



**UPMC** | University of Pittsburgh  
Medical Center

*UPMC Presbyterian Shadyside*

November 11, 2005

NMSB1

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RECEIVED

UPMC Presbyterian  
200 Lothrop Street  
Pittsburgh, PA 15213

U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

UPMC Shadyside  
5230 Centre Avenue  
Pittsburgh, PA 15232

RE: License No. 37-02523-01

03003021

To Whom It May Concern:

Please consider this notification as required under 10CFR 35.14 for the addition of an Authorized user to License No 37-02523-01.


**Item 12 B, Authorized Users**

Please add:

**1. Daniel A Pryma, MD:** Dr. Pryma has fulfilled the qualifications listed in 10CFR35.290 and 35.390. enclosed. He has been authorized by Administration for uses under 10CFR35.100, 200 and 300 and additionally 10CFR35.1000 (Y90 TheraSphere) as indicated.

Should you have any questions regarding this request, please contact me at (412) 623-1052. Thank You.

Sincerely,

  
Ronald Scala, MS  
Radiation Safety Officer  
UPMC Presbyterian Shadyside Hospital  
License No. 37-02523-01

Enclosures

Previous authorization on University of Pittsburgh License Nos. 37-00245-02 and PA-190  
Preceptor Training Documentation  
Administration Authorization

cc: RSC file

138101

UNIVERSITY OF PITTSBURGH MATERIALS VOL.

## Scala, Ronald

---

**From:** Terwilliger, James  
**Sent:** Monday, November 14, 2005 8:11 PM  
**To:** Scala, Ronald  
**Subject:** RE: Addition of MD to SHY license

OK, proceed. Thanks.

-----Original Message-----

From: Scala, Ronald  
Sent: Monday, November 14, 2005 8:08 PM  
To: Terwilliger, James  
Subject: RE: Addition of MD to SHY license

You need only OK his authorization. The email stream below will be evidence that the documentation was received and reviewed. Let me know and I will prepare the remaining paperwork that goes to NRC.

thanks,

Ron

-----Original Message-----

From: Terwilliger, James  
Sent: Mon 11/14/2005 7:46 PM  
To: Scala, Ronald  
Cc:  
Subject: RE: Addition of MD to SHY license

Looking at the documentation you sent over, is there actually anything I need to sign or do you just need my OK to add him to the license? If the latter, I am fine with adding him.

-----Original Message-----

From: Terwilliger, James  
Sent: Monday, November 14, 2005 5:00 PM  
To: Scala, Ronald  
Subject: RE: Addition of MD to SHY license

Yes. I will send the signed copy back to you.

-----Original Message-----

From: Scala, Ronald  
Sent: Monday, November 14, 2005 4:40 PM  
To: Terwilliger, James  
Subject: RE: Addition of MD to SHY license

Dear Mr. Terwilliger,

Dr. Joyce called today for an update on Dr. Pryma. Have you decided whether to authorize him at SHY?

Ron  
412-496-9225

-----Original Message-----

From: Terwilliger, James  
Sent: Thu 11/10/2005 6:50 PM  
To: Scala, Ronald  
Cc:  
Subject: RE: Addition of MD to SHY license  
My fax number is 412-647-5551

What is his specialty?

James G. Terwilliger, MPH  
Vice President, Operations  
UPMC Presbyterian - Shadyside  
412-647-4150  
terwilligerjg@upmc.edu

---

From: Scala, Ronald  
Sent: Thursday, November 10, 2005 3:43 PM  
To: Terwilliger, James  
Subject: Addition of MD to SHY license

Dear Mr. Terwilliger,

I have been asked to add Dr. Daniel Pryma to the NRC license at Shadyside as an Authorized User for Nuclear uses 10CFR 35.200, 300. In accordance with 10CFR35, he may be added if administration OK's it and if he has qualifications meeting 10CFR35.920 and 930. The latter qualification, namely being listed for these uses on another NRC license, has been verified. Dr Pryma is listed on Presby's (University) license. Hence, SHY can add him without an official amendment request as long as you review the verification documentation and say OK. Please send to me a FAX no. so I can forward the PUH documentation. If you agree to add Dr. Pryma, an email response is sufficient.

I will then send to NRC the documentation and your email.

