

The MD Anderson Dosimetry Laboratory in collaboration with the IROC Houston QA Center, and the US Oncology Head Office are pleased to offer special peer-review services to US Oncology institutions. Information about this program, the registration form, and the phantom request form are available under the US Oncology button on the IROC Houston home page and the MD Anderson Dosimetry Lab home page:

<http://rpc.mdanderson.org/RPC/home.htm>

<http://rpc.mdanderson.org/mdadl/home.htm>

Below please find important details concerning this offer:

Overview of the peer review program:

Institutions can enroll in one of three packages; the packages are **per machine** – an institution with 2 machines would need to purchase 2 packages. The package period is for **three** years.

Each package includes annual Optically Stimulated Luminescence Dosimeter (OSLD) monitoring, a virtual visit (one time), and phantom(s) (one time) as described below:

- 1) OSLD conducted annually to verify machine output: all photon and all electron beams (including electron energy check) the first year, all photon beams and 3 electron beams (including electron energy check) for subsequent years.
- 2) A virtual visit conducted once during the three year period to verify treatment planning system beam modeling accuracy, calibration output parameters, and the routine machine quality assurance (QA) program.
- 3) Phantom(s), irradiated once during the three year period, to verify end-to-end radiotherapy delivery (phantom(s) included depend on package selected).

There are three available packages. The difference between the packages is the range of phantoms included based on any advanced techniques used by the clinics.

1. Basic (OSLD, virtual visit, one H&N IMRT phantom)
2. SBRT (OSLD, virtual visit, one H&N IMRT phantom, one SBRT moving lung phantom)
3. SBRT/SRS (OSLD, virtual visit, one H&N IMRT phantom, one SBRT moving lung phantom, one SRS head phantom)

Additional phantoms may be added for additional delivery modalities (e.g., VMAT vs. sMLC), additional beams (e.g., FFF beams), or new specialty procedures (e.g., new SBRT capability) at the a la carte price below.

Any result (phantom or OSLD output check) that is outside of criteria will require a repeat of that test. The cost of this repeat is not included in the package price and will be charged at the a la carte price.

Packages (per year)		Supplemental options "a la carte"	
Basic Package	\$ 1,667.00	H&N phantom	\$ 1,300.00
SBRT Package	\$ 2,500.00	SBRT lung phantom	\$ 2,500.00
SBRT/SRS Package	\$ 2,833.00	SRS head phantom	\$ 1,000.00
Add-on packages (one time cost)		OSLD	\$ 180 first beam, \$ 100 per additional
New linac	\$ 3,550.00	HDR output check	\$135.00/ year
New TPS (per linac)	\$ 3,000.00	Small field output check	TBA

Additional questions can be brought to Jeff Limmer, MS (Jeff.Limmer@USONCOLOGY.COM, 281-863-4914) or Stephen Kry, PhD (sfkry@mdanderson.org, 713-745-8989)

Disclaimer:

All recommendations made or discrepancies identified through the MD Anderson verification services are strictly of a review nature. Changes by the institution should be made only after the institution has determined that changes are warranted. Changes should not be made on the basis of IROC Houston recommendations alone. Such changes should be deliberate, with the full knowledge of all individuals concerned.

Process for a US Oncology clinic to participate in this peer-review program:

- 1) Register each linac using the “US Oncology Peer Review Service Registration Form”. This form can be found on the IROC Houston home page under the US Oncology button or at:

http://rpc.mdanderson.org/RPC/forms2/US_Oncology_Registration_Form/registration_user.aspx

- 2) You may be prompted to complete an additional facility questionnaire form if we do not have existing data on your facility.
- 3) Complete the phantom request form (for each phantom in your package) on the IROC Houston home page under the US Oncology button or at the URL below to provide the specifics of your irradiation details:

http://rpc.mdanderson.org/RPC/Forms2/US_Oncology_Phantom.aspx

- 4) Email Trang Nguyen (trangnguyen@mdanderson.org) to schedule the phantom. Please note that there are a finite number of phantoms and phantoms are intended to be irradiated over the course of the three year contract period. Prioritization will be based on first-come first-served as well as pressing clinical situations such as implementation of a new modality or a new linac. SRS and SBRT phantoms will also be sent out with high priority. Trang will work with you to find a date to irradiate the phantom that works for you. **Please note you must return the phantom within 2 weeks of receiving it** - if you need to reschedule we are happy to accommodate, please just let us know before the phantom is shipped.

FAQs:

I have two machines in my clinic, will both receive service?

This arrangement and the packages are per machine. Each machine should be separately registered for the package relevant for that machine.

Am I required to be a part of this arrangement?

No, this is a strictly optional program. However, the US Oncology Lead Medical Physicists and IROC Houston believe this offers an excellent opportunity to verify if not improve the quality of your radiotherapy program, including the offering of unique services.

What happens if I fail a phantom or output-check irradiation?

To minimize the package price, the package cost does not include the cost of repeating any irradiations that are outside of criteria. Any such result will necessitate the sending of a repeat phantom/OSLD output check, and you will have to pay for this at the a la carte price. Please understand that the MD Anderson Dosimetry Lab is not a for-profit entity; we do not have profit margins and this cost will be charged for any repeat unless it is the MD Anderson Dosimetry Lab's error. However, unlike other customers, prices for these services are guaranteed to not increase over the course of the three year contract for US Oncology clinics that register for this program.

What if I get a replacement linac or new TPS?

Appropriate services can be transferred to a replacement linac or a new TPS. Additional/repeat services may be appropriate (e.g., new phantom and new Virtual Visit); these additional services are at an additional cost. Please enquire for details.

What is the HDR phantom option

There is a new phantom (not currently available to the general public) that will be available starting in the second year of the contract to evaluate the dose delivery of an HDR plan. This phantom can be added during registration.

I am an NCI member receiving IROC Houston monitoring, how does this service relate to me?

If you are already an NCI member monitored by IROC Houston, you can still register for this program. This program offers services above and beyond routine monitoring. Most uniquely, the Virtual Visit is not offered through normal IROC Houston channels and is only available through this program. Relevant phantoms are also included without requiring that you participate in specific clinical trials, and with dedicated phantoms available solely for US Oncology members.

Importantly, you will not be charged the annual IROC Houston institutional fee (as part of NCI clinical trial participation) during this three year period for the machines that participate in this program. You will only be charged for the US Oncology related services. You will still be considered compliant with NCI trial monitoring. At the end of the service period you will automatically revert back to receiving your historical NCI services at the institutional fee rate.