



Sankei Shinbun Syuppan Co.,Ltd.

# JDNREI

**J**apanese **D**isaster **N**ursing **R**eadiness **E**valuation **I**ndex

Please pronounce JDNREI as [dʒéi-dí'-én- réi].

## **【Purpose】**

Today, disasters can occur anytime and anywhere in the world, cause great damage, and threaten people's lives. This has increased opportunities for many registered nurses (RNs) to be deployed to disaster sites.

This scale is an index purposed for nurses' self-evaluation on their readiness and preparation for dispatch to perform medical care at sites of disaster, and it is composed of a total of 37 items pertaining to the following six subscales: (i) emergency nursing skills, (ii) practical skills for disaster response, (iii) communication skills for teamwork, (iv) effective coping with daily stress, (v) adaptability to stressful situations at disaster site, and (vi) cooperation skills. This questionnaire is designed to create an opportunity for nurses facing deployment to look back on themselves and gauge their readiness. It is also purposed to assist nursing administrators in forming the bases for selecting personnel to deploy on disaster duties in the future while contributing to the application of preparatory measures preceding deployment to disaster sites. The 37 items were selectively designated for the purpose of the scale's versatility and precision. These 37 items thus do not cover everything that is necessary for disaster dispatch activity. Moreover, JDNREI is designed to be used for acute phases of disaster cycles. Furthermore, individual readiness should be assessed using JDNREI's overall score, not each subscale.

## **【Definition of terms】**

“Individual readiness” refers to “capabilities including family readiness for providing adequate nursing care in a disaster situation, such as the following: knowledge, skills, and physical and mental preparation” (Maeda et al., 2018).

## **【Instructions】**

- This survey can be applied to both inexperienced and experienced RNs excluding Licensed Practical Nurse in disaster dispatch activities.
- The JDNREI takes about 8 minutes to complete.
- Please circle the number that corresponds to your answer(s) and enter numbers or words in the brackets.
- Please answer all questions.

## **【Reference】**

Maeda, T., Kotera, S., Matsuda, N., & Huebner, C. A. (2018). Developing a scale to measure Japanese nurses' individual readiness for deployment to disasters. *Nursing and Health Sciences*. 20, 346–354.

## **#1: Emergency nursing skills**

Please tell us how each of the following statements (Nos. 1-6) applies to you, according to your present level of knowledge/skills, by circling the corresponding number for your answer.

- ① Hardly applies to me
- ② Applies to me only a little
- ③ Neither
- ④ Applies to me to a certain extent
- ⑤ Applies to me

1	I am familiar with the different types of shock	1	2	3	4	5
2	I can treat life-threatening injuries.	1	2	3	4	5
3	I can explain ABC (Airway, Breathing, and Circulation) protocols in detail.	1	2	3	4	5
4	I can make adequate judgements based on the patient's conditions and provide to doctors the appropriate information necessary for planning treatment.	1	2	3	4	5
5	I am familiar with field infection control protocols.	1	2	3	4	5
6	I can select the appropriate airway for patients with signs of breathing difficulty.	1	2	3	4	5

## #2: Practical skills for disaster response

For the next questions (Nos. 7 to 9), please circle the number that corresponds to your answer to each question.

7	Have you ever learned how to perform mass casualties (MASCAL) response? ① No. ② I learned it from journals and/or handouts. ③ I plan to receive <u>MASCAL</u> training. ④ I learned it through in-service training. ⑤ I learned it through training outside of my workplace.	1	2	3	4	5
8	Have you ever experienced triage for real MASCAL? ① No. ② I have experienced triage with simulated patients in context of training. ③ I have observed triage at an emergency department. ④ I have taken part in triage at an emergency department. ⑤ I have taken part in triage involving many patients at a dispatch destination.	1	2	3	4	5
9	I can care for patients with chemical, biological, radiological, nuclear and explosive (CBRNE) injuries. ① Hardly applies to me ② Applies to me only a little ③ Neither ④ Applies to me to a certain extent ⑤ Applies to me	1	2	3	4	5

Please circle the number for the answer that most applies to you for each of the operations described below (Nos. 10-12), according to your present level of skills.

- ① I have no training experience.
- ② I have training but no actual experience.
- ③ I have training and minimal experience.
- ④ I have training and moderate experience.
- ⑤ I have training and am fully competent.

10	Evacuation procedures	1	2	3	4	5
11	Field sanitation and hygiene	1	2	3	4	5
12	Decision-making about the priorities and methods of work.	1	2	3	4	5

Please tell us how each of the following statements (Nos. 13-14) applies to you, according to your present level of knowledge/skills, by circling the corresponding number for your answer.

- ① Hardly applies to me
- ② Applies to me only a little
- ③ Neither
- ④ Applies to me to a certain extent
- ⑤ Applies to me

13	I can decontaminate myself and patients using standard decontamination equipment	1	2	3	4	5
14	I can operate communication equipment.	1	2	3	4	5



**You have completed about half of the survey. Thank you for your answers.**

**Please check again if all fourteen items have circle marks and then continue answering the rest of the questions.**

### **#3: Communication skills for teamwork**

Please tell us how each of the following statements (Nos. 15-22) applies to you, according to your present level of knowledge/skills, by circling the corresponding number for your answer.

