

NRG Survey of Physics Support **Demands For Clinical Trials**

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Clinical Physicist and Trials

Efforts by physicist supporting trials are generally not 'officially' recognized

FTE requirements for clinics by industry publications do not list clinical support.

- ot explicitly mentioned in...

 (AAPM) Scope of Pinacise
 The Aht Study of Medical Physicist Work Values for Radiation Oncology Physics Services
 ASTRO report titled "Safety is No Accident (SINA)"

 ECMAP. (1997). Criteria for the staffing levels in a Medical Physics Department,



No Data on Physics Support for Trials Exists so....

The NRG decided to take a survey.

- IROC Houston provided the database of 'contact' physicists of 1,996 institutions.
- · After three weeks, 451 institutions responded



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#	Question				
1,2,3	Institution name, RTF number, name of Physicist.				
4	How many clinical trials that include radiotherapy does your institution participate in?				
5	How many patients have been enrolled in the above trials?				
6	How many dedicated clinical trial staff does your department or institutions have?				
7	How many hours per week do you spend supervising or interacting with the clinical trial stuff?				
8	Who performs the electronic data submission for each protocol patient?				
9	On average, how many hours per week do you get involved in the simulation process for protocol patients?				
10	On average, how many hours per week do you spend reviewing treatment plans for protocol patients?				
11	On average, how many hours per week do you spend maintaining your DICOM server?				
12	Are you credentialed in the Continuing Research Education Credit Program (CREC)?				
13	If yes, how many hours per year are required of you to become credentialed and maintain the CREC?				
14	How many hours per year do you or your physics group spend for Protocol credentialing process?				
15	On average, how many hours per week do you spend reading clinical trial protocols and surnording dosimetrists/clinicians/theranists?				
	On average, how many hours per month do you spend attending clinical research				



Number of Radiotherapy Clinical Trials per Clinic

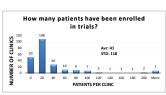
Average of 9 trials per clinic





Number of Patients in Trials 41 / clinic

But...notice the phrasing 'have been enrolled' \dots





Who performs the electronic dat	ć
submission for each protocol	
patient?	

Dosimetrist 24.2%
 Clinical study staff
 Physicist 52.6%
 Other 6.4%



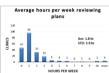
Hours per *year* Protocol credentialing process

The average respondent spends 32 hours per year maintaining personal institution credentials for protocols

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Reviewing Plans 1.8 hr. per week

Extra protocol demands additional plan review to meet criteria



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Read	ing	& Suppo	rt
21	hr	ner week	

While widely understood, rarely acknowledged





Monthly Meetings 1.2 hr. per week

Physicists are taken out of the clinic routinely, lost time.



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Supervising Clinical Trial Staff 2.4 hr. per week





Mainta	inin	g	Server
0.6	hr. /	W	eek

....Also known as IT support



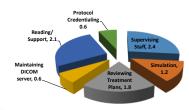
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Simulations 1.2 hr. per week



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Weekly Summary 9 hr. / 10 protocols



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	A First Attempt	
	This is the first effort to put a number on the physicist contributions to clinical trials.	
	We present the results of a survey of IROC database only.	
	Our results clearly show the need for a serious look at this obviously sizeable demand on our time.	
	These trials are important enough that they should not be taken for granted by resource	
NRG	managers.	
	Acknowledgements	
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NRG ONCOLOGY**		