Background and Purpose

- Japanese employers of radiation-related facilities are obliged to perform medical examinations for **all radiation workers once or twice a year** mainly based on two laws from the viewpoints of radiation regulations and occupational safety and health.
- Recommendation by Radiation Council of Japan: "based on the latest progress of radiation protection and management systems, the recognition of abnormal exposure facts or deficiencies in the radiation work environment should not depend on the results of health examination for them."
- With this background, this study aims to **scientifically discuss the significance and effectiveness of medical examination** for radiation workers in planned and emergency exposure situations.

Our Thought and Hope in ICRP 2019

- We believe it is important to consider the issues from a comprehensive and multifaceted perspective through questionnaires and interviews in Japan (to radiation workers, occupational physicians, operators, regulators, etc.) and overseas (to regulators, experts of radiation protection and management, etc.).
- We have continuously collected information since 2018 such as legal descriptions, implementation status in each country, and **stakeholder needs** concerning medical examination. The data was shown in the Table below.
- From this study, we are expecting to **promote and accelerate the discussion to optimize** Japanese medical examination for radiation workers from medical and scientific viewpoints.

Thank you for your kind and strong cooperation on this questionnaire from Japan!

- Please answer the following question from the **viewpoint of radiation protection as an expert** in the radiation protection field.
  - ✓ Is surveillance for all radiation workers (HSRW) conducted in your facility (or country)? If yes, what is it based on?
  - ✓ Do you think that "HSRW (blood, skin, eye lens, etc.)" is necessary and why?
  - ✓ Do you think that employers need to confirm that all radiation workers are in good health from the viewpoint of radiation exposure effects and why?
- Please answer the following question from a **viewpoint other than radiation protection**.
  - ✓ Can you indicate some meanings and purposes for conducting HSRW other than radiation protection?

**Table. Conditions of Medical Examination by Laws and Regulations in Each Country**

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<thead>
<tr>
<th>Country name</th>
<th>Uses</th>
<th>Item</th>
<th>Stages</th>
<th>Malaysia</th>
<th>Mexico</th>
<th>United Kingdom</th>
<th>America</th>
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</table>

*The study and activity are under Radiation Safety Research Program sponsored by Nuclear Regulatory Agency (2018-2019). “Discussion on Optimized Medical Surveillance for Radiation Workers”*

“Points to Be Discussed”

1. **Needed for radiation workers receiving annual dose**, for example, less than 1 mSv?
2. **Any reasons other than health control?** Such as:
   - Employer’s special services for workers
   - Employee’s natural rights
   - Appropriate check for dangerous labor work (mental management, etc.)

Means of (a)-(d) in the above table

- (a) must
- (b) could be exempted under unnecessary
- (c) must be done under necessary
- (d) not stated in regulations