

**Factors influencing patient disclosure of cancer diagnosis to the family dentist and medical-
dental collaboration in cancer care**

Supplementary Material

Supplementary Table 1: The question list of five sections

No.	Labels	Questions	Answer categories
1) Attribute section			
1a	Timing of diagnosis	When was the first time you were diagnosed you had cancer?	year and month
1b	Stage	What was the stage of your cancer when you were first diagnosed with it?	0, I, II, III, IV, don't know
1c	Treatment plan	What was included in your cancer treatment plan when you were first diagnosed with cancer?	(multiple choice) surgery, chemical treatment, radiation therapy, immunotherapy, other(free comments)
1d	Familiar person	When you were first diagnosed with cancer, was there anyone close to you who had experienced cancer?	yes, no
1e	Treatment status	What is the current status of your cancer treatment?	before treatment, among treatment, after treatment, don't know
1f	Dental clinic type	Which type is your family dental clinic?	single dental clinic, dental clinic with other departments, dental department in a large hospital such as a general hospital, other(free comments)
1g	Family dentist	What is the gender of your family dentist?	male, female, other [‡]
2) Knowledge section			
2a	Knowledge of healthy life expectancy	You know the meaning of "healthy life expectancy".	four choices [‡]
2b	Knowledge of 8020 promotion	You know the meaning of "8020 promotion*".	four choices [‡]

2c	Knowledge of medical-dental collaboration	You know the meaning of medical– dental collaboration for cancer care.	four choices [†]
2d	Keeping oral hygiene	You know that it is important to maintain oral hygiene before and after cancer surgery.	four choices [†]
2e	Causes oral complications	You know that cancer treatments can cause oral complications (stomatitis, taste disorders, etc.)	four choices [†]
3) Opinion section			
3a	Cooperate between doctors	You agree that your cancer physician and your family dentist cooperates to treat your cancer.	four choices [†]
3b	Automatically health data system	You agree on a system in which your health information (cancer, etc.) is automatically sent to your family dental clinic.	four choices [†]
3c	Tell the dentist	You want to tell your health information (history of cancer, etc.) to your family dental clinic yourself	four choices [†]
3d	Need to know	You don't think that your family dental clinic does not need to know your health information (history of cancer, etc.).	four choices [†]
3e	Direct relationship	You don't think there isn't a direct relationship between the teeth and mouth and body.	four choices [†]
4) Experience section			
4a	Physician advice	Were you advised by your cancer physician to tell your family dental clinic that you had cancer?	yes, no
4b	Talked the dentist	Did you tell your family dentist that you had cancer?	yes, no
4c	Wrote in questionnaire	Did you write in a medical questionnaire at your family dental clinic that you had cancer?	yes, no

4d	Around the sheet	Is there anything between the treatment sheets in your family dental clinic?	private room, wall, curtain, partition, no machine, no partition, other(free comments)
4e	Other patients	You aren't concerned about other patients when you talk to your family dentist on the dental chair.	four choices [†]
4f	Privacy	You feel that your privacy is secured when on the dental chair at your family dental clinic.	four choices [†]
4g	Complications (pain, etc.)	You felt troubled with cancer complications such as pain, bleeding, inflammation, of the teeth, gums, tongue, etc.	four choices [†]
4h	Complications (dry mouth)	You felt troubled with dry mouth as a complication of cancer.	four choices [†]
4i	Complications (taste disorder)	You felt troubled with taste disorder as a complication of cancer.	four choices [†]
4j	Interest of dentist	You don't think that your family dentist seems not interested in your health information (cancer, etc.).	four choices [†]
5) Characteristic section			
5a	Regular check-up	You think it is necessary to have a regular check-up at your family dental clinic.	four choices [†]
5b	Satisfaction	You are satisfied with your dentist as your family dentist.	four choices [†]
5c	Relationship between treatments	You want to know information about the relationship between cancer treatment and dental treatment.	four choices [†]
5d	Dentist opinion	You want to know the opinions of your family dentist regarding the maintenance of dental and oral health of cancer patients.	four choices [†]
5e	Dentist care	You feel that your family dentist cares about you well.	four choices [†]

5f	Asks from dentist	You will tell to your family dentist that you had cancer, if your dentist asks you "Did something change in your body?".	four choices [†]
5g	Conscious of life	By had cancer, you became more conscious of your life.	four choices [†]

[†] The choices are "4(strongly know/strongly agree)-3(know a little/agree a little)-2(don't know a little/disagree a little)-1(strongly don't know/strongly disagree)".

