





Wednesday, July 17th, 10:15 am – 12:15 pm Stars at Night Ballroom 2-3



Why Should Medical Physicis	ts
Communicate with Patients?	

Todd Atwood, PhD

Associate Professor Radiation Medicine & Applied Sciences

UC San Diego Health

RETHINKING MEDICAL PHYSICS

How did this project begin?

Patients

More patients are searching for ways to be involved in their care Rutten L, et al. Patient Educ Couns (2005)

Online patient information is too complex for the general population (ii) Roserburg S., et al. Pract Radiat Oncol (2017)

Patient related distress can negatively impact outcomes following radiation therapy

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Radiation Oncologists

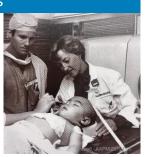
Faced a dilemma of clinical practice in the latter half of last century

Often viewed merely as technicians treating referrals

Began to participate in tumor boards, multidisciplinary clinics, etc.

Transformed from radiotherapist to radiation oncologist

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Physics Direct Patient Care Initiative

Establish an independent professional relationship with the patient

Take ownership of all technical aspects related to the patient's care

Meet with the patient at regularly scheduled appointments

nitially assess the impact this has on patient anxiety and satisfaction

Lay the groundwork for future innovations and patient responsibilities

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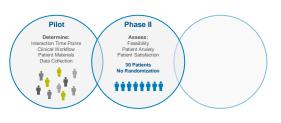
Clinical Trial UC San Diego Health Atwood / AAPM 2019 / #10 **Clinical Trial** Pilot UCSan Diego Health Atwood / AAPM 2019 / #11 **Initial Observations** \oplus Some timepoints less beneficial Wide variety of patient "types" Words should be chosen carefully Technical systems too complex Medical questions not deferred Rewarding experience Communication training necessary

Clinical Trial Pilot Determine: Interaction Time Poirtes Oriented Worders Point Collection Data Collection

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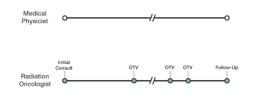
Clinical Trial



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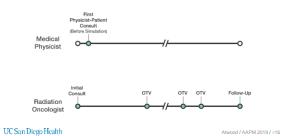
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Patient Interactions

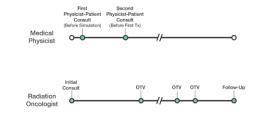


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Patient Interactions



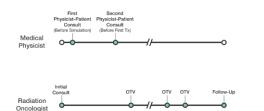
Patient Interactions



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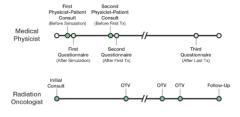
Patient Interactions



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Data Collection



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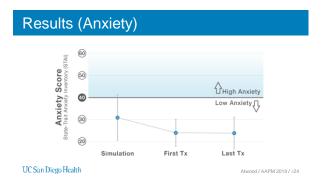
Data Collection



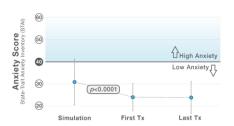
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Results (Anxiety)



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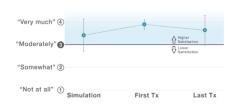
Results (Technical Satisfaction)



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Results (Technical Satisfaction)



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Results (Technical Satisfaction)



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Results (Overall Satisfaction)



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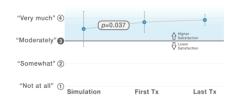
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Results (Overall Satisfaction)



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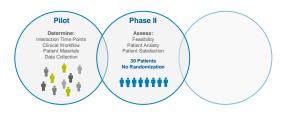
Results (Overall Satisfaction)



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Clinical Trial



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Clinical Trial



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Lay the groundwork for future innovations and patient responsibilities	Recognize changing landscape Utilize unique skillset Expand the profession Provide more value	
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Patient Communicat Physicist-Patient Interactions	tion	
Derek Brown, PhD Associate Professor		
Radiation Medicine & Applied Sciences UC San Diego Health		

RETHINKING MEDICAL PHYSICS

Where do we find training?

How can we make this training available to others?

PATIENT COMMUNICATION for **MEDICAL PHYSICISTS**

Workshop @UC San Diego Health

Learn and use prescriptive communication strategies to develop positive, productive professional relationships with patients

Didactic training

Practical exercises
 Simulated patient interactions

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Simulated Patients

Patient: Robert Adams Type: Prostate cancer Characteristics: Non-technical, nervous, reserved

Patient: Jennifer Klogmire Type: Breast cancer
Characteristics: Tech-savvy, highly educated, inquisitive

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Simulated Pa	tient Interactior	าร
Therapy Physics Patient #1	Therapy Physics Patient, #2	Imaging Physics Patient
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PATIENT
COMMUNICATION
for MEDICAL
PHYSICISTS

Workshop
@UC San Diego Health

Aug 23-24, 2019
3 free registrations
Send us <100 words by email to enter

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Effective Communication Strategies

