



Russia, Nagasaki and Fukushima:

Nurturing Leaders in Disaster and Radiation Health Sciences

Nagasaki University



Fukushima Medical University



Graduate School of Biomedical Sciences
Nagasaki University

Prof. Noboru Takamura

Remembrance of Nagasaki University: Atomic Bomb and Chernobyl Accident

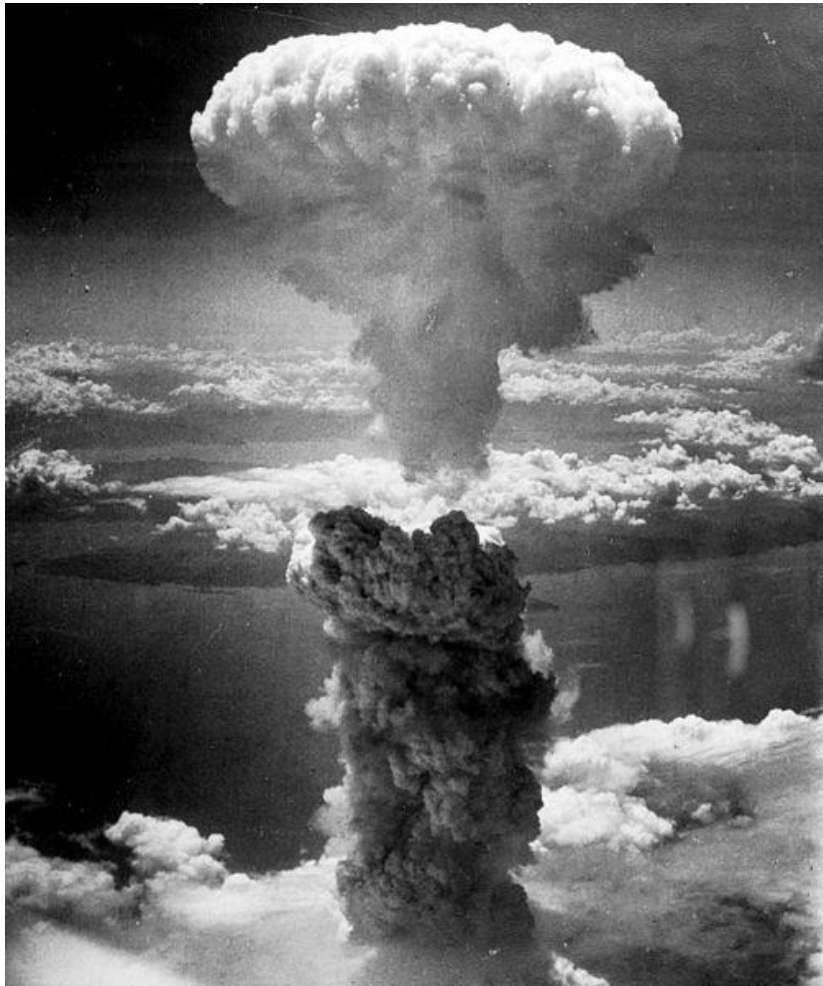


国立大学法人
長崎大学
NAGASAKI UNIVERSITY



公立大学法人
福岡県立医科大学

Atomic Bomb, Nagasaki (1945)



Chernobyl Nuclear Power Plant
Accident (1986)



Necessity of capacity building in the field of Disaster and Radiation Medical Sciences

During Fukushima’s compound disaster (earthquake, tsunami, and nuclear power plant accident), it became clear that there was a shortage of medical professionals knowledgeable about disasters and radiation health sciences.

Acute phase



Radiation emergency medicine to treat patients with acute radiation syndrome



Evaluation of exposure doses after the accident.



Emergency monitoring and decontamination.



Rescue operations for victims caught in the earthquake or tsunami.

People to provide emergency medical care for radiation exposure

People to measure and assess the amount of radioactivity and exposure to radiation in the environment

People with medical knowledge to carry out rescue operations

Chronic phase



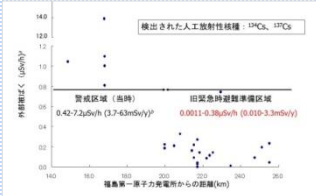
Transfer and admission of in-patients to hospitals.



Medical support and provision of healthcare in shelters.



Assessment of internal levels of radiation exposure.



Validation of feedback through the assessment of radiation levels.

People to provide healthcare to many affected residents in shelters

People to measure and assess the amount of radioactivity and environmental radiation exposure

Recovery phase



Radiation risk communication and rehabilitation



4085人			
	人数(人)	割合(%)	
A	1852	45.4%	99.0%
B	4321	10.6%	
C	2489	61.0%	
D	44	1.1%	
E	9	0.2%	

Long-term healthcare for residents.

People to communicate the health risks of radiation

People to provide long-term support to affected residents

Disaster and Radiation Health Sciences Joint Degree (Master's Degree)

Nagasaki University

Atomic Bomb Disease
Institute
School of Health Sciences
Kawauchi Village
Reconstruction Promotion
Base



Graduate School
Biomedical Sciences

Graduate School
Graduate School of Medicine

Joint Graduate Degree
Disaster and Radiation Exposure Medical Science Joint
Degree (Master's Degree)

Medical Science
Course

Health Nursing
Science Course

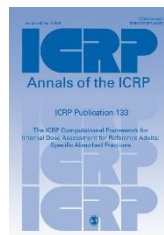
Fukushima Medical University

Fukushima International
Medical Science Center
Radiation Medical Science
Center

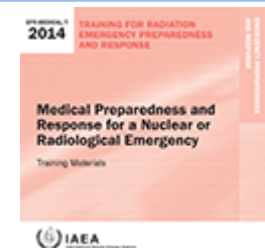


Introduction of English lectures and training materials by top level staff from
international organizations

International
Commission on
Radiological
Protection (ICRP)



International
Atomic Energy
Agency (IAEA)



For the Establishment of Double Degree between three universities



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長崎大学
NAGASAKI UNIVERSITY



公立大学法人
福島県立医科大学



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NAGASAKI UNIVERSITY

NU

FMU



公立大学法人
福島県立医科大学

Disaster and Radiation Health Sciences Joint Degree (Master Course)

Medical Science Course

Health Nursing Course

Double
Degree

IAEA, ICRP

Internship

Internship

WHO, IARC

NWSMU



Belarussian Medical
University
(The Republic of Belarus)

Gomel Medical University
(The Republic of Belarus)

Russian Institute of
Radiation Medicine
(Radiation Epidemiology)

Russian Institute of
Endocrinology
(Endocrinology and
Metabolism)



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