



# Doctor Takashi Nagai

“a writer, a poet, an artist, a humanist, a mystic”

# Early Life and Career

- Born in February 1908
- Attends Nagasaki Medical College and becomes an assistant in the Physical Rehabilitation Center specializing in radiology
- Gets married in August 1934 to Midori Moriyama, who played a large role in his conversion to Catholicism
  - 2 kids
- Takes the position as a lecturer at Nagasaki Medical College in 1937
- By 1940, both of his parents have died and he has served in the military twice
  - Becomes the head of the Physical Rehabilitation Department and an assistant professor
- In 1944, he receives his doctorate degree in medicine



# Radiation exposure

- Discovers he has leukemia in June of 1945 from radiation exposure and is given 3 years to live
- On August 9th, 1945 at 11:02 in the morning, the United States dropped an atomic bomb on Nagasaki, Japan.
- Nagai is severely injured in the blast and his wife is killed, but he works on a relief team for those suffering from atomic bomb disease

Dead: 73,884

Injured: 74,909

Sufferers: 120,820

Houses burned down, ruined, or damaged: 67,083



# Atomic Bomb Relief Report

Chapter 1 Imagination about the Atomic Bomb

Chapter 2 Overview of Radiation Hazards

Chapter 3: Actions of the Main Unit

Chapter 4 Symptoms presented by the patient

Chapter 5: Statistics of current patients

Chapter 6 Treatment

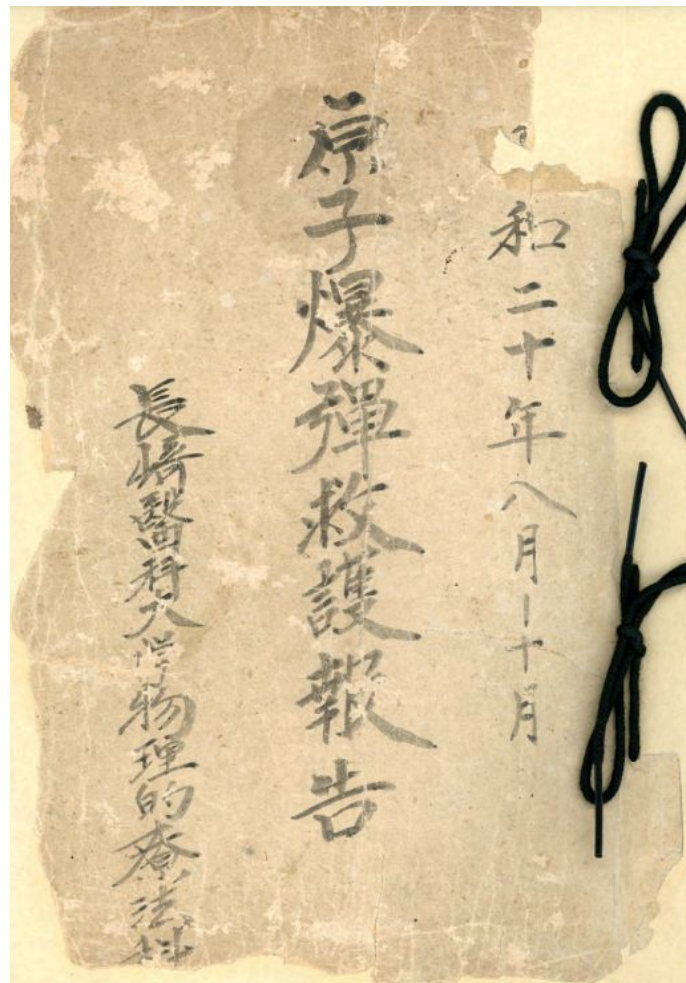
Chapter 7 Future Predictions and

Countermeasures

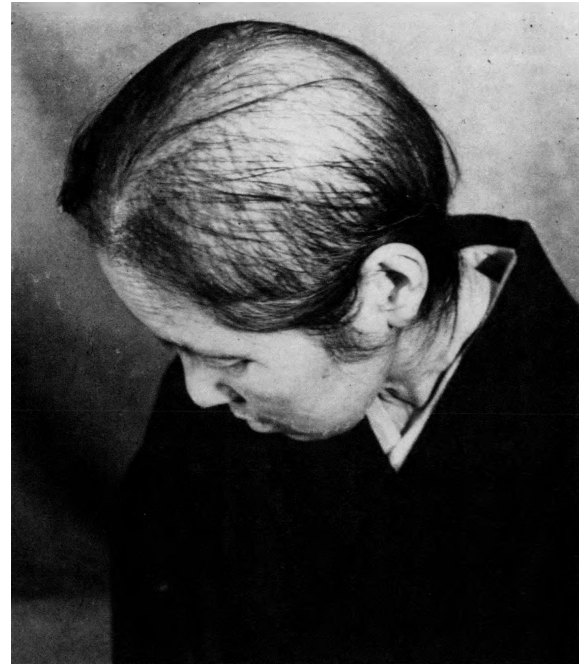
Chapter 8: Observations

Chapter 9 Reflection

Chapter 10 Conclusion



# Effects



# Radiation

- Latent period
- Direct or Indirect
  - Ex: skin damage from touching grass that was altered by bomb
- Secondary Damage
  - Residual radiation at the center of the blast



Immediate onset - at the instant of the explosion

- death, burns, external injuries, mental abnormalities.

