

APPLICATION FOR HUMAN USE RESEARCH INVOLVING MACHINE PRODUCED RADIATION

I. General Information

1. PI/Applicant:	2. Dept:	3. Email Address:	4. Phone #:		
5. Physician supervising the use o	f machine-produced radiation on subje	ects (if different from above):			
6. Individual Completing This Ap	plication (if different from above):	7. E-mail Address:	8. Phone #:		
9. Title and Any Identifying Num	bers of Research Study:				
10. Expected Start Date:	11. Expected Project Duration:	12. IRB No. (or	type "Pending"):		
II. Type of X-Ray Producing Dev	ice(s) Utilized (Check all that apply)			
Radiographic x-ray machine Dental x-ray machine	Fluoroscopic x-ray machine [celerator Other (specify):	CT Scanner Dual pho	oton x-ray absorptiometry		
III. Description of Radiation Use					

Table 1 – Machine Produced Radiation Procedures

		, "		"
	# per Yr for Research	# Over		# Over
		Entire	# per yr	Entire
Procedure Description		Study for	for SOC	Study for
			101 500	
		Research		SOC

1. The machine produced radiation procedures will be performed at the following locations (check all that apply): UH Radiology, WD Radiology, Riley Radiology, Methodist Radiology, Other (list):

2. Does the study protocol allow for alternative procedures that do <u>not</u> require the use of machine-produced ionizing radiation for research purposes? Yes No If "Yes" is checked, provide justification for using the procedure that involves the use of machine-produced ionizing radiation.

3. Provide any comments regarding the information supplied in Table 1 here:

If the number or type x-ray procedures vary among groups of subjects (e.g., control subjects versus non-control subjects) a separate line entry should be provided for a representative subject from each group in Table 1.

In some cases, radioactive materials may be administered to the subjects as part of their "standard of care (SOC)." Please complete Table 2 for all SOC procedures involving the administration of radioactive materials. Note: If radioactive materials are administered to the subject for research purposes, Rad. Safety Form A-1a should be completed rather than this form.

Table 2 – SOC Radionuclide Administrations

Chemical Form or Procedure	# Admin. Per Year	# Admin. Entire Study

4. The radionuclides listed above will be administered at (check all that apply):
UH Nuc. Med. WD Nuc. Med. Riley Nuc. Med. IUSCC PET Goodman Hall PET Methodist Nuc. Med./PET
Other (list):

5. Provide any comments regarding the information supplied in Table 2 here:

IV. General Information Required for All Human Use Research Studies

1 Drov	vide a brief description of the research project including the rationale for utilizing machine-produced radiation:
I. PIOV	The a orier description of the research project including the rationale for utilizing machine-produced radiation:
2. Prov	vide the following information regarding the research subjects:
	a. Total number of subjects for the entire study:
	b. Total number subjects under 18 years of age, if any:
	c. Women of child-bearing age will be included in the study: Yes No
	d. Are any of these subjects "normal" volunteers?: Yes No
	e. Provide any specific information regarding the research subjects in this study that may be relevant with respect to the
	radiation safety review of this study:
	ppy of some information required by the IRB can either be submitted with this form or the Radiation Safety Office can obtain
that 1	information directly from the KC-IRB website. Please indicate where the documents below are located:
	a. Lay Study Summary & Research Design questionnaire: Attached Available on KC-IRB website
	b. Risks, Benefits, Protections Questionnaire: Attached Available on KC-IRB website
	c. Informed Consent Statement: Attached Available on KC-IRB website
	d. Research Study Protocol: Attached Available on KC-IRB website
4. Inser	rt any comments on this section here:

V. Radiation Dose Information.

Please provide the following information regarding the machine-produced radiation for research purposes as listed in Sections II and III:

111.
1. Detailed dose calculations are required for machine-produced radiation of subjects for research purposes (not SOC) listed in Table
1. The calculation method, references, and any assumptions associated with the radiation dose calculations should be provided.
Assistance with dose calculations can be obtained from the Office of Research Imaging, the Radiation Safety Office, or possibly
the clinical department administering performing the procedure.
Dose calculations for machine-produced radiation are attached or,
Dose calculations for machine-produced radiation are provided on page number(s) of the study protocol.
I request the Radiation Safety Office provide dose calculations for the procedures listed in Table 1 (only applies to
radiographs, DXA scans, and/or fluoroscopic procedures).
2. Insert any comments on this section here:

VI. Signature of Applicant

Digital Signature: ______ Date: ______ Date: ______ The applicant may insert a digital signature above. In lieu of a digital signature, by placing an "X" in the box below, the individual completing this form verifies that the information contained in this application has been shared with the applicant and the applicant is in full agreement with the contents of this application.

I hereby verify that the contents of this application have been shared with the applicant and the applicant is in full agreement with the information contained herein.

Name of Individual Providing this Verification:_

Date:

Radiation Safety Office Use Only

Approved by:

Radiation Safety Office (date):

MPRSC Subcommittee (date):_____

MPRSC (date):_____