**Questionnaire of denture marking for dental identification, 2019: A survey supported by the ministry of Health, Labour and Welfare, Japan.**

The number of institutions which questionnaire was sent

1. Dental institutions

46 associations of dentists in each prefecture

47 associations of dental technicians in each prefecture

43 forensic odontology departments

64 dentists who are the members of the dental association in Niigata prefecture

2. Nursing homes: 442 facilities

**Response number**

**1. Dental institutions: 210 (94 by mail, 116 by online)**

**2. Nursing homes: 169 (160 by mail, 9 by online)**

\*Questionnaire for the nursing care stuff was a bit different from that for the dental stuff, excluding technical terms.

The questions were as follows.

**Questionnaire for dental stuff (p23-49)**

**Q1 What is your occupation?**

General dental practitioner (private clinic), dental clinic dentist, basic dental scientist, forensic odontologist, dental technician, other.

**Q2 For only dentists: Do you usually collaborate with police for identification work?**

Yes/No

**Q3 For only dentists: What is your special field?**

Prosthetics, Restorative dentistry, Pedodontics and Orthodontics, Oral surgery, basic dental science, other

**Q4 How long is your work experience?**

Less than 10 years, over 10 years and less than 20 years, over 20 years

**Q5 Have you ever heard the method of information marking on prosthetics?**

Yes/No

**Q6 Have you ever heard of denture implantation of Radio frequency identification (RFID) tag for identification?**

Yes/No

**Q7 Have you ever saw a denture with a RFID tag?**

Yes ⇒ go to Q8 No⇒ go to Q11

**Q8 Where did you see it?**

Unidentified case which I experienced ⇒ go to Q9

At a lecture, training session, conference, etc

The system has already set up in my clinic ⇒go to Q10

Other dental clinic

Book, journal, etc

Other

**Q9 Have you experienced any case which lead to identification using the RFID system?**

Yes / No

**Q10 What is the aim of using RFID system at your dental clinic?**

Free comment

**Q11 Do you know other marking system shown below?**

Marking directly to the denture by laser or dental instruments

Implantation of code such as bar cords or QR cords

Implantation of metal or resin plate

Others: Implantation of X-ray film, using fluorescent ink, etc

I don’t know any of them

**Q12 Have you ever saw a denture marking system shown in Q11?**

Yes ⇒　go to Q13 No⇒ go to Q16

**Q13 Where did you see it?**

Unidentified case which I experienced ⇒ go to Q14

At a lecture, training session, conference, etc

The system has already set up in my clinic ⇒go to Q15

Other dental clinic

Book, journal, etc

Other

**Q14 Have you experienced any case which lead to identification using the marking system?**

Yes / No

**Q15 Which kind of system are you using for the denture marking? Please fill in the specific method.**

free comments

**Q16 Do you know any dental clinics which using RFID system?**

Yes / No

**Q17 Do you know any dental clinics which using other denture marking system shown in Q11?**

Yes / No

**Q18 What kind of information do you think that it should be written into RFID tag? The data would be encoded. Multiple answers possible.**

Name of dental clinic, patient’s ID number, name of dental technical lab, patient’s name, serial number of the tag, patient’s address (city), patient’s medical history, information of dental material, date of the prosthesis was delivered, all information above, others.

**Q19 How do you think of denture marking using RFID system? Denture marking is not covered by insurance. However, dental clinics can demand additional fee with the patient’s agreement.**

The system should be introduced widely.

The system should be introduced when patient requests.

I don’ think it is necessary.

I think it should not be introduced.

Other

**Q20 What do you think is the advantage of RFID system? Multiple answers possible.**

Identification for disaster or poriomania.

It can be used in place of a medical card.

It could be easy to cooperate with other medical institutions such as hospital, pharmacy, nursing home.

The information can be updated easily comparing to other marking methods.

The technique is easier than other marking methods.

The information is able to read both intraoral and extraoral condition.

The system appeal to patients for the quality of prosthesis.

It can be easier to maintenance of the prosthesis.

In case of uncertain denture aspiration, it can be used as a prior examination to check if the prosthesis exist or not.

Other

**Q21 What do you think is the disadvantage or problem of RFID system?**

It costs money to install the system.

It is not covered by insurance.

Some devises have to be set up, such as RFID tag reader.

I don’t know any dental technical lab to collaborate.

I can’t accept writing patient’s information into the tag even if it is encoded.

I think it is hard to get patient’s agreement.

I think it is not better than marking information to the denture directly.

Anxiety of long-term effects and stability.

It will be meaningless if the patient doesn’t use the prosthesis usually.

Other

**Q22 The denture marking system using RFID system can be applied to other social activities such as prevention of poriomania and collaboration of medical facilities. Please write if you have any suggestion.**

Free comments.

