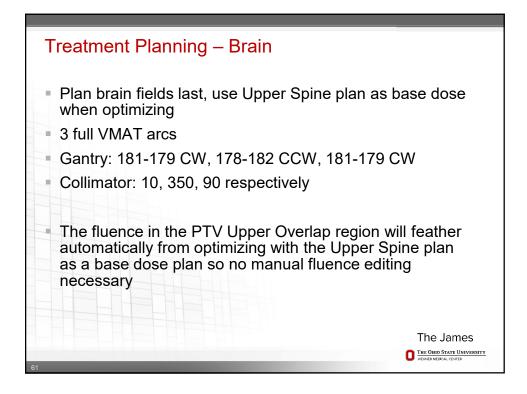


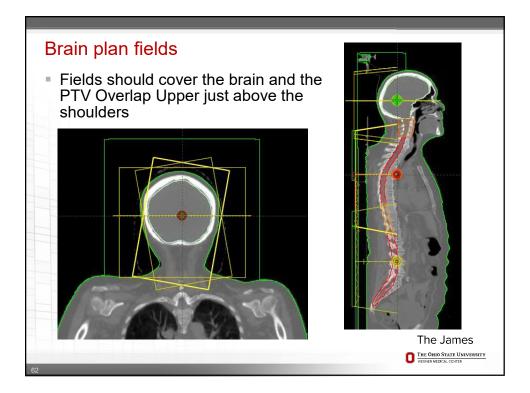
OK Cancel Apply	Editing fluence	$\frac{0.861}{6 \text{cm}}$ = 0.143 is transmission factor		
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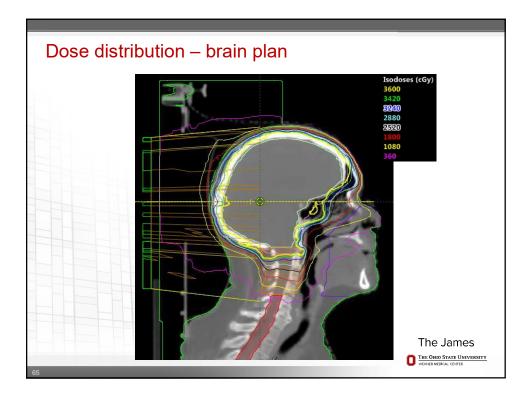