Thanks

Ron  
x31052

## Scala, Ronald

---

**From:** Scala, Ronald  
**Sent:** Friday, November 11, 2005 12:07 PM  
**To:** Terwilliger, James  
**Subject:** RE: Addition of MD to SHY license

I received add'l info on Dr Pryma- faxing it over to you

It is his authorization on the Univ Pittsburgh license for 10cfr 35. 100, 200 300 and 1000(Y-90)

Ron

-----Original Message-----

**From:** Terwilliger, James  
**Sent:** Thursday, November 10, 2005 6:50 PM  
**To:** Scala, Ronald  
**Subject:** RE: Addition of MD to SHY license

My fax number is 412-647-5551

What is his specialty?

*James G. Terwilliger, MPH  
Vice President, Operations  
UPMC Presbyterian - Shadyside  
412-647-4150  
terwilligerjg@upmc.edu*

---

**From:** Scala, Ronald  
**Sent:** Thursday, November 10, 2005 3:43 PM  
**To:** Terwilliger, James  
**Subject:** Addition of MD to SHY license

Dear Mr. Terwilliger,

I have been asked to add Dr. Daniel Pryma to the NRC license at Shadyside as an Authorized User for Nuclear uses 10CFR 35.200, 300. In accordance with 10CFR35, he may be added if administration OK's it and if he has qualifications meeting 10CFR35.920 and 930. The latter qualification, namely being listed for these uses on another NRC license, has been verified. Dr Pryma is listed on Presby's (University) license. Hence, SHY can add him without an official amendment request as long as you review the verification documentation and say OK. Please send to me a FAX no. so I can forward the PUH documentation. If you agree to add Dr. Pryma, an email response is sufficient.

I will then send to NRC the documentation and your email.

Thanks

Ron  
x31052

# FAX Transmission

FROM: Ronald Scala, MS

(412) 623-1052 phone

(412) 623-6310 FAX

Date: \_\_\_\_\_

TO: \_\_\_\_\_

*JIM Terwilliger*

FAX No. \_\_\_\_\_

Number of Pages (including cover) \_\_\_\_\_

*7*

*4*

COMMENTS:

*Dr Pryma*

**UNIVERSITY OF PITTSBURGH**  
**AUTHORIZED USER CERTIFICATION FOR HUMAN USES OF RADIOACTIVE**  
**MATERIAL AND RADIATION SOURCES**  
**NRC License No. 37-00245-02 and PA License No. PA-190**

☒ New Application

☐ Renewal

**1. PHYSICIAN IDENTIFICATION**

Name: Daniel A. Pryma Degree: MD

Department: Radiology Title: Assistant Professor

Office Location: Room \_\_\_\_\_ Building: \_\_\_\_\_

Office Phone: \_\_\_\_\_ E-mail: prymad@upmc.edu

**2. TRAINING AND EXPERIENCE WITH RADIONUCLIDES AND RADIATION SOURCES**

Submit the following information in support of the qualification requirements for the human use of radioactive material and radiation sources **(Required for new applicants only)**:

- A. Current copy of Curriculum Vitae
- B. Copy of applicable Medical Board Certification(s) **or**,  
Preceptor Statement of physician's classroom, laboratory, and clinical training and experience with radioactive material, signed by the supervising Authorized User (NRC Form 313A)

List recent clinical experience in the use of radionuclides and/or radiation sources for diagnostic and therapeutic procedures **(Required for all applicants)**:

Type of Use	Location	Dates
See attached preceptor attestation		

### 3. AUTHORIZED USES

List the types of medical use for which specific authorization is requested:

- A. Radioactive material for diagnostic human use involving uptake, dilution, and excretion studies (10 CFR 35.100)
- B. Radioactive material for diagnostic human use involving imaging and localization studies (10 CFR 35.200)
- C. Radioactive material for diagnostic and therapeutic use in humans for which a written directive is required (10 CFR 35.300)
- D. Y-90 TheraSpheres, Y-90 SIR-Spheres (10 CFR 35.1000)
- E. \_\_\_\_\_
- F. \_\_\_\_\_

### 4. CONDITIONS ON THE USE OF RADIONUCLIDES AND RADIATION SOURCES

- A. This authorization is limited to the use of radionuclides and radiation sources approved under the UPMC Nuclear Medicine Joint Authorization.
- B. All policies, procedures, and conditions contained in the currently approved UPMC Nuclear Medicine Joint Authorization application must be followed.
- C. Physician must complete internal training and instruction requirements for the use of Y-90 TheraSpheres and Y-90 SIR-Spheres.