[‡] We made this response option because sometimes we have multiple dentists at the dental clinic working on a single patient in japan.

* "8020 promotion" is set out to help people to keep 20 or more of their own teeth until the age of 80, in Japan.

Supplementary Table 2: Results of univariate analysis

Items (n, %)	Reporting group n=211(42.2)	Non-reporting group n=289(57.8)	p	Factor analysis result
Male	138(65.4)	210(72.7)	0.082*	—
Age (mean, SD)	62.3±9.2	62.3±9.4	0.24	—
Post-2013 [†]	189(89.6)	234(81)	0.0084*	—
Treatment plan (multiple choice)(Q1c)				
Surgery	190(90)	254(87.9)	0.45	—
Chemical treatment	80(37.9)	76(26.3)	0.0056*	—
Radiation therapy	57(27)	68(23.5)	0.38	—
Immunotherapy	12(5.7)	13(4.5)	0.55	—
Others	6(2.8)	12(4.2)	0.44	—
Familiar person (Q1d)	124(58.8)	161(55.7)	0.5	—
Dental clinic type is "Single department clinic". (Q1f)	195(92.4)	268(92.7)	0.89	—
Private group	135(64.0)	178(61.6)	0.51	—
Urban residence	84(39.8)	98(33.9)	0.18	—
4a Physician advice	42(19.9)	1(0.3)	<0.001*	—
4g Complications (pain, etc.)	41(19.4)	21(7.3)	<0.001*	Factor 1
4h Complications (dry mouth)	30(14.2)	17(5.9)	0.007*	Factor 1
4i Complications (taste disorder)	54(25.6)	30(10.4)	<0.001*	Factor 1
2a Knowledge of healthy life expectancy	171(81)	243(84.1)	0.96	Factor 2
2b Knowledge of 8020 promotion	138(65.4)	168(58.1)	0.18	Factor 2

2c	Knowledge of Medical and Dental Care Cooperation	49(23.2)	24(8.3)	<0.001*	Factor 2
2d	Keeping oral hygiene	123(58.3)	101(34.9)	<0.001*	Factor 2
2e	Causes oral complications	115(54.5)	96(33.2)	<0.001*	Factor 2
5a	Regular check-up	207(98.1)	269(93.1)	<0.001*	Factor 3
5c	Relationship between treatments	150(71.1)	173(59.9)	0.033*	Factor 3
5d	Dentist opinion	140(66.4)	134(46.4)	<0.001*	Factor 3
5g	Conscious of life	160(75.8)	201(69.6)	0.031*	Factor 3
3a	Cooperate between doctors	189(89.6)	218(75.4)	<0.001*	Factor 4
3b	Automatically health data system	162(76.8)	194(67.1)	0.027*	Factor 4
3c	Tell the dentist	175(82.9)	167(57.8)	<0.001*	Factor 4
3d	Need to know	155(73.5)	188(65.1)	0.002*	Factor 5
3e	Direct relationship	168(79.6)	195(67.5)	<0.001*	Factor 5
4e	Other patients	155(73.5)	203(70.2)	0.095*	Factor 6
4f	Privacy	108(51.2)	117(40.5)	0.014*	Factor 6
4j	Interest of dentist	142(67.3)	165(57.1)	0.012*	Factor 6
5b	Satisfaction	186(88.2)	242(83.7)	0.0028*	Factor 6
5e	Dentist care	160(75.8)	158(54.7)	<0.001*	Factor 6
5f	Asks from dentist	174(82.5)	188(65.1)	<0.001*	Factor 6

*:P<0.1

† "Post-2013" is the responders who diagnosed cancer after 2013.(Q1a)