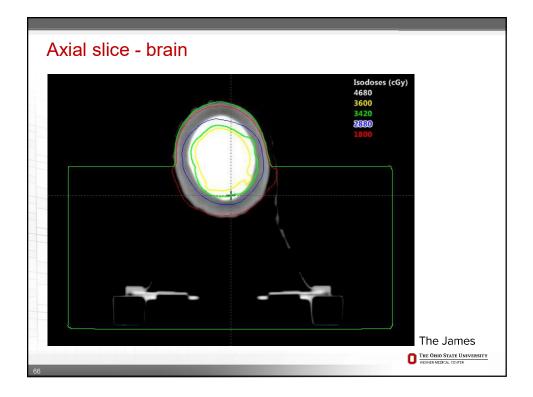


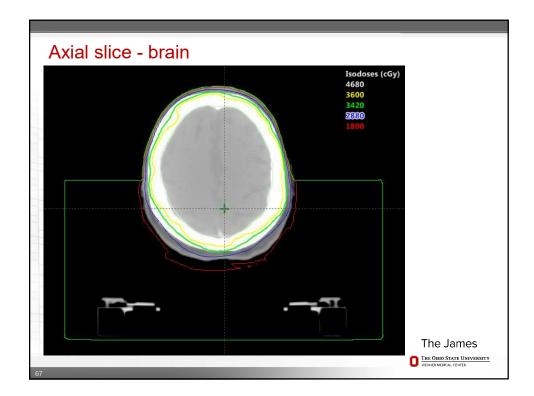


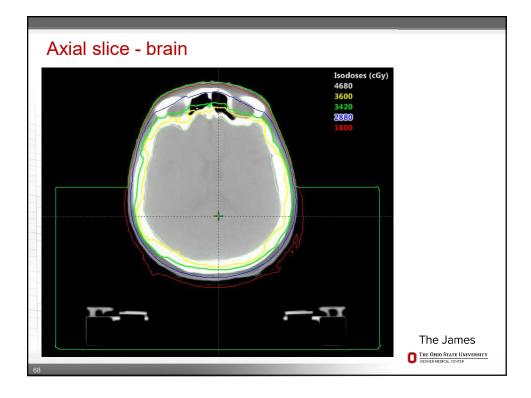
)ptir	nization obje	ectives	5			
۹	ID/Type Vol[cm	*] Vol [%]	Dose [cGy]	Actual Dose Priority [cGy]	gEUD a	
	3_PPTV_Brain 148	3.6				
	Upper	0.0	3700	125		
	Lower	100.0	3600	125		
	PTV_OVERLAP UP 11	7.1				
	Upper	0.0	3850	125		
	Lower	100.0	3600	125		
	Ant Face Avoid 54	6.8				
	Mean		800	70		
	Cochlea L	0.2				
	Upper	0.0	2500	60		
	Mean		1500	60		
	Cochlea R	0.2				
	Upper	0.0	2500	60		
	Mean		1500	60		The Jame

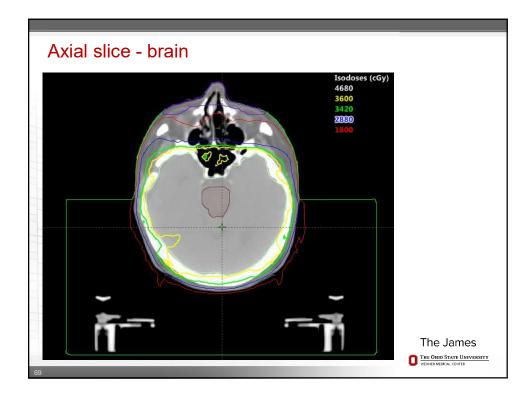
imiza [.]	e Left	9.0					
			0.0	(T-000)		x	
	Upper		0.0	2000	60	*	
Ey	e Right	8.9					
	Upper		0.0	2000	60	×	
🗾 Lei	ns Left	0.2					
	Upper		0.0	1000	50	x	
🗹 Lei	ns Right	0.2					
	Upper		0.0	1000	50	×	
Re Re	tina_L	3.6					
	Upper		0.0	2000	50	×	
😴 Re	tina_R	3.7					
-	Upper		0.0	2000	50	x	
_							
ВС	DY	88918.0					
Normal Tissue	Objective						
MU Objective							
✓ Base Dose Pla	0						
	Course ID Plan ID	C1 CSI 2 CSI Upper				Select	
Dose r	per Fraction	180 cGy				ear Base Dose	The Jan
		20					The Jun