## 5. STATEMENT OF AUTHORIZED USER RESPONSIBILITY

As an Authorized User of radioactive material under the University of Pittsburgh's License, I will abide by all regulations, policies and procedures of the U.S. Nuclear Regulatory Commission, the Pennsylvania Department of Environmental Protection - Bureau of Radiation Protection and the University Radiation Safety Committee.

Applicant's Signature: Daniel D. Lyon Date: 9/7/05

## 6. REVIEW AND APPROVAL

Review and approval by the University's Radiation Safety Executive Committee:

	Signature	Date
Chairperson:	<u>Ueli Wald</u>	<u>8 Sep 2005</u>
Vice Chairperson:	<u>Dennis Burson</u>	<u>09/08/05</u>
Chairperson, Subcommittee on Human Use of Radioisotopes and Radioactive Drug Research:	<u>Dennis Burson</u>	<u>09/08/05</u>
Radiation Safety Officer:	<u>J. E. ...</u>	<u>9/7/05</u>
Health Physicist	<u>Paul H. ...</u>	<u>9-8-05</u>

This application, signed by the members of the Radiation Safety Committee and Human Use Subcommittee is your authorization to possess and use radioactive materials and radiation sources as indicated in the items above.

Date of Approval 9/8/05

Date of Expiration 9/30/07

NRC FORM 313A (4-2005)	U.S. NUCLEAR REGULATORY COMMISSION
<b>MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)</b>	
<b>10. SUPERVISING INDIVIDUAL -- IDENTIFICATION AND QUALIFICATIONS</b>	
The training and experience indicated above was obtained under the supervision of (if more than one supervising individual is needed to meet requirements in 10 CFR Part 35, provide the following information for each) :	
A. Name of Supervisor  H. William Strauss, M.D.	B. Supervisor is:  <input checked="" type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Medical Physicist <input type="checkbox"/> Radiation Safety Officer <input type="checkbox"/> Authorized Nuclear Pharmacist
C. Supervisor meets requirements of Part 35, Section(s) <u>35.190, 290, 390, 392, 394, 396, and 590.</u> for medical uses in Part 35, Section(s) <u>100, 200, 300 (including 392, 394, and 398), and 500</u>	
D. Address  Memorial Sloan-Kettering Cancer Center 1275 York Ave New York, NY 10021	E. Materials License Number  <u>75-2968-01</u>
<b>PART II -- PRECEPTOR ATTESTATION</b>	
<b>Note:</b> This part must be completed by the individual's preceptor. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each. This part is not required to meet training requirements in 35.590 or Part 35, Subpart J (except 35.980).	
I attest the individual named in Item 1:	
