MILLE LACS BAND OF OJIBWE HEALTH AND HUMAN SERVICES POLICY & PROCEDURE

Department: Health Services-Radiology	Policy Number: HHS-HS-RAD 1419
Policy Title: Fetal Protection	
Attachments: Declaration of Pregnancy	
Revision History: 09, 02/15, 3/18, 1/21	Revised by/Date: Lance Roeschlein, Dr. Ravi Gupta 1/2022
Approved by:	Date:
Jenna Kuduk, Health Services Director	nal 201/21/22
Approved by:	Date:
Nicole Anderson, Commissioner of HHS	2-3-22

POLICY STATEMENT: It is the policy of Mille Lacs Band Health Services Radiology department that occupational exposure levels for female employees of child-bearing age are within NCRP (National Council on Radiation Protection and Measurements), Minnesota Administrative Rules and Indian Health Service Guidelines.

PURPOSE: The purpose of this policy is to establish a fetal protection policy that limits fetal exposure to ionizing radiation.

PROCEDURE:

- A. Any pregnant employee is not allowed to be in the radiology room or dental operatory during x-ray exposure.
- B. The Fetal Protection policy and procedure will be reviewed by the Radiation Safety Officer (RSO) and staff annually.
- C. New employees will read policy and sign prior to working with radiographic equipment.
- D. Declared pregnant women will receive a personal dosimeter during the entire pregnancy and must be worn at the abdomen and under any lead/lead free aprons (if apron is worn) to ensure that they receive less than 0.5 rem annually.
- E. Barrier protection to be used whenever possible when the pregnant employee operates radiographic equipment.
- F. If shielding is not possible, the pregnant employee must stand at least two meters from the tube head and out of the path of the primary beam
- G. Employee may voluntarily declare her pregnancy by signing the attached "Declaration of Pregnancy" form indicating she wishes to declare her pregnancy and follow the institution's radiation exposure limits to fetus of 0.5 rem maximum for the period of gestation, not to exceed a rate of 0.05 rem for any single month. The declaration of pregnancy form is available in the radiology manual.
- H. The employee will be given two dosimeters that shall be worn when conducting either radiographic or fluoroscopic procedures. One dosimeter shall be worn at the waist level under the lead/lead free apron during the gestation period and the other dosimeter shall be worn at the collar level (Note: The fetal radiation dosimeter shall be turned in monthly in order to determine monthly dose). The Regulatory Guide 8.36 for the revised regulations which recommend assigning the dose most representative of the fetal

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- exposure, i.e. in the mother's lower torso. In addition to providing deep dose, the report provides a column for the RSO to write in any internal dose in case of radionuclide intake.
- I. For the period from conception until the declaration of pregnancy is made and a dosimeter is issued, the Radiation Safety Officer (RSO) will make a determination of the dose to the fetus from the calculations of associated exposure to radiation for work performed by the employee during that period. During the period of pregnancy, HHS management will make efforts to work with the employee to maintain fetal doses to less than the limits specified above.
- J. The dose from conception to declaration is recorded separately, thus allowing easy tracking of the 0.05 rem cap for the remainder of the pregnancy.
- K. In either case, the pregnant employee of Health and Human Services (HHS) must acknowledge by their signature that they have read the attached material regarding effects on the embryo/fetus of exposure to Radiation and other Environmental Hazards.
- L. If, the pregnant employee chooses to terminate the declaration of pregnancy and receive a higher dose of radiation to the fetus, they may sign the attached form as indicated, BUT, the institution is not held liable for doses received by the employee as a result of terminating the declaration of the pregnancy and accepting a higher dose to the fetus.

Internal and/or External References	Indian Health Manual, Part 3, Chapter 21 – Diagnostic Imaging
	Program
	Minnesota Administrative Rules 4732.0440
	Minnesota Administrative Rules 4732.0415
	National Council on Radiation Protection and Measurements,
	Report 116 – Limitation of Exposure to Ionizing Radiation
Compliance - Posting Date	
Replaces - Policy Number	2/3/263244
Next Review - Due Date	0 1/2023 2/3/2023 (AD)



DECLARATION OF PREGNANCY

Declaration of Pregnancy I filled above. Included wi	arding the potential health effects from ry Guide 8.13 by the Nuclear Regulatory ration of pregnancy to the Radiation Safety			
Declaration of Pregnancy I filled above. Included with were still in my possession. Please arrange to end the monitor dosimeters. I have read and understand the written materials regard exposure to ionizing radiation published in Regulato Commission. The decision to revoke my prior declar Officer is a personal choice which I have made freely	arding the potential health effects from ry Guide 8.13 by the Nuclear Regulatory ration of pregnancy to the Radiation Safety			
Declaration of Pregnancy I filled above. Included wi were still in my possession. Please arrange to end the monitor dosimeters. I have read and understand the written materials rega	th this are any unreturned monitors that e issuance of any additional pregnancy arding the potential health effects from			
Declaration of Pregnancy I filled above. Included wi were still in my possession. Please arrange to end the	th this are any unreturned monitors that			
	I wish to formally notify the Radiation Safety Officer that, as of this date, I am revoking the Declaration of Pregnancy I filled above. Included with this are any unreturned monitors that were still in my possession. Please arrange to end the issuance of any additional pregnancy monitor dosimeters.			
(Your Name Printed) REVOCATION DECLARATION OF PREGNANC				
(Vour Nama Printed)				
(Your Signature)	(Date)			
I understand the radiation dose to my embryo/fetus of allowed to exceed 0.5 rem (500 mRem) (unless that time of conception and submitting this letter). I also may require a change in job or job responsibilities d	dose has already been exceeded between the understand that meeting the lower dose limi			
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In accordance with the NRC's regulations at 10 CFR declaring that I am pregnant. I believe I became pregand year need be provided).	20 1208 "Dose to an Embryo/Fetus " Lam			