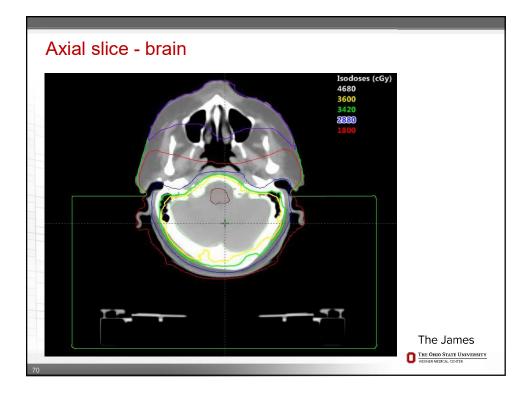


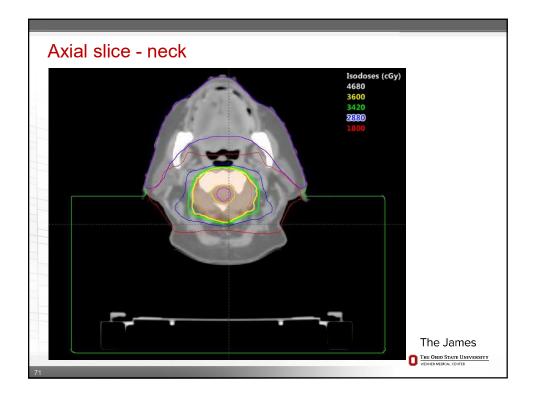


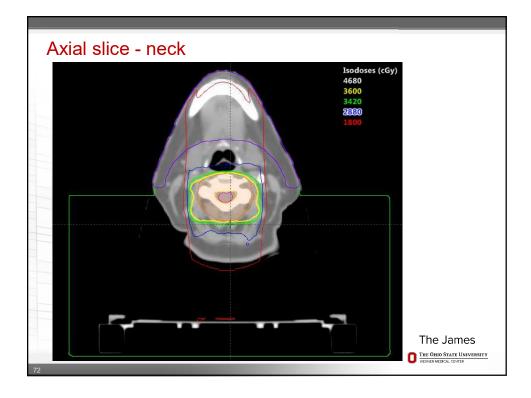


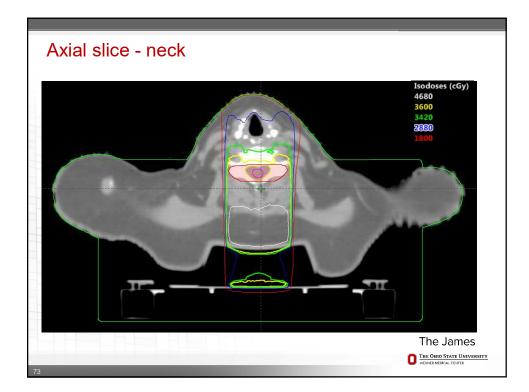


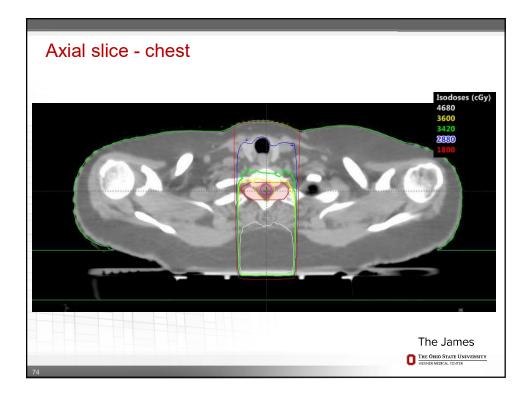


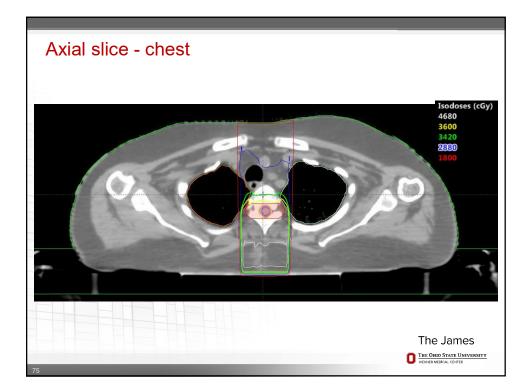


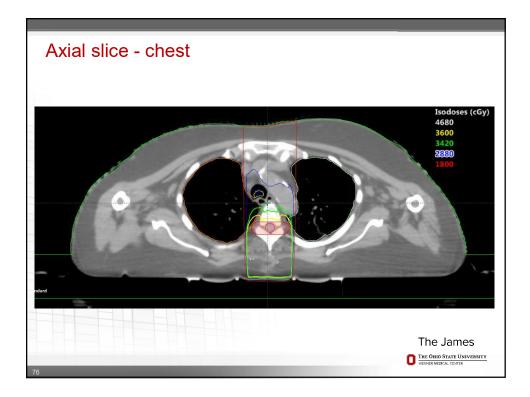


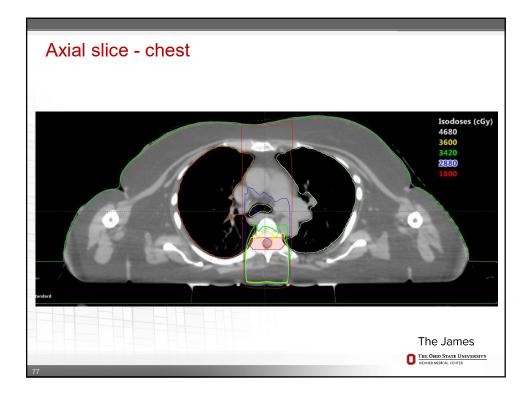


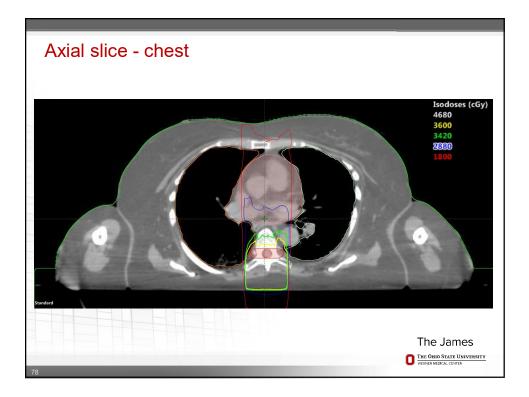


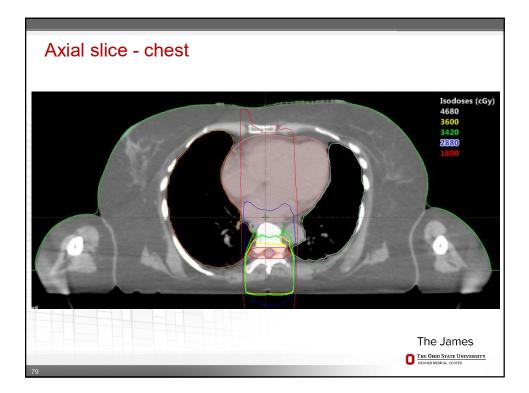


