

Sudan University of Science and Technology

College of Graduate Studies



**Assessment of Patients and Staff Radiation Doses in Cardiac
Catheterization Procedures**

تقويم الجرعات الإشعاعية للمرضى والعاملين أثناء عمليات قسطرة القلب

A thesis submitted for fulfillment of the requirement of PhD degree in medical physics

:By

Abdelrahman Adam Ahmed Amer

Supervisor

Dr. Mohamed Elfadil Mohamed Garelnabi

Associate Professor

March 2015