11a. <input checked="" type="checkbox"/> has satisfactorily completed the requirements in Part 35, Section(s) and Paragraph(s) <u>190(c)(1), 290(c)(1), 390(b), 392(c)(1), 394(c)(1), 396(d)(1), 398(c)(1), 398(d)(1), 398(e)(1), 398(f)(1), 398(g)(1), 398(h)(1), 398(i)(1), 398(j)(1), 398(k)(1), 398(l)(1), 398(m)(1), 398(n)(1), 398(o)(1), 398(p)(1), 398(q)(1), 398(r)(1), 398(s)(1), 398(t)(1), 398(u)(1), 398(v)(1), 398(w)(1), 398(x)(1), 398(y)(1), 398(z)(1), 398(aa)(1), 398(ab)(1), 398(ac)(1), 398(ad)(1), 398(ae)(1), 398(af)(1), 398(ag)(1), 398(ah)(1), 398(ai)(1), 398(aj)(1), 398(ak)(1), 398(al)(1), 398(am)(1), 398(an)(1), 398(ao)(1), 398(ap)(1), 398(aq)(1), 398(ar)(1), 398(as)(1), 398(at)(1), 398(au)(1), 398(av)(1), 398(aw)(1), 398(ax)(1), 398(ay)(1), 398(az)(1), 398(ba)(1), 398(bb)(1), 398(bc)(1), 398 bd)(1), 398(be)(1), 398(bf)(1), 398(bg)(1), 398(bh)(1), 398(bi)(1), 398(bj)(1), 398(bk)(1), 398(bl)(1), 398(bm)(1), 398(bn)(1), 398(bo)(1), 398(bp)(1), 398(bq)(1), 398(br)(1), 398(bs)(1), 398(bt)(1), 398(bu)(1), 398(bv)(1), 398(bw)(1), 398(bx)(1), 398(by)(1), 398(bz)(1), 398(ca)(1), 398(cb)(1), 398(cc)(1), 398(cd)(1), 398 ce)(1), 398(cf)(1), 398 cg)(1), 398(ch)(1), 398(ci)(1), 398(cj)(1), 398 ck)(1), 398(cl)(1), 398(cm)(1), 398(cn)(1), 398(co)(1), 398(cp)(1), 398 cq)(1), 398(cr)(1), 398(cs)(1), 398(ct)(1), 398(ct)(1), 398(cu)(1), 398(cv)(1), 398 cw)(1), 398(cx)(1), 398(cy)(1), 398 cz)(1), 398(da)(1), 398(db)(1), 398(dc)(1), 398(dd)(1), 398(de)(1), 398(df)(1), 398 dg)(1), 398(dh)(1), 398(di)(1), 398(dj)(1), 398(dk)(1), 398(dl)(1), 398(dm)(1), 398(dn)(1), 398(do)(1), 398(dp)(1), 398 dq)(1), 398(dr)(1), 398(ds)(1), 398(dt)(1), 398 du)(1), 398(dv)(1), 398(dw)(1), 398(dx)(1), 398(dy)(1), 398 dz)(1), 398(ea)(1), 398 eb)(1), 398(ec)(1), 398(ed)(1), 398 ee)(1), 398(ef)(1), 398 eg)(1), 398(fh)(1), 398(fi)(1), 398(fj)(1), 398(fk)(1), 398 fl)(1), 398(fm)(1), 398(fn)(1), 398 fo)(1), 398(fp)(1), 398 fq)(1), 398(fr)(1), 398(fs)(1), 398(ft)(1), 398 ft)(1), 398(fv)(1), 398 fw)(1), 398 fx)(1), 398(fy)(1), 398 fz)(1), 398 ga)(1), 398 gb)(1), 398(gc)(1), 398(gd)(1), 398 ge)(1), 398(gf)(1), 398 gh)(1), 398 gi)(1), 398 gj)(1), 398 gk)(1), 398 gl)(1), 398 gm)(1), 398 gn)(1), 398 go)(1), 398(gp)(1), 398 gq)(1), 398 gr)(1), 398 gs)(1), 398(gt)(1), 398 gt)(1), 398(gv)(1), 398 gw)(1), 398 gx)(1), 398 gy)(1), 398 gz)(1), 398 ha)(1), 398 hb)(1), 398(hc)(1), 398(hd)(1), 398 he)(1), 398(hf)(1), 398 hh)(1), 398 hi)(1), 398 hj)(1), 398 hk)(1), 398 hl)(1), 398 hm)(1), 398 hn)(1), 398 ho)(1), 398 