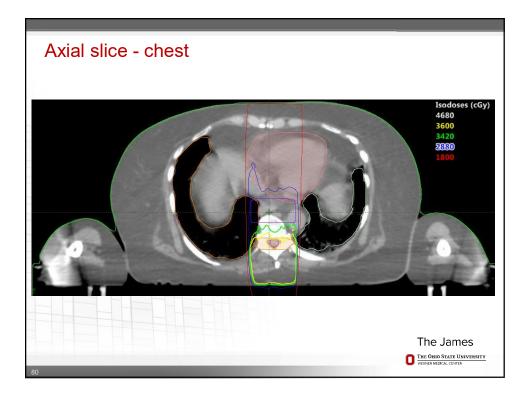


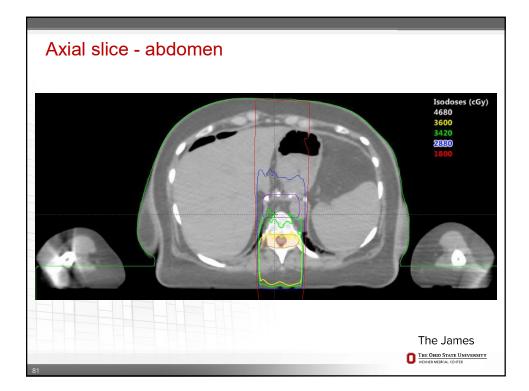


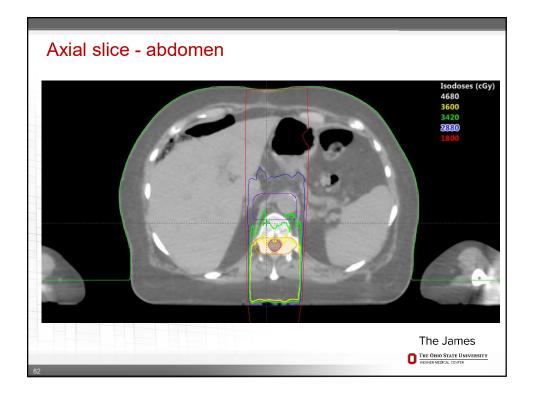


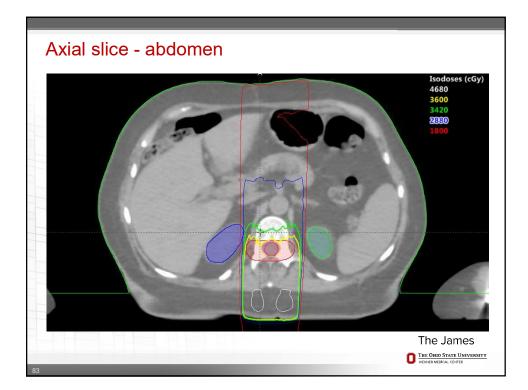




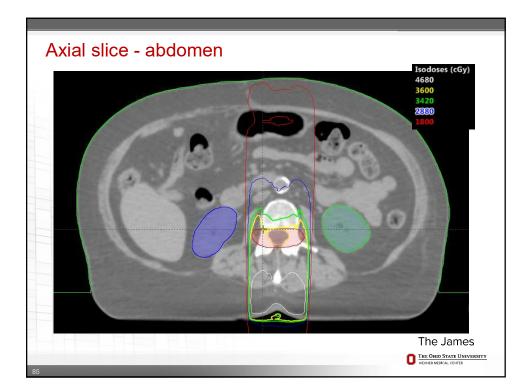


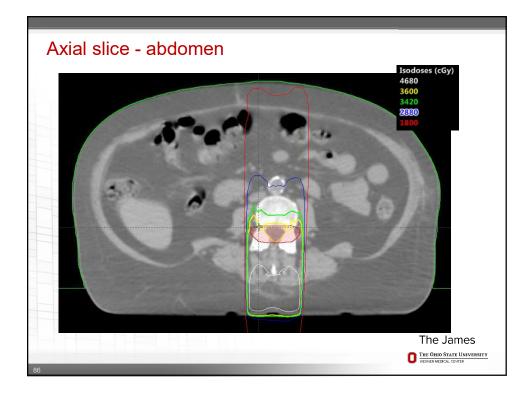


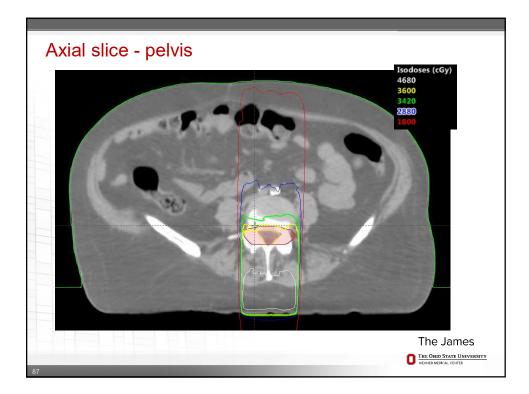


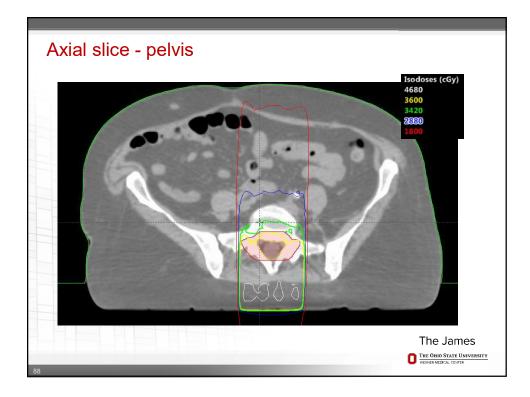


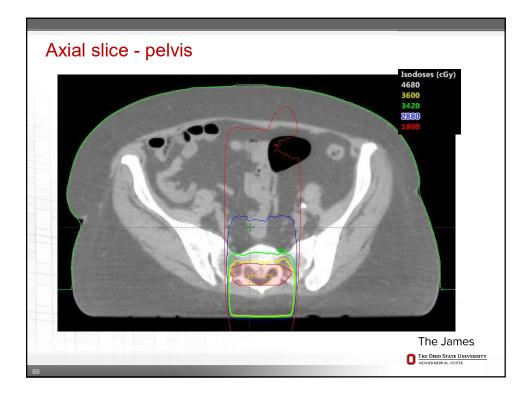


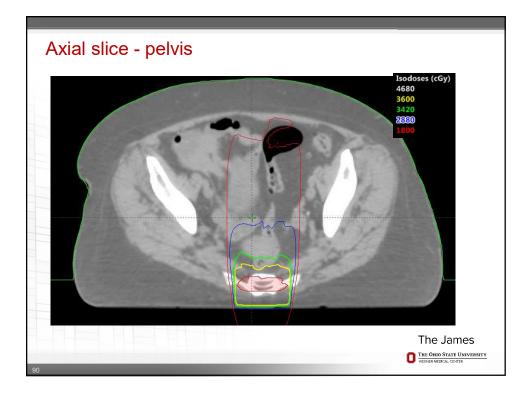


