- symptomatology in both males (OR=4.14 CI = 3.42-5.00, <0.001, Table 3) and females
- 2 (OR=4.68 CI = 3.02-7.26, <0.001, Table 3) in this study.

Discussion

1

17

18

2	Although, dry eye disease has received a great deal of attention from health
3	workers and government agencies, large scale studies delineating prevalence of DED
4	and CL use in high school students have not been published so far.
5	The National Eye Institute (NEI) has identified tear film and dry eye research as an
6	important area in need of further research. Although clinical observations have long
7	suggested that dry eye syndromes exist in elder populations, there are few
8	epidemiological data available to describe the magnitude of the problem in high school
9	students. We carried out this cross-sectional prevalence survey to examine the
10	prevalence of severe dry eye symptomatology, clinically diagnosed dry eye and to
11	assess the prevalence of DED and CL use in the aforementioned young population.
12	Our study used the Schaumberg's dry eye questionnaire ² widely used in the
13	States to enable comparisons of epidemiological dry eye data between US and Japan
14	and also represents the largest epidemiological study in a relatively young population in
15	the world and from private high school students in Japan. We found DES to be
16	relatively common among Japanese high school students.

The current study revealed a high prevalence of CL wear related to clinically

diagnosed and severe symptoms of dry eye disease.

1	Contact lens wear has often been reported to be associated with dry eye ¹⁷ , and a
2	significant number of CL-wearing patients experience dryness. Symptoms of dry eye
3	are common in CL wearers, with 50-75% of wearers reporting symptoms of ocular
4	irritation ¹⁸⁻²² . If a conservative estimate is used (50%), approximately 17 million
5	Americans have CL-related dry eye. Of importance, was our observation that SCL user
6	showed a significantly higher prevalence of clinically diagnosed dry and dry eye
7	symptomatology in both sex. The CANDEES study confirmed that dry eye symptoms
8	were more prevalent in contact lens wearers. It was found that virtually half of the
9	contact lens wearers (50.1%) experienced dry eye symptoms compared with just 21.7%
10	of non lens wearers ²⁰ .
11	It should be noted that only private high school were selected for the study
12	which was conducted upon a request coming from Keio University health support
13	center to investigate the prevalence of DED and CL use in Keio University affiliated
14	high school.
15	Since all Keio University affiliated high schools were private, we selected four
16	other Tokyo district private high schools, one of which consented to participate in the
17	study.
18	All private high schools require a tuition fee about 10,000 USD/year compared

- to public/government school which require none. Our selection process might have
- 2 induced a bias in relation to social economy states and prevalence of DED. Further
- 3 study looking to differences of DED and CL use prevalence in randomly selected
- 4 private and public high schools need to be conducted. One other bias was that four out
- of five private schools were boys only. We believed that further sex matched studies
- 6 should be carried out.
- In summary, we found dry eye disease to be common in the Japanese private
- 8 high school students. Our present study represents the largest epidemiologic data from
- 9 Japan and in the world describing the prevalence of dry eye syndrome in high schools
- and its relationship to the aforementioned risk factors. Although further studies are
- 11 needed to increase our understanding of the significance of this important public health
- problem, the results of our study may be of guidance for specific precautions such as
- provision of education, information and guidance on CL wear related problems and
- 14 their management in high school students.

1 Acknowledgements

- 2 The authors would like to thank Mr. Katunori Shimada for his professional
- 3 assistance in statistical analysis and Mr. Koichi Murayama for his excellent help.

Reference

1

- 2 1. Michael A Lemp, Christophe Baudouin, Jules Baum, MD et al. The Definition and
- 3 Classication of Dry Eye Disease. Report of the Definition and Classification
- 4 Subcommittee of the International Dry Eye Work Shop (2007). Ocul Surf 2007:5;75-92
- 5 2.Schaumberg DA, Sullivan DA, Buring JE, et al. Prevalence of dry eye
- 6 syndrome among US women. Am J Ophthalmol 2003:136;318-26
- 7 3. Miljanovic B et al. Prevalence and risk factors for dry eye syndrome among older
- 8 men in the United States. IOVS 2007;ARVO E-Abstract 4293
- 9 4. Schein OD, Hochberg MC, Munoz B, et al. Dry eye and dry mouth in the elderly: a
- population-based assessment. Arch Intern Med 1999;159:1359-63
- 5. Schein OD, Munoz B, Tielsch JM, et al. Prevalence of dry eye among the elderly.
- 12 Am J Ophthalmol 1997;124:723-8
- 13 6. Munoz B, West SK, Rub in GS, et al. Causes of blindness and visual impairment in a
- 14 population of older Americans: The Salisbury Eye Evaluation Study. Arch Ophthalmol
- 15 2000;118:819-25
- 16 7. Moss SE, Klein R, Klein BE. Prevalence of and risk factors for dry eye syndrome.
- 17 Arch Ophthalmol 2000;118:1264-8
- 8. Christen W G, Manson JE, Glynn RJ, et al. Low-dose aspirin and risk of