hp)(1), 398 hq)(1), 398 hr)(1), 398 hs)(1), 398(ht)(1), 398 ht)(1), 398(hv)(1), 398 hw)(1), 398 hx)(1), 398 hy)(1), 398 hz)(1), 398 ia)(1), 398 ib)(1), 398(ic)(1), 398(id)(1), 398 ie)(1), 398(if)(1), 398 ih)(1), 398 ii)(1), 398 ij)(1), 398 ik)(1), 398 il)(1), 398 im)(1), 398 in)(1), 398 io)(1), 398(ip)(1), 398 iq)(1), 398 ir)(1), 398 is)(1), 398(it)(1), 398 it)(1), 398(iv)(1), 398 iw)(1), 398 ix)(1), 398 iy)(1), 398 iz)(1), 398 ja)(1), 398 jb)(1), 398(jc)(1), 398(jd)(1), 398 je)(1), 398(jf)(1), 398 jg)(1), 398(jh)(1), 398 ji)(1), 398 jj)(1), 398 jk)(1), 398 jl)(1), 398 jm)(1), 398 jn)(1), 398 jo)(1), 398 jp)(1), 398 jq)(1), 398 jr)(1), 398 js)(1), 398(jt)(1), 398 jt)(1), 398(jv)(1), 398 jw)(1), 398 jx)(1), 398 jy)(1), 398 jz)(1), 398 ka)(1), 398 kb)(1), 398(kc)(1), 398(kd)(1), 398 ke)(1), 398(kf)(1), 398 kh)(1), 398 ki)(1), 398 kj)(1), 398 kk)(1), 398 kl)(1), 398 km)(1), 398 kn)(1), 398 ko)(1), 398 kp)(1), 398 kq)(1), 398 kr)(1), 398 ks)(1), 398(kt)(1), 398 kt)(1), 398(kv)(1), 398 kw)(1), 398 kx)(1), 398 ky)(1), 398 kz)(1), 398 la)(1), 398 lb)(1), 398(lc)(1), 398(ld)(1), 398 le)(1), 398(lf)(1), 398 lh)(1), 398 li)(1), 398 lj)(1), 398 lk)(1), 398 ll)(1), 398 lm)(1), 398 ln)(1), 398 lo)(1), 398(lp)(1), 398 lq)(1), 398 lr)(1), 398 ls)(1), 398 lt)(1), 398 lt)(1), 398(lv)(1), 398 lw)(1), 398 lx)(1), 398 ly)(1), 398 lz)(1), 398 ma)(1), 398 mb)(1), 398(mc)(1), 398(md)(1), 398 me)(1), 398 mf)(1), 398 mh)(1), 398 mi)(1), 398 mj)(1), 398 mk)(1), 398 ml)(1), 398 mn)(1), 398 mo)(1), 398(mp)(1), 398 mq)(1), 398 mr)(1), 398 ms)(1), 398(mt)(1), 398 mt)(1), 398(mv)(1), 398 mw)(1), 398 mx)(1), 398 my)(1), 398 mz)(1), 398 na)(1), 398 nb)(1), 398(nc)(1), 398(nd)(1), 398 ne)(1), 398(nf)(1), 398 nh)(1), 398 ni)(1), 398 nj)(1), 398 nk)(1), 398 nl)(1), 398 nm)(1), 398 nn)(1), 398 no)(1), 398(np)(1), 398 nq)(1), 398 nr)(1), 398 ns)(1), 398(nt)(1), 398 nt)(1), 398(nv)(1), 398 nw)(1), 398 nx)(1), 398 ny)(1), 398 nz)(1), 398 oa)(1), 398 ob)(1), 398(ob)(1), 398(od)(1), 398 oe)(1), 398(of)(1), 398 oh)(1), 398 oi)(1), 398 oj)(1), 398 ok)(1), 398 ol)(1), 398 om)(1), 398 on)(1), 398 oo)(1), 398(op)(1), 398 oq)(1), 398 or)(1), 398 os)(1), 398 ot)(1), 398 ot)(1), 398(ov)(1), 398 ow)(1), 398 ox)(1), 398 oy)(1), 398 oz)(1), 398 pa)(1), 398 pb)(1), 398(pb)(1), 398(pd)(1), 398 pe)(1), 398(pf)(1), 398 ph)(1), 398 pi)(1), 398 pj)(1), 398 pk)(1), 398 pl)(1), 398 pm)(1), 398 pn)(1), 398 po)(1), 398(pp)(1), 398 pq)(1), 398 pr)(1), 398 ps)(1), 398(pt)(1), 398 pt)(1), 398(pv)(1), 398 pw)(1), </u>	