The Good News Communication is a skill that can be taught, learned and assessed ^{2,8} Improvement requires practice and experience ^{9,10} The Four E's Engage Educate Empathize Enlist

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Effective Communication Stra	ategies	
	atogioo	-
1. Engage		
Try and find some way to connect with the patient on a per- (e.g. traffic/weather/hobbies/sports/children/etc.)	sonal level	
This is important because it sets the stage for the entire int		
Non-verbal communication skills can play a big role here 11		
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Effective Communication Str	otogico	
Effective Communication Stra	ategies	
Farana Badu Basitianina		
Engage – Body Positioning How do you position yourself in the room with respect to th	e nationt?	
Physicist Patient		
4		
	V	
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Effective Communication Stra	otogios	
- Enective Communication Str	alegies	
Parallel Non-Confrontational Position		
. Grand Horn Commontational Footborn		
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Effective Communication Strate	gies	
Information Triangle Position		
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Effective Communication Strate	gios	
Effective Communication Strate	gies	
Engaged Oppositional Position		
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Effective Communication Strate	gies	
Information Triangle Position		
A		
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Effective Communication Strategies		
Engage – Eye Contact Too much can feel Intimidating		
Too little is awkward Aim for balance – enough that the patient knows you are engaged but not so much that they feel like you are interrogating them		
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Effective Communication Strategies	S	
1 see you', '1 hear you', '1 understand you', '1 accept you' Patients want this and will give clues — if you miss the clues most patients will repeat them ¹² Language and touch can be useful tools		
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Effective Communication Strategies		
Empathize – Useful language		
$\textbf{Reflect}-\text{``It sounds like you're concerned this may mean}\ldots\text{''}$		
Normalize – "Anyone would feel scared" Self-disclose – "We never seem to stop worrying about our kids"		
Partner – "We can figure this out together" Highlight – "I'm impressed with how you've"		
againgine - in impressed with now you've		
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Empathize - Touch

Many of us will shy away from this entirely

Some of our patients will be entirely uncomfortable with this

Many of our patients will benefit tremendously from this

When? How? How do you know?

Humorus 11

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Effective Communication Strategies

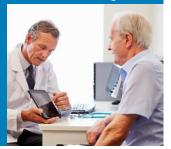
3. Educate

Critical to assess a patient's comfort with technical language and to use patient-appropriate language

Use "chance" or "more/less likely" instead of "risk"

Use "9 out of 10 people" not "90%

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Effective Communication Strategies

Educate - Speech/Language

Loud, fast speech can be effective in an academic environment, but most patients will find this off-putting

Unless you're a naturally slow speaker, speak slower than you would normally

Use a 'calm' tone – you have time and you want to know more about what the patient is concerned about

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Effective Communication Strategies				
4. Enlist				
Patients can and should play an active role in their treatment				
Most often used in combination with educate				
How does enlistment influence adherence? 14				
Confidence in ability to follow through Ability to share concerns efficacy				
Shared treatment goals				
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Effective Communication Strategies

Enlist – Use open-ended questions

"Do you feel ok about your treatment today?"
"What concerns do you have about treatment today?"

"Are you feeling ok about your CT scan today?"
"How are you feeling about your CT scan today?"

"Are you feeling good about the plan that I discussed today?"
"How are you feeling about the plan we've discussed today?"

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Effective Communication Strategies

The Four E's

Engage Educate

Empathize Enlist

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Collaborators

Todd Atwood Todd Pawlicki AJ Mundt Kevin Moore Titania Juang



Physicist-Patient Interaction

Prostate Cancer Patient Before CT Simulation

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Effective Communication Strategies

Negative Aspects

No mention of what his role is in the clinic (missed opportunity for engagement/education)

Asks if patient understands and then immediately interrupts him

Tells patient it would be a waste of his time to worry (missed opportunity for empathy)

Missed opportunity to enlist the patient when he describes back pain

Dismisses patient's questions about how this will be different than last time

Even someone who is good at communicating is still missing many cues from the patient

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Effective Communic	ation Strategies		
Positive Aspects			
Introduction is good (engagement)			
Eye contact (engagement)		-	
Explanation of CT Sim is good (Educa		-	
Great job of empathizing with patient	about back pain		
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PATIENT			
COMMUNICATION for MEDICAL			
PHYSICISTS			
	tient Interaction ent Before First Treatment		
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Effective Communic	ation Strategies		
Encouve Communic	attori Otrategies		
Negative Aspects			
Doesn't introduce himself (missed op			
Dismisses patient's concerns about wi opportunity for education)	hether she was treated last time (missed		
Missed opportunity for empathy wh			
Tells patient multiple times that they are			
Never asks the patient if anything he's enlistment)	s saying is clear (missed opportunity for		
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Effective Communication Strate	gies	
Positive Aspects		
Information Triangle (engagement)		
Eye contact (engagement)		_
Speaks slowly and clearly (education)		
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