- cataract and sub types in a randomiz ed trial of US physicians. Ophthalmic Epidemiol
- 2 1998;5:133-42
- 9. Christen W G, Gaziano JM, Hennekens CH. Design of Physicians. Health Study II. A
- 4 randomized trial of beta-carotene, vitamins E and C, and multivitamins, in prevention of
- 5 cancer, cardiovascular disease, and eye disease, and review of results of completed trials.
- 6 Ann Epidemiol 2000;10:125-34
- 7 10. Chia EM, Mitchell P, Rochtchina E, et al. Prevalence and associations of dry eye
- 8 syndrome in an older population: the Blue Mountains Eye Study. Clin Experiment
- 9 Ophthalmol 2003;31:229-32
- 10 11. McCarty CA, Bansal AK, Livingston PM, et al. The epidemiology of dry eye in
- 11 Melbourne, Australia. Ophthalmology 1998;105:1114-9
- 12. Lin PY, Tsai SY, Cheng CY, et al. Prevalence of dry eye among an elderly
- 13 Chinese population in Taiwan: the Shihpai Eye Study. Ophthalmology
- 14 2003;110:1096-101
- 15 13. Lee AJ, Lee J, Saw SM, et al. Prevalence and risk factors associated with dry eye
- symptoms: a population based study in Indonesia. Br J Ophthalmol 2002;86:1347-51
- 17 14. Schaumberg DA, Buring JE, Sullivan DA et al. Hormone replacement therapy and
- 18 dry eye syndrome. JAMA. 2001;286:2114-2119.

- 1 15) Gulati A. Sullivan R, Buring JE et al. Validation and repeatability of short
- 2 questionnaire for dry eye syndrome. Am J Ophthalmol. 2006;142:125-131.
- 3 16) Miljanovic B. Dana R, Sullivan DA et al. Impact of dry eye syndrome on
- 4 vision-related quality of life. Am J Ophthalmol 2007; 143:409-415.
- 5 17. Farris RL. The dry eye: its mechanisms and therapy, with evidence that contact lens
- 6 is a cause. CLAO J 1986;12:234-46
- 7 18. Nichols JJ, Z iegler C, Mitchell GL, Nichols KK. Self-reported dry eye disease
- 8 across refractive modalities. Invest Ophthalmol Vis Sci 2005;46:1911
- 9 19. Brennan NA, Efron N. Symptomatology of HEMA contact lens wear. Optom Vis
- 10 Sci 1989;66:834-8
- 20. Doughty MJ, Fonn D, Richter D, et al. A patient questionnaire approach to
- 12 estimating the prevalence of dry eye symptoms in patients presenting to optometric
- practices across Canada. Optom Vis Sci 1997;74:624-31
- 14 21. Vajdic C, Holden BA, et al. The frequency of ocular symptoms during spectacle and
- daily soft and rigid contact lens wear. Optom Vis Sci 1999;76:705-11
- 16 22. Begley CG, Caffery B, Nichols KK, Chalmers R. Responses of contact lens wearers
- to a dry eye survey. Optom Vis Sci 2000;77:40-6

Table 1. Prevalence of Clinically Diagnosed Dry Eye and Severe Symptoms of Dry Eye

	Number of	Prevalence							
	DES*	Estimates	95% Confidence Interv						
Clinically Diagnosed Dry Eye									
Men	123/2848	4.3%	(3.9%	-	4.6%)		
Women	47/585	8.0%	(7.4%	-	8.4%)		
Severe Symptoms of Dry Eye									
Men	599/2848	21.0%	(20.1%	-	21.8%)		
Women	143/585	24.4%	(23.9%	-	25.0%)		

Table 2. Logistic Regression Model of Predictors of the Prevalence of Clinically Diagnosed Dry Eye Syndrome