**Questionnaire for nursing care stuff (p50-81)**

**Q1 What is your occupation?**

Nurse, nursing care worker, assistant nurse, home carer, office worker, care manager, nutritionist, rehabilitation worker (including physical therapist, occupational therapist, speech therapist), other

**Q2 Where do you work for?**

Long-Term Care Health Facilities, special nursing home for the aged, Medical Long-Term Care Sanatoriums, nursing home, short stay service, home-visit care, other

**Q3 How long is your work experience?**

Within 3 years, over 3 years and less than 5 years, over 5 years and less than 10 years, over 10 years

**Q4 How many users (patients) are there at your work place?**

Number of users / I’m not sure

**Q5 Do you care for cognitively impaired elderly people at your work place?**

Yes/ No

**Q6 Have you ever cared a person using denture?**

Yes ⇒ go to Q7 No⇒ go to Q11

**Q7 How many users (patients) have dentures at your work place? Describe by percentage.**

About % / I’m not sure

**Q8 Who looks after the denture?**

Users (patients) do themselves, user’s family, nursing care stuff, I’m not sure, other

**Q9 When does the users (patients) use their dentures?**

Always in daytime, only when they eat, not using, depends on the person ⇒ go to Q10,

I’m not sure, other

**Q10 How many users (patients) do they wear their dentures except when they eat? Describe by percentage.**

About % / I’m not sure

**Q11 Have you ever experienced a case that denture was missing or found a denture which belongs to nobody?**

Yes ⇒ go to Q12

No

**Q12 What kind of problem occurred when the denture was missing?**

Free comments

**Q13 Do you think that it will be useful if the denture has a marking or implantation of IC tag?**

Yes / No

**Q14 Have you ever experienced a case that user (patient) swallowed their dentures?**

Yes / No

**Q15 Have you ever experienced a case that users (patients) with periomania got lost?**

Yes ⇒ go to Q16

No, I’m not sure, other

**Q16 How much time did it need to find the missing user (patient) ? If you have experienced a few cases, please answer the case which needed the longest time.**

1-2 hours, 3-6 hours, about half a day, 1 day, over 1 day, other

⇒ answer Q17

**Q17 How did the missing user (patient) was found? Ex) he/she had an ID card.**

Free comments

**Q18 Have you ever heard of marking system of dentures for identification?**

Yes / No

**Q19 Have you ever heard of RFID system of denture for identification?**

Yes / No

**Q20 Have you ever seen a denture with RFID system?**

Yes / No

**Q21 The pictures below show other marking system of dentures. Do you know these system?**

Marking directly to the denture by laser or dental instruments

Implantation of code such as bar cords or QR cords

Implantation of metal or resin plate

Others: Implantation of X-ray film, using fluorescent ink, etc

I don’t know any of them

**Q22 Have you ever seen dentures with marking system shown in Q21?**

Yes / No

**Q23 What kind of information do you think that it should be written into RFID tag for dentures? Multiple answers possible.**

Name of dental clinic, patient’s ID number, name of dental technical lab, patient’s name, serial number of the tag, patient’s address (city), patient’s medical history, information of dental material, date of the prosthesis was delivered, all information above, others.

**Q24 The data written into RFID tag could be encoded. Do you think encoding system is needed?**

Yes, it is necessary / No, it isn’t necessary

**Q25 How do you think of denture marking using RFID system?**

The system should be introduced widely.

The system should be introduced when patient requests.

I don’ think it is necessary.

I think it should not be introduced.

Other

**Q26 What do you think is the advantage of RFID system? Multiple answers possible.**

Elder people with dementia is increasing, so it will be useful for prevention of missing case caused by poriomania.

Many information can be written into RFID tag

It can be helpful to identify the person even they have no belongings.

It could be easy to cooperate with other medical institutions such as hospital, pharmacy, nursing home.

The information is able to read both intraoral and extraoral condition.

In case of uncertain denture aspiration, it can be used as a prior examination to check if the prosthesis exist or not.

It will be useful to identify the person in disasters.

Other

**Q27 What do you think is the disadvantage or problem of RFID system?**

There are less users (patients) wearing dentures in our nursing care institution.

I have never experienced a denture missing case, so I don’t think the system is necessary.

Writing their name to the denture container or directly to the denture is enough.

The users (patients) don’t go outside of our nursing care institution, so I don’t think the system is necessary.

It is hard to get agreement of users (patients) and their families.

I can’t imagine the actual use of RFID system.

Some devises have to be set up, such as RFID tag reader.

Anxiety of long-term effects and stability.

Denture marking system is not well known.

**Q28 The denture marking system using RFID system can be applied to other social activities such as prevention of poriomania and collaboration of medical facilities. Please write if you have any suggestion.**

Free comments.