

Supplemental file

Questionnaire (Total 16 pages)

I. Age category (years)

Answer options
a) Younger than 40
b) 40 to 50
c) 50 or older

II. Institution

Answer options
a) University hospital or institute
b) Public hospital
c) Private hospital

III. Research activities as an author over the past 5 years:

Answer options
a) First author
b) Co-author only
c) No author

IV. Research activities as a presenter over the past 5 years

Answer options
a) First presenter
b) No first presenter

V. Experience of learning about research integrity

Answer options
a) Yes
b) No

VI. Recalling learning about research integrity

Answer options
a) I remember well.
b) I remember.
c) I remember a little.
d) I forgot a little.
e) I forgot most.
f) I forgot all.

VII. Awareness of research integrity after learning

Answer options

- a) I am extremely aware.
- b) I am very aware.
- c) I am moderately aware.
- d) I am slightly aware.
- e) I am not very aware.
- f) I am not aware at all.

VIII. Reasons to learn about research integrity

Answer options (multiple choices allowed)

- a) Required by the institutions
- b) Required to obtain approval of the institutional review board
- c) Recommended by the academic association for certification
- d) Considered necessity of learning of research integrity
- e) Interested in learning of research integrity

IX. Awareness of the following aspects related to research integrity

Answer options (multiple choices allowed)

- a) Autonomy of study subjects
- b) Safety of study subjects
- c) Appropriate record and store of study data
- d) Completeness of image creations
- e) Check for fabrication, falsification, and plagiarism
- f) Management of conflict of interest
- g) Appropriate of authorship
- h) Transparency of organizational relationship
- i) Nothing particular

X. Knowledge of the following policies related to research integrity in Japan.

- 1) Ethical Guidelines for Medical and Health Research Involving Human Subjects
- 2) Clinical Trial Act
- 3) Policies issued by the ministries including the Ministry of Education, Culture, Sports, Science, and Technology in Japan, the Japan Science and Technology Agency, and the Japan Agency for Medical Research and Development (Policies of the ministries).

Answer options

- a) I know very well.
- b) I know well.
- c) I slightly know.
- d) I don't know well.
- e) I don't know.
- f) I don't know at all.

XI. Experience of the following activities related to research integrity over the past five years.

Answer options (multiple choices allowed)

- a) Copying and pasting from other papers to write own manuscript (Copying and pasting).
- b) Became a co-author without any involvement in conducting research and drafting the manuscript (Gifted authorship).
- c) Conducted clinical researches without the approval from the institutional review boards (Omission of IRB approval).

XII. Subspecialty

Answer options
a) Internal medicine
b) Surgery
c) Others