	Number of	Nu	mber with	Univariate					Multivariate								
Variable	MEN		DES		Cruda	e Odds F	Ratio (1	95%CI)		P-value		Adjust	ted Odds	Ratio	(95%CI)		P-vatue
	(n=2,848)		(n=123)														
Contact le	ะกร																
No	1,844	39	(2.1%)	1.0							1.0						
SCL	971	81	(8.3%)	4.2	(2.9	-	6.2)	<0.001	4.2	(2.8	-	6.2)	0.019
HCL	33	3	(9.1%)	4.6	(1.4	-	15.8)	<0.001	4.4	(1.3	-	15.4)	<0.001
	Number		mber with														
	of	Nu	mber with				Univ	rariate						Multi	ivariate		
Variable	WOMEN		DES	Cru	de C	odds F	Ratio	(95%0	:15	P-value	Adjusted Odds Ratio (95%CI) P-v				<i>P</i> -value		
	(n=585)		(n=47)					(00.00									
Contact le	ens																
No	291	9	(3.1%)	1.0		•					1.0						
SCL	267	36	(13.5%)	4.9	(2.3	-	10.3)	<0.001	4.9	(2.3	-	10.3)	<0.001
HCL	27	2	(7.4%)	2.5	(0.5	-	12.2)	<0.001	2.5	(0.5		12.2)	<0.001

CI denotes confidence interval.

Table 3. Logistic Regression Model of Predictors of the Prevalence of Severe Symptoms Dry Eye Syndrome

	Number of	Nun	nber with		Univariate			Multivariate									
Variable	MEN		DES	Crue	de C	Odds F	Ratio	(95%0	en	<i>P</i> -value	Adiu	sted	Odds	Rati	io (95%	.CI)	<i>P</i> -value
	(n=2,848)	(1	=599)														
Contact le	ens																
No	1,844	230	(12.5%)	1.0							1.0						
SCL	971	360	(37.1%)	4.1	(3.4	-	5.0)	<0.001	4.6	(3.8	-	5.7)	<0.001
HCL	33	9	(27.3%)	2.6	(1.2	-	5.7)	0.015	2.6	(1.1	-	5.9)	0.029
	Number of	Nun	nber with				Univ	ariate						Multi	variate		
Variable	WOMEN		DES	Cru	de (Odds F	Ratio	(95%0	:I)	<i>P</i> -value	Adju	sted	Odds	Rati	io (95%	CI)	₽ vatue
	(n=585)	(r	=143)														
Contact le	ens																
No	291	33	(11.3%)	1.0							1.0						
		100	(37.5%)	4.7	(3.0	_	7.3)	<0.001	5.8	(3.6	-	9.3)	<0.001
SCL	267	100	(37.378)		•												

CI denotes confidence interval.