NRC FORM 313A  
(4-2006)

U.S. NUCLEAR REGULATORY COMMISSION

**MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)****6c. TRAINING FOR SECTIONS 35.50(e), 35.51(c), 35.590(c), or 35.690(c)**

Training Element	Type of Training *	Location and Dates
Sealed sources for diagnosis (transmission scan using flood sources)	Didactic Supervised	11/12/04, 11/19/04, 4/8/05, & 4/15/05 7/2003-8/2005

\* Types of training may include supervised (complete item 10 for 35.50(e), 35.51(c), and 35.690(c)), didactic, or vendor training.

**7. FORMAL TRAINING****Physicians (for uses under 35.400 and 35.600) and Medical Physicists**

Degree, Area of Study or Residency Program	Name of Program and Location with Corresponding Materials License Number	Dates	Name of Organization that Approved the Program (e.g., Accreditation Council for Graduate Medical Education) and the Applicable Regulation (e.g., 10 CFR 35.490)
NA	NA	NA	NA

**8. RADIATION SAFETY OFFICER (RSO) -- ONE-YEAR FULL-TIME EXPERIENCE**

- ☐ YES Completed 1 year of full-time radiation safety experience (in areas identified in item 8a) under supervision.
- ☒ N/A of \_\_\_\_\_ the RSO for License No \_\_\_\_\_

**9. MEDICAL PHYSICIST -- ONE-YEAR FULL-TIME TRAINING/WORK EXPERIENCE**

- ☐ YES Completed 1 year of full-time training (for areas identified in item 6a) in therapeutic radiological physics (35.961) or medical physics (35.51) under the supervision of \_\_\_\_\_
- ☒ N/A who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51),

**and**

- ☐ YES Completed 1 year of full-time work experience (at location providing radiation therapy services described and for topics identified in item 6a) for (specify use or device) \_\_\_\_\_
- ☒ N/A under the supervision of \_\_\_\_\_ who is a medical physicist (35.961) or meets requirements for Authorized Medical Physicists (35.51) (specify use or device) \_\_\_\_\_

NRC FORM 313A  
(4-2005)

U.S. NUCLEAR REGULATORY COMMISSION

**MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)****6a. WORK OR PRACTICAL EXPERIENCE WITH RADIATION**

Description of Experience	Name of Supervising Individual(s)	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
Laboratory research handling mCi liquid sources of radioactive material.	Steven M. Larson M.D. P. Zanzonico, PhD P. Smith-Jones PhD	MSKCC 74-2968-02 (Broad Scope Non Human Use)	7/2003-8/2005
Animal research injecting mCi liquid sources of radioactive material and subsequent imaging of animals.	Steven M. Larson M.D. P. Zanzonico, PhD P. Smith-Jones PhD	MSKCC 74-2968-02 (Broad Scope Non Human Use)	7/2003-8/2005
Clinical administration of unsealed radioactive materials involving uptake, dilution, and excretion studies, written directive not required.	Steven M. Larson M.D. H. William Strauss, M.D. Chaitanya R. Divgi, M.D.	MSKCC 75-2968-01 (Broad Scope Human Use)	7/2003-8/2005
Clinical administration of unsealed radioactive materials involving imaging and localization studies, written directive not required.	Steven M. Larson M.D. H. William Strauss, M.D. Chaitanya R. Divgi, M.D.	MSKCC 75-2968-01 (Broad Scope Human Use)	7/2003-8/2005
Clinical administration of unsealed radioactive material, written directive required.	Steven M. Larson M.D. H. William Strauss, M.D. Chaitanya R. Divgi, M.D.	MSKCC 75-2968-01 (Broad Scope Human Use)	7/2003-8/2005
Clinical use of sealed radioactive materials for diagnosis.	Steven M. Larson M.D. H. William Strauss, M.D. Chaitanya R. Divgi, M.D.	MSKCC 75-2968-01 (Broad Scope Human Use)	7/2003-8/2005
Clinical parenteral administration of unsealed radioactive materials for therapy and diagnosis.	Steven M. Larson M.D. H. William Strauss, M.D. Chaitanya R. Divgi, M.D.	MSKCC 75-2968-01 (Broad Scope Human Use)	7/2003-8/2005

**6b. SUPERVISED CLINICAL CASE EXPERIENCE (describe experience elements in 6a)**

Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding Materials License Number	Dates and/or Clock Hours of Experience
Tc99m	Diagnostic imaging	~3500	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
In111	Diagnostic imaging	~50	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
I131	Imaging/therapy	~150	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
Sm153	Imaging/therapy	~10	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
Tl201/Ga67*	Diagnostic imaging	~350	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
Y90	Therapy	~10	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
F18*	Imaging	~800	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005
I123/I124*	Imaging	~100	Steven M. Larson M.D.	MSKCC 75-2968-01	7/2003-8/2005