- ① Hardly applies to me
- ② Applies to me only a little
- ③ Neither
- ④ Applies to me to a certain extent
- ⑤ Applies to me

15	I can talk positively and expressively.	1	2	3	4	5
16	I can often speak to my colleagues.	1	2	3	4	5
17	I can use humor.	1	2	3	4	5
18	I can follow work instructions well.	1	2	3	4	5
19	I can easily join into other people's conversations.	1	2	3	4	5
20	I can build trusting relationships with people.	1	2	3	4	5
21	I can change my style of communication for each person I talk to.	1	2	3	4	5
22	I can find points of compromise while still maintaining my position on matters.	1	2	3	4	5

### **#4: Effective coping with daily stress**

Disasters and mass casualty events bring stress and challenges which tend to compound with pre-disaster stressors. Do you think you control your stress in regard to the following? For questions 23 and 24, please choose your answer from the following five options and circle the corresponding number.

- ① Not at all
- ② Somewhat, but not enough
- ③ Neither
- ④ I do
- ⑤ I do sufficiently

23	I cope with daily stress related to my family.	1	2	3	4	5
24	I cope with daily stress related to my finances.	1	2	3	4	5

### **#5: Cooperation skills**

Please tell us how each of the following statements (Nos. 25-29) applies to you, according to your present level of knowledge/skills, by circling the corresponding number for your answer.

- ① Hardly applies to me
- ② Applies to me only a little
- ③ Neither
- ④ Applies to me to a certain extent
- ⑤ Applies to me

25	I can respect others' opinions without denying them.	1	2	3	4	5
26	I can accomplish what I promised.	1	2	3	4	5
27	I can admit my own mistakes.	1	2	3	4	5
28	I can apologize for failure.	1	2	3	4	5
29	I have good listening skills.	1	2	3	4	5

## #6: Adaptability to stressful situations at the disaster site

Are you adaptable to various situations?

Please rate yourself for each of items listed below (Nos. 30-36), and circle the number corresponding to your answer. As for No. 37, please circle the number corresponding to your selection from the answers following the question.

- ① Does not apply to me at all
- ② Does not apply to me much
- ③ Neither
- ④ Applies to me somewhat
- ⑤ Applies to me completely

30	I am ready for victims' deaths.	1	2	3	4	5
31	I am ready for my possible death	1	2	3	4	5
32	I am ready for weather extremes.	1	2	3	4	5
33	I am ready to deal with lack of privacy.	1	2	3	4	5
34	I am ready to work for long hours	1	2	3	4	5
35	I understand how to deal with myself when I am depressed during dispatch.	1	2	3	4	5
36	I am ready to provide different nursing documentation and nursing care/skills and implement medication management methods depending on the affected area, even if it is different from my current workplace.	1	2	3	4	5
37	Are you ready to use partition-less, co-ed sleeping quarters? ① I cannot adapt to that. ② I cannot adapt much to that. ③ Neither ④ I can adapt to that somewhat. ⑤ I am confident I can adapt to that.	1	2	3	4	5

Were you able to provide answers to all 37 items above? Please check to make sure you did not miss any.

We will now ask you some questions about your profession and your current situation.

## #7: Background details

Please circle the number for the appropriate or closest answer from the options for each item and enter the appropriate words or numbers in the brackets. I -2

I-1	What is your gender? 1 Male 2 Female
I-2	What is your age ? [ ] years old
I-3	Select your current professional role (select only one response) 1 Registered Nurse 2 Midwife 3 Public Health Nurse If you are a certified nurse or a certified nurse specialist, please check the following and write your specialty in the bracket. 4 Certified nurse (CN) [specialty : ] 5 Certified Nurse Specialist (CNS) [specialty : ]
I-4	What is your current position? (check only one) 1 staff nurse 2 chief 3 head nurse 4 Director of Nursing (DON ) or deputy DON



I-17-(2)	Answer this question only if you answered "Yes" to the previous question I-17-(1). How many times have you been dispatched? [            ] times
I-18-(1)	Have you participated in disaster dispatch activities overseas? 1 Yes ➡ Please proceed to I-18-(2) 2 No ➡ Please proceed to I-19
I-18-(2)	<u>Answer this question only if you answered "Yes" to the previous question</u> How long was the duration of your participation in the disaster dispatch activity overseas? (If you have been dispatched overseas more than once, please answer the longest duration.) 1 Two weeks or less 2 Two weeks to one month 3 One to three months 4 More than three months
I-19	Do you have experience being dispatched further in the past? 1 Yes                    2 No
I-20	Concerning the possibility of being dispatched to the devastated area of the latest disaster, please choose the answer that applies to you most. (Please select only one answer.) 1 I have been dispatched to the disaster area, where I have or expect to have duties. 2 I am not currently dispatched, but I am scheduled for dispatch within three months from now. 3 I am not currently dispatched, and I will not be dispatched any time within three months from now. 4 Other_ _____
I-21	Please choose the answer that best describes your overall feeling about your past disaster dispatch experience. 1 Bad 2 Not so good 3 Neither good nor bad 4 Good 5 Excellent
I-22	Did your family understand (support) your participation in disaster dispatch activities? 1 They did not understand it. 2 They did not understand it much. 3 Neither 4 They understood it. 5 They understood it completely.
I-23	Would you like to participate in disaster dispatch activities again if there is an opportunity? 1 Yes    2 Neither    3 No
I-24	Did you receive any affirmative feedback from your supervisors or colleagues upon returning to your workplace when your dispatch activities were over? 1 Yes    2 Neither    3 No

**You have completed the questionnaire. Please check again to make sure none of the items have missing answers.**



**Thank you very much for answering many questions amid your busy schedule.**

**We thank you deeply for your valuable time.**

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