oriables	Total (N=238)	東京 (N=84)	大阪 (N=79)	祖岡 (N=35)	資惠 (N=40) P-value	e
禮地区						
東京		84(100.0%)		•	. <.001 [[****
大阪 名四	79(33.2%) 35(14.7%)	•	79(100.0%) ·	35(100.0%)	•	
東西	48(16.8%)		:		48(188.8%)	
85(R)	39.7±11.5	37.4±8.2	36.419.0		51.0±15.9 <.001 [*****	
±	163(68.5%)	54(64.3%)	53(67.1%)	23(65.7%)	33(82.5%) 0.210 ([N.S
ライアイ診断 Bはい	56(23.5%)	10(11.9%)	10(12.7%)	4(11.4%)	32(89.9%) <.001 [[*****]
かいえ	182(76.5%)	74(88.1%)		31(88.6%)	8(20.0%)	
不明	*	•	•	•	•	
ライアイ不定 批所重 症度・頻度インデックス 1) 平均値±標準価差	1.8±1.3	1 7+1 2	1 6+1 2	1 341 3	2.8±1.4 <.001 [*****]	
4	26(10.9%)	4(4.8%)			16(40.0%) <.001 [
3	54(22.7%)	18(21.4%)			11(27.5%)	
2	63(26.5%) 38(16.6%)	33(39.3%) 10(11.9%)	19(24.1%) 17(21.5%)		6(15.0%) 2(5.0%)	
0	57(23.9%)	19(22.6%)	20(25.3%)	13(37.1%)		
未回答	•	•	•	•	•	
) 平均値±恒準恒差	1.7±1.3	1.6±1.2	1.4±1.0	1.1±1.1	2.8±1.3 <.001 [*****]	
4 3	19(8.0%) 47(19.7%)	5(6.0%) 16(19.0%)	13(16.5%)	4(11.4%)	14(35.0%) <.001 [14(35.0%)	L
2	64(26.9%)	27(32.1%)	23(29.1%)			
1	48(29.2%)	16(19.0%)	23(29.1%)	5(14.3%)	4(10.0%) 3(7.5%)	
0 未四答	59(24.8%) 1(0.4%)	20(23.8%)	20(25.3%)	16(45.7%)	3(7.5%) 1(2.5%)	
) 平均 益±標準 信差						
)平均包土標準信息 4	6(2.5%)	1.011.0	0.711.0	o.110.9	2.3±1.2 <.001 [*****] 6(15.0%) <.001 [[****
3	27(11.3%)	7(8.3%)	6(7.6%)	1(2.9%) 8(22.9%)	13(32.5%)	
2 1	57(23.9%) 56(23.5%)	23(27.4%) 28(23.8%)	15(19.0%) 24(30.4%)	8(22.9%) 7(20.0%)	11(27.5%) 5(12.5%)	
0	91(38.2%)	33(39.3%)	24(30.4%) 34(43.0%)	19(54.3%)	5(12.5%)	
未四答	1(0.4%)	1(1.2%)	•		•	
) 平均 <u>億±</u> 便準能差	0.9±1.1	0.8±0.9	0.6±0.9	0.5±0.7	2.2±1.4 <.001 [*****]	
4	8(3.4%)	•	•	•	8(20.0%) <.001 [[****
3 2	16(6.7%) 41(17.2%)	3(3.6%) 17(20.2%)	4(5.1%) 9(11.4%)		9(22.5%) 12(30.8%)	
1	54(22.7%)	23(27.4%)	17(21.5%)	11(31.4%)	3(7.5%)	
0 *********	119(50.0%)	41(48.8%)			8(29.0%)	
未四谷	•	•	•	•	•	
i) 平均值±標準信差 4	2.6±1.0 42(17.6%)		2.5±0.8 6(7.6%)	2.4±1.0 4(11.4%)	2.9±1.2 0.116 [N.S] 16(40.0%) 0.062 [r u c
3	92(38.7%)	16(19.0%) 34(40.5%)				L M.3
2	76(31.9%)	23(27.4%)	32(40.5%)	12(34.3%)	9(22.5%)	
1	21(8.8%) 7(2.9%)	9(10.7%) 2(2.4%)	5(6.3%) 1(1.3%)	4(11.4%) 2(5.7%)		
未四答						
5) 平均值主標準信益	1.7±1.3	1.7±1.2	1.3±1.1	1.4±1.1	2.7±1.3 <.001 [*****]	
4	24(10.1%)	7(8.3%)	2(2.5%)	1(2.9%)	14(35.0%) <.001 [
3	41(17.2%)	17(20.2%)	9(11.4%)	3(8.6%)	12(39.0%)	
2	69(29.0%) 49(20.6%)	24(28.6%) 19(22.6%)	25(31.6%) 18(22.8%)	13(37.1%) 9(25.7%)	7(17.5%) 3(7.5%)	
0	55(23.1%)	17(20.2%)	25(31.6%)	9(25.7%)	4(10.0%)	
未回答	•	•	•	•	•	
7) 平均額±標準備差	1. 6± 1.2	1.7±1.2			1.9±1.3 0.060 [N.S]	
4 3	16(6.7%) 42(17.6%)	6(7.1%) 18(21.4%)	3(3.8%) 12(15.2%)	2(5.7%) 3(8.6%)	5(12.5%) 0.068 [9(22.5%)	[N.S
2	54(22.7%)	18(21.4%)	14(17.7%)	11(31.4%)	11(27.5%)	
1	83(34.9%)	30(35.7%)	32(40.5%)	13(37.1%)	8(20.0%)	
0 未回答	43(18.1%)	12(14.3%)	18(22.8%)	6(17.1%)	7(17.5%)	
8) 平均 <u>値</u> ±標準信息 4	1.5±1.1 8(3.4%)	1.5±1.2 5(6.0%)	1.4±1.0	1.3±1.1 1(2.9%)	1.7±1.1 0.541 [W.S] 2(5.0%) 0.628 [
3	37(15.5%)	13(15.5%)	13(16.5%)		7(17.5%)	
2	64(26.9%)	23(27.4%)	21(26.6%)	10(28.6%)	10(25.0%)	
1	82(34.5%) 47(19.7%)	24(28.6%) 19(22.6%)	30(38.0%) 15(19.0%)	11(31.4%) 9(25.7%)		
未回答					•	
)平均値±標準信差	0.7±1.0	0.7±0.9	0 6+0.9	0.4+0.7	1.3±1.4 <.001 [*****]	
4	5(2.1%)	1(1.2%)			3(7.5%) 0.007 [
3 2	13(5.5%) 28(11.8%)	2(2.4%) 14(16.7%)	4(5.1%) 5(6.3%)		7(17.5%) 5(12.5%)	
1	52(21.8%)	22(26.2%)	19(24.1%)	5(14.3%)		
9 ********	138(58.0%)	45(53.6%)	50(63,3%)	26(74.3%)	17(42.5%)	
未四答	2(0.8%)	•	•	•	2(5.0%)	
10) 平均值主標準信息				1.4±1.0	2.3±1.3 0.002 [***]	
4 3	14(5.9%) 48(20.2%)	5(6.0%) 17(20.2%)	1(1.3%) 14(17.7%)	6(17.1%)	8(20.0%) 0.004 11(27.5%)	L
2	74(31.1%)	30(35.7%)	23(29.1%)	10(28.6%)	11(27.5%)	
1	66(27.7%) 35(14.7%)	20(23.8%) 11(13.1%)	30(38.0%) 11(13.9%)	12(34.3%) 7(20.0%)		
6 未回答	35(14.7%) 1(0.4%)	11(13.1%)	11(13.9%)	/(20.6%) ·	6(15.0%)	
11) 平均值±複準信差					1.8±1.4 0.003 [***]	
11) 平均包主体平信息 4	1.3±1.2	1.4±1.2 4(4.8%)	1(1.3%)		8(20.0%) 0.022 [
			40743 700		4(10.0%)	
3	29(12.2%)	15(17.9%)				
3 2 1	29(12.2%) 50(21.0%) 75(31.5%)	15(17.9%) 15(17.9%) 24(28.6%)	17(21.5%) 28(35.4%)	8(22.9%)	10(25.0%)	