Early onset - between 1 day and 1 week

- digestive disorders such as labial impetigo, stomatitis, and enteritis
- bleeding conditions such as hematochezia, hematemesis, and bloody stool
- blood disorders such as anemia.

Delay Onset - After the third week

- subcutaneous bleeding spots, bleeding ulcers of the gums, pharyngeal ulcers, high fever, and hair loss
- Some people are beginning to show symptoms similar to those of atrophic kidneys

Late onset - one to many decades

- skin ulcers and skin cancer
- birth of deformed children due to reproductive disorders.

# Treatment

- Spring water
  - 2 week faster recovery
- Autologous Blood Transfer
  - 0.2cc of sodium citric acid
  - Faster recovery
- Symptomatic treatment
  - Burms
  - Early onset blood disorder
  - Early onset digestive disorder
  - Late onset blood disorder



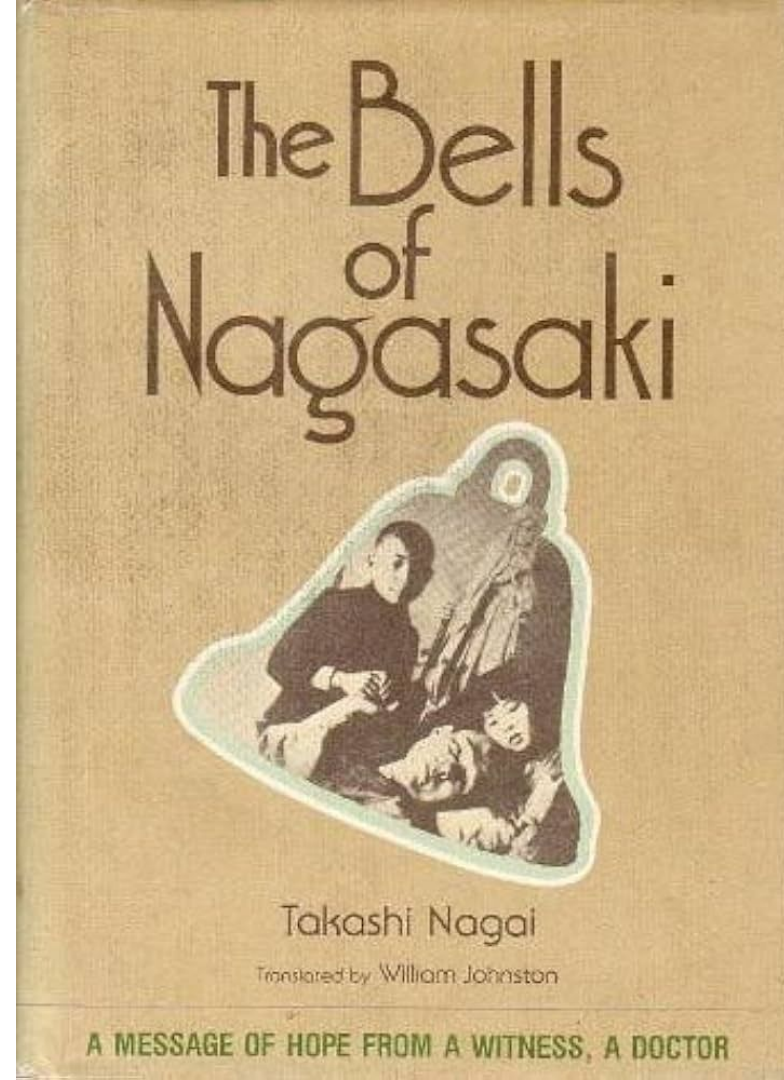
# Aftermath

- Nagai studies the effects of the bomb on the people he cared for as well as his own body
- In 1946, Nagai becomes a professor at the University of Nagasaki, presents his research on "Atomic Illness and Atomic Medicine" and becomes bedridden.
- Although he was confined to his bed, he maintained a spirit of medical curiosity
  - "I barely have the strength to look into a microscope, let alone to examine patients. Fortunately, though, my topic of research--atomic bomb disease--is right here in my own body."
- He lived in a small hut at the place where his house used to be and called it Nyokodo and writes numerous books



# The Bells of Nagasaki

- Occupation authorities of General Douglas MacArthur refused to print the book
- Appealed directly to Washington and got permission to publish with a descriptions of Japanese war crimes
- When the US occupation ended, Japanese war crimes were removed



# Sources

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