

## Survey on healthcare professionals' working style, health, and safety

This survey research aimed to promote a working environment wherein medical employees can maintain a good well-being and safety and to engage in healthcare. The survey data that is collected from responders will be contributed as a valuable resource to achieve our purpose.

### 1. The background and purpose of the survey

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“Work style reform” is a priority policy of the Japanese government, aiming at a society that enables various work styles with a good work-life balance. Since 2007, many university hospitals have made an effort in supporting workplace health promotion of medical employees and in improving their work environment in Japan. In medical settings, where a multidisciplinary approach has been mainstream, a good relationship between healthcare professions and good working environments will result in adverse effect reduction and patient outcome improvement. Kyushu University Hospital has been supporting the needs of medical employees with a variety of work services and programs (called as “Kirameki (Glittering) Project) for 10 years. Work environments and workplace health promotion have been widely discussed as an important issue, with various services or support programs for career continuation systematically or politically practiced worldwide.

We will conduct a survey research for the current health status of medical employees and their workplace environment at St. Luke’s Medical Center and then examine by comparing them with Japanese hospitals.

This survey is supported by the Japan Society for the Promotion of Science Grant-in-Aid for Scientific Research with the approval of the Clinical Research Ethics Review Committee of the Kyushu University Medical Division.

This survey can be performed until 31 March, 2023.

### 2. Method

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#### Participants

The participants are 1,120 medical employees, who are working in the clinical fields (e.g., doctors, dentists, nurses, pharmacists, laboratory technicians, radiologists, physiotherapists).

- **Medical institution and the expected number of participants (n):**  
Kyushu University hospital (n = 400); Saga University Hospital (n = 160); Fukuoka University Hospital (n = 180); Kurume University Hospital (n = 180); Hospital of the University of Occupational and Environmental Health, Japan (n = 100); St. Luke’s Medical Center (n = 100)

## Measure

Table 1 shows the survey.

Table 1: The survey contents

Measurement	Component
Characteristics	Age, gender, marital status/household, education level, medical specialty, year of working experience, workplace, employment status
Work environment	Working hour, questionnaire: “The measurement of effort-reward imbalance at work”
Health status	Questionnaire: “General Health Questionnaire (GHQ),” lifestyle

## Data acquisition and statistics

You can answer either a paper questionnaire or an online one. If you answer the online questionnaire, please access the website via the QR code provided. The data will be compared between hospitals or countries as well as the previous questionnaires.

## 3. Privacy protection statement

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- We will conduct the survey as per Act on the Protection of Personal Information\*<sup>1</sup> and Personal information security policy at Kyushu University\*<sup>2</sup>.

\*1 Act on the Protection of Personal Information in Japan (English):

[https://www.ppc.go.jp/files/pdf/Act\\_on\\_the\\_Protection\\_of\\_Personal\\_Information.pdf](https://www.ppc.go.jp/files/pdf/Act_on_the_Protection_of_Personal_Information.pdf)

\*2 Personal information security policy at Kyushu University (Japanese):

<https://www.kyushu-u.ac.jp/ja/university/information/rule/rulebook/pdf/426/1/2004kitei160.pdf>

- We created the questionnaire using the online survey tool that was organized and managed at Kyushu University. As the response of questionnaire is guaranteed anonymity, the individuals and their response cannot be identified. Moreover, a third party is not permitted to answer the question of this survey.
- The obtained data is strictly managed by Naoki Nakashima, a professor of Medical Information Center (MIC) at Kyushu University Hospital. We transfer the data safely between facilities or researchers under the legal regulation and then analyze it accurately.
- We also don't disclose your privacy in the manuscript of any journals or academic conferences.

#### **4. Storage /management of privacy protection statement**

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- The obtained data is stored for 10 years at the storage server in MIC, and then the data are erased thoroughly using a data-erasing device.
- The data gathered from this survey will a valuable resource for future researches. If we use the data for a different purpose, we need to obtain the approval of the Clinical Research Ethics Review Committee of the Kyushu University Medical Division.

#### **5. Conflict of interest**

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Industry-academia-government collaboration is essential in developing clinical researches; therefore, we should manage conflicts of interest (COI) resulting from the involvement of collaborations between industry and academia appropriately.

Through medical research activities collaborating with the industry, you will manage the imbalance of profits among patients/participants, industry, and academia. Kyushu University decide on “Kyushu University Policy on Conflicts of Interest\*,” with all the clinical researches performed as per the COI management guideline.

Our research is supported by the grant of Grant-in-Aid for Scientific Research of Japan Society for the Promotion of Science. We declare no conflicts of interest associated with this survey.

Please contact Kyushu University COI management committees if you have any questions regarding COI.

TEL: (+81)92-642-5082

\*Kyushu University Policy on Conflicts of Interest:

[https://airimaq.kyushu-u.ac.jp/ja/data/Policy\\_on\\_Conflicts\\_of\\_Interest.pdf](https://airimaq.kyushu-u.ac.jp/ja/data/Policy_on_Conflicts_of_Interest.pdf)

#### **6. Disclosure of research and personal information**

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You can request for a disclosure of research materials or personal information but within a range where the originality of our study and protection of personal information are not disturbed. Please contact us if you want to request to view them.

## 7. The research members

This survey is conducted by the following researchers:

Headquarters	Medical Information Center, Kyushu University Hospital	
Chief of research	Medical Information Center, Kyushu University Hospital	Prof. Naoki Nakashima
Research fellows	Medical Information Center, Kyushu University Hospital	Associate Prof. Mariko Nishikitani
	Faculty of medical science, Kyushu University	Assistant Prof. Rieko Izukura
	Department of Surgery and Oncology, Graduate School of Medical Sciences, Kyushu University	Assistant Prof. Kinuko Nagayoshi
Cooperated researchers	School of Medicine, Saga University	Prof. Mizuho Kido
	Fukuoka University Hospital	Prof. Sawa Yasumoto
	Occupational Health Training Center, University of Occupational and Environmental Health	Prof. Shoko Kawanami
	School of Medicine, Kurume University	Associate Prof. Fukuko Moriya
	Fukuoka Dental College	Prof. Akiko Chishaki
	School of Nursing, Fukuoka Jo Gakuin Nursing University	Prof. Yuriko Fujino
	School of Nursing, Sapporo City University	Lecturer. Kikuko Taketomi
	St. Luke's Medical Center	Carolina Linda Tapia
	St. Luke's Medical Center	Vittoria Vanessa D. Velasquez
		Karen P Zaguirre

## 7. Contact Us

Please contact us if you have any questions.

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