\* Accelerator produce, included for complete description of experience

NRC FORM 313A (4-2005)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2005	
<b>MEDICAL USE TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION</b>			
<b>PART I -- TRAINING AND EXPERIENCE</b>			
<b>Note:</b> Descriptions of training and experience must contain sufficient detail to match the training and experience criteria in the applicable regulation (10 CFR Part 35)			
1. Name of Individual, Proposed Authorization (e.g., Radiation Safety Officer), and Applicable Training Requirements (e.g., 10 CFR 35.50)  Daniel Pryma, Authorized User, 35.190, 290, 390, 392, 394, 396, and 590.			
2. For Physicians, Podiatrists, Dentists, Pharmacists -- State or Territory Where Licensed  State of New York and Commonwealth of Pennsylvania			
<b>3. CERTIFICATION</b>			
a. Provide a copy of the board certification. <i>(Stop here if applying under 10 CFR Part 35, Subpart J or 35.590(a); continue if applying under other subparts.)</i> b. Provide documentation in appropriate items 4 through 10 of training or clinical case work required by 35.50(e); 35.51(c); 35.290(c)(1)(ii)(G) for AU seeking 35.200 authorization; 35.390(b)(1)(ii)(G); 35.396(d)(1) and 35.396(d)(2); 35.590(c); or 35.690(c). c. Provide completed Part II Preceptor Attestation, Items 11a through 11d.  Stop here after completing items 3a, 3b, and 3c when using board certification to meet 10 CFR Part 35 training and experience requirements.			
<b>4. INDIVIDUALS IDENTIFIED ON A LICENSE OR PERMIT AS RADIATION SAFETY OFFICERS (RSO), AUTHORIZED USERS (AU), AUTHORIZED MEDICAL PHYSICISTS (AMP), OR AUTHORIZED NUCLEAR PHARMACISTS (ANP) SEEKING ADDITIONAL AUTHORIZATIONS</b>			
a. Provide a copy of the license or broadscope permit listing the current authorization <b>and</b> (b) or (c) b. Complete items 6c (and 10 when training is provided by an RSO, AMP, ANP, or AU) and preceptor items 11b through 11d to meet requirements for: RSO in 35.50(c)(2) or 35.50(e); or AU in 35.290(c)(1)(ii)(G) or 35.390(b)(1)(ii)(G) or 35.590(c) or 35.690(c); or AMP under 35.51(c). c. Complete items 5, 6a, 6b, 10, and Preceptor items 11a through 11d to meet AU requirements in 35.396(a).			
<b>5. DIDACTIC OR CLASSROOM AND LABORATORY TRAINING (optional for Medical Physicists)</b>			
Description of Training	Location	Clock Hours	Dates of Training
Radiation Physics and Instrumentation	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	40	10/29/04, 11/4/04, 11/5/04, 11/12/04, 11/19/04, 4/22/05, 4/29/05, & 5/6/05
Radiation Protection	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	25	9/12/03, 7/4/04, 9/17/04, 10/1/04, 2/18/05, 2/25/05, 3/4/05, & 3/11/05
Mathematics Pertaining to the Use and Measurement of Radioactivity	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	20	10/1/04, 11/4/04, 11/12/04, 1/7/05
Radiation Biology	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	60	10/22/04, 1/14/05, 1/21/05, 4/8/05, & 4/15/05
Chemistry of Byproduct Material for Medical Use	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	120	10/8/04, 12/3/04, 12/10/04, 12/17/04, 2/4/05, & 2/11/05
OTHER Radiopharmacy (Overview QC), Cyclotron production	Memorial Sloan-Kettering Cancer Center & New York-Presbyterian Hospital; New York, NY	12	9/24/04, 10/15/04, 12/17/04, & 1/7/05

Commonwealth of Pennsylvania Department of State  
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## Medical Physician and Surgeon



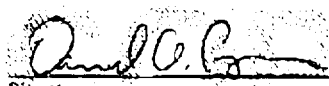
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**Daniel Alexander Pryma, M.D.**

Mobile: [REDACTED]

e-mail: [REDACTED]

**Academic Training**

- Nuclear Medicine Research Fellowship, Memorial Sloan-Kettering Cancer Center, New York, New York, July 2005 through August, 2005.
- Nuclear Medicine Residency, Memorial Sloan-Kettering Cancer Center, New York, New York, July, 2003 to June, 2005. Chief Resident May, 2004 to May, 2005.
- Internal Medicine Internship, Loyola University Medical Center, Maywood, Illinois, June, 2002 to June, 2003.
- M.D., Loyola University Chicago Stritch School of Medicine, Maywood, Illinois, June, 2002.
- B.S. with Distinction in Biology, Harvey Mudd College, Claremont, California, May, 1998, GPA 3.5/4
- Semester abroad at University College Cork, Cork, Ireland, January, 1997 to June, 1997.