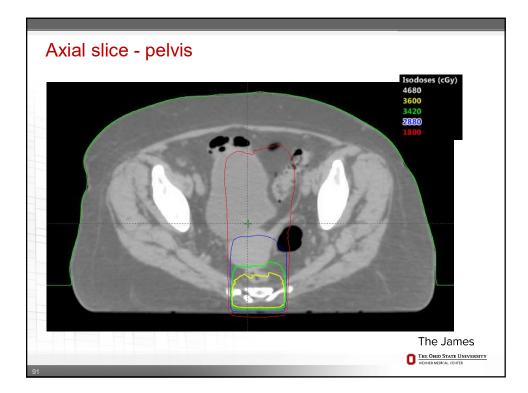


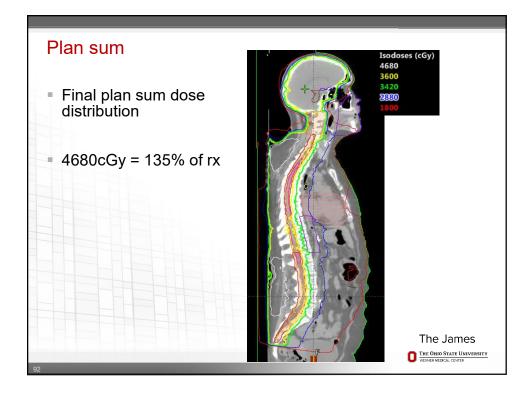


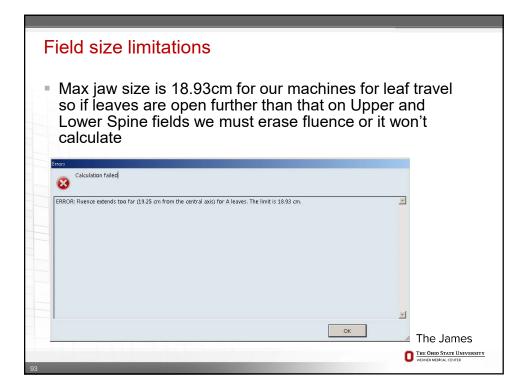


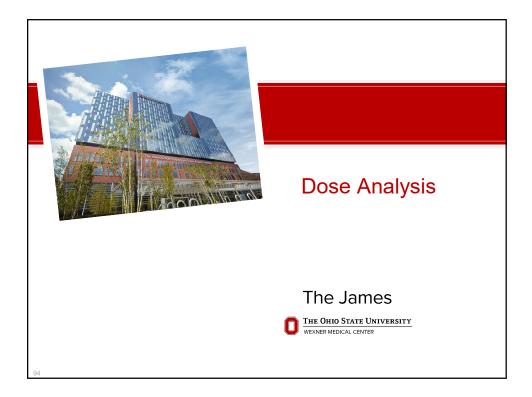


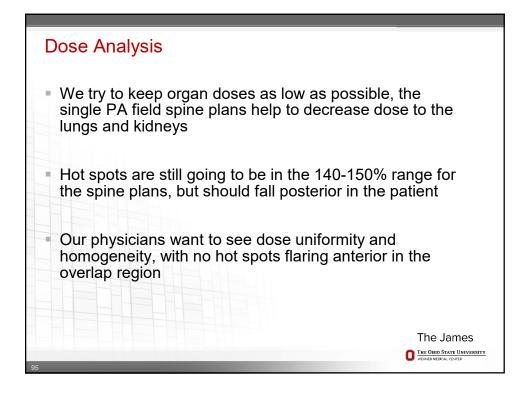












Dose A	nalysis	
ALAR	kidney, oral cavity, and bowel doses fol A principle lan a boost to the brain, we use these o	
#1 is highest	Critical Structure (Priorities)	
1	Brainstem: • Absolute Limit <1cc to >6000 cGy, Goal Limit <1cc to >5400cGy	
2	Austitute Ennit <10 2000 CGy, Boar Ennit <10 204000Gy Optic Chiasm: Max Point Dose <5400 CGy	
3	Optic Nerves: • Max Point Dose <5400 cGy	
4	Retinas: • Max Point Dose Absolute Limit <5400 cGy, Goal Limit <4500 cGy	
5	Contralateral Cochlea: Limit Mean Dose < 3800 cGy. Goal Mean Dose <3000 cGy	
6	Ipsilateral Cochlea: • ALARA	
7	Brain – PTV: • <50% to >3000 cGy	
		The James
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