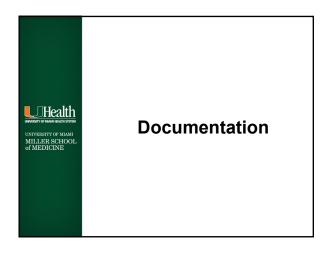
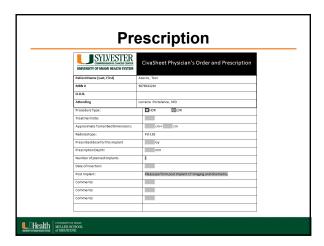
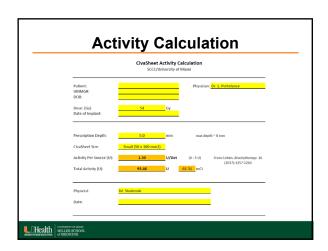
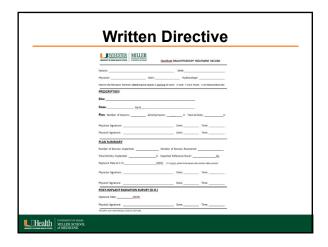
Going Live with CivaSheet: Steps for Treatment Planning and Commissioning UNIVERTITY OF MADIL MILLIERT SCHOOL OF MEDICINE Matthew Studenski, PhD, DABR Associate Professor	
Disclosures • None	

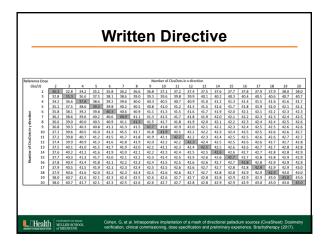
Objectives Documentation TPS Commissioning Clinical tips and tricks	

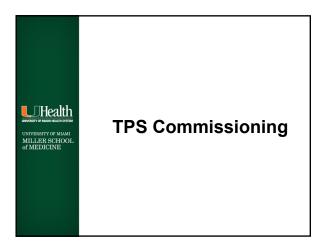












TPS Commissioning

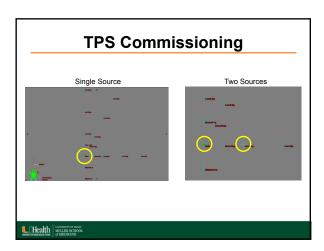
- Varian BrachyVision
- TG-43 source modeling
- Source parameters provided by the vendor
 Dose rate constant
 Radial dose function

 - Anisotropy function
- All data have been calculated using MC



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TPS Commissioning Health MILLER SCHOOL of MEDICINE



TPS Commissioning Health MILLER SCHOOL of MEDICINE



Tips & Tricks

Case Studies

- 9 scheduled cases, 6 implanted
- Leiomyosarcoma of the retroperitoneum
 Marginally resected and then underwent radiation and chemotherapy
 - Follow-up surgery to inspect possible residual disease of the S1 nerve root
- 2. Sarcoma at the bifurcation of the aorta
 - · Excessive tumor growth
- 3. Left buttock sarcoma
 - Tiny, curved tumor bedSurgeon's first case

Case Study #2

- 19 y/o female
- Malignant phylloides tumor of right breast
 Partial mastectomy followed up by radiation and
- Tumor recurred in right chestwall
 Plan was to resect tumor and chest wall and place the CivaSheet around the resected chestwall
- 55 Gy to 5 mm

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Case Study #2

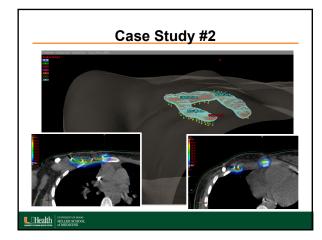


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Case Study #2



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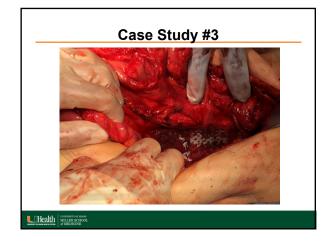
Case Study #3

- 44 y/o female

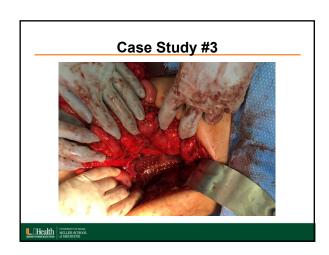
- Retroperitoneal liposarcoma
 Resected in 2008 followed by radiation therapy
 Recurrence in 2017, again resected and radiation therapy
- Tumor recurred again near left psoas muscle
- Plan was to resect tumor with partial colonectomy and place the CivaSheet in tumor bed
- 40 Gy to 5 mm

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Case Study #3



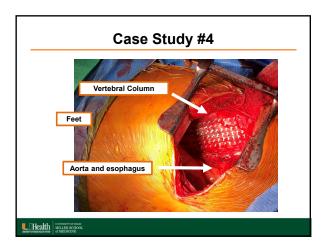


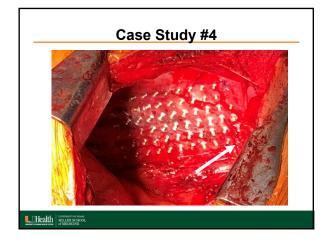


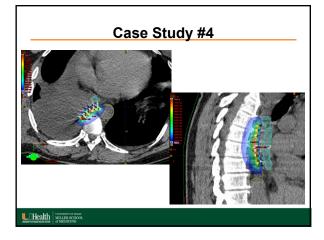
Case Study #3 WILLER SCHOOL of MEDICINE

Case Study #4

- 64 y/o male
 Mediastinal liposarcoma
 Radiation therapy (30 Gy in 5 fx) to the mediastinum followed by surgery
 CivaSheet to be placed in tumor bed
 45 Gy to 5 mm



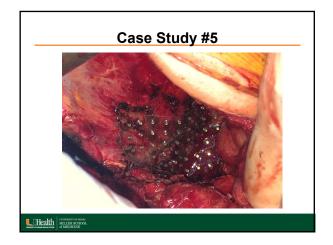


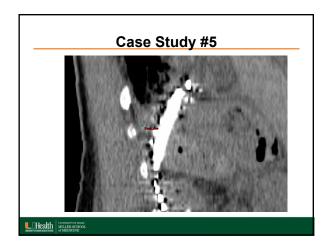


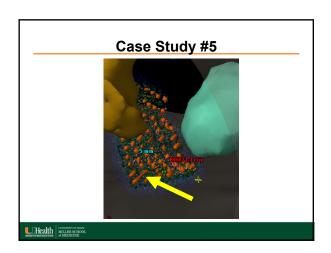
Case Study #5

- Patient previously treated with CivaSheetRetroperitoneal liposarcoma near left psoas
- Tumor recurred superior to the previous CivaSheet
- 45 Gy to 5 mm

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of MEDICINE







Case Study #5	
Health STREET	

CivaSheet

- Safely implemented new technology
- · Careful commissioning
- · Policies and procedures in place
- · Take pictures!
- Threshold the sheet for post implant dosimetry

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Thank you!

- Physicians Drs. Portelance and Yechieli
- · CivaTech Support
 - Ren Babcock

	-
Health William Str.	