**Research Experience***Loyola University Chicago Stritch School of Medicine, Maywood, Illinois*

- 1999 to 2001. Surgical Honors Society researcher analyzing outcomes of laparoscopic surgical techniques.
- Summer, 1999. Summer researcher studying the effects of  $\beta$ -fibroblast growth factor on developing bone.

*Argonne National Laboratory, Lemont, Illinois*

- Summer, 1996. Intern helping to isolate and crystallize bacterial ribosomes.

**Publications**

- Pryma DA, Ravizzini G, Amar D, Richards VL, Patel JB, Strauss HW. Cardiovascular risk assessment in cancer patients undergoing major surgery. *J Nuc Car* 2005; 12(2):151-157
- Pryma DA, Akhurst T. Hydronephrotic ectopic pelvic kidney simulates sacral metastasis from breast cancer. *Clin Nuc Med* 2005; 30(4):244-245.
- Groome JR, Pryma DA, Donahue, RM. Distribution and partial characterization of CREB-like immunoreactivity in the medicinal leech *Hirudo*. *Invert Neurosci* 2001; 4:95-103.

**Abstracts**

- Pryma DA, Schwartz J, Nagel A, Zelenetz AD, Abrey LE, Humm J, Divgi CR. Radioimmunotherapy of recurrent primary CNS lymphoma with yttrium-90 Ibritumomab Tiuxetan. 2005 Annual Congress of the European Association of Nuclear Medicine; 2005 October 15-19; Istanbul, Turkey (in press).
- Pryma DA, Beyder D, Humm J, Strauss HW. Simultaneous dual isotope acquisition of iodine-123 and technetium 99m. 2005 Annual Meeting of the Society of Nuclear Medicine; 2005 June 18-22; Toronto, Canada. Reston: SNM, Inc, 2005: 474P.
- Ravizzini G, Pryma DA, Strauss HW. Coronary artery calcification adds prognostic information to myocardial perfusion imaging in pre-operative risk stratification of oncological patients. 2005 Annual Meeting of the Society of Nuclear Medicine; 2005 June 18-22; Toronto, Canada. Reston: SNM, Inc, 2005: 278P-279P.
- Pryma DA, Divgi CR, Wong DW, Humm J, Pierre C, Jungbluth AA, O'Donoghue JA, Ruan S, Shia J, Smith-Jones P, Finn RD, Old LJ, Larson SM. *In vivo* quantification of antigen expression using PET/CT. Proceedings of the Academy of Molecular Imaging annual conference; 2005 March 18-23, Orlando, Florida. New York: Springer, 2005: 179.
- Pryma DA, Schöder H, Robbins RJ, Larson SM, Yeung HWD.  $^{18}\text{F}$ -FDG PET improves diagnostic accuracy in patients with Hürthle cell carcinoma. Proceedings of the Radiological Society of North America 90<sup>th</sup> scientific assembly and annual meeting; 2004 November 28-December 3; Chicago, Illinois. Oak Brook: RSNA, Inc, 2004: 646.
- Mascio C, Pryma DA, Shayani V, Labropoulos N. Outcome analysis of routine laparoscopic appendectomy, selective laparoscopic appendectomy and open appendectomy. Proceedings of the 8<sup>th</sup> world congress of endoscopic surgery; 2002 March 13-16; New York, New York. Los Angeles: SAGES, 2002: 123.

**Special Skills**

- Laboratory experience with antibody binding, fluorescence microscopy, whole mount and Western blot immunohistochemistries and cell culture.
- Computer hardware and software proficiency, including C++, Java, PHP and HTML programming experience.
- Fluent Ukrainian.

**Honors and Professional Affiliations**

- Co-recipient of Intern of the Year Award.
- Chief Resident, Department of Nuclear Medicine, Memorial Sloan-Kettering Cancer Center.
- Poster Award, 8<sup>th</sup> World Congress of Endoscopic Surgery
- Member, Radiological Society of North America, Society of Nuclear Medicine and New York Roentgen Society, Academy of Molecular Imaging

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