未四答				_	_	
12) 平均值主要準信差	0.6±1.2	0.6±1.2	0.4±1.0	0.3±0.7	2.9±1.5 <.001 [*****7
4	4(1.7%)	1(1.2%)			3(7.5%)	<.001 [*****]
3	11(4.6%)	4(4.8%)	5(6.3%)		2(5.0%)	
2 1	9(3.8%) 4(1.7%)	3(3.6%) 2(2.4%)	1(1.3%)	- 4(11.4%) 2(5.7%)	1(2.5%)	
0	90(37.8%)	29(34.5%)	36(45.6%)	24(68.6%)	1(2.5%)	
未四答	120(50.4%)	45(53.6%)	37(46.8%)	5(14.3%)	33(82.5%)	
視機能障害不定整所重症度・頻度インデックス 13) 平均値±標準偏差	1.611.2	1.4±1.2	1. 61 1.1	1.2+1.2	2.9±1.5 0.040 [• 1
4	16(6.7%)	3(3.6%)	4(5.1%)	1(2.9%)	8(29.8%)	0.065 [N.S]
3	42(17.6%)	17(20.2%)	12(15.2%)	5(14.3%)	8(29.0%)	
2	59(24.8%)	15(17.9%)	28(35.4%)	7(20.0%)	9(22.5%)	
1 8	61(25.6%) 5 0(25.2%)	27(32.1%) 22(26.2%)	21(26.6%) 14(17.7%)	9(25.7%) 13(37.1%)	4(10.0%) 11(27.5%)	
未四答	•	٠	•	•	•	
14) 平均值主信準信差	1.4±1.3	1.2±1.2	1.2±1.1	1.3±1.2	2.3±1.6 <.001 [
4	22(9.2%)	5(6.0%)	1(1.3%)	3(8.6%)	13(32.5%)	0.001 [***]
3 2	30(12.6%) 53(22.3%)	9(10.7%) 20(23.8%)	10(12.7%) 20(25.3%)	2(5.7%) 7(20.0%)	9(22.5%) 6(15.0%)	
i	52(21.8%)	17(20.2%)	20(25.3%)	14(40.0%)	1(2,5%)	
0 未回答	81(34.0%)	33(39.3%)	28(35.4%)	9(25.7%)	11(27.5%)	
	•	•	•	•	•	_
15) 平均數±標準福差 4	0.8±1.1	0.5±0.9 1(1.2%)	0.5±0.7	0.5±0.6	2.1±1.5 <.001 [10(25.0%)	<.001 [*****]
3	11(4.6%) 16(6.7%)	6(7.1%)	1(1.3%)	:	9(22.5%)	(.oci []
2	16(6.7%)	3(3.6%)	6(7.6%)	1(2.9%)	6(15.0%)	
1 0	58(24.4%) 137(57.6%)	18(21.4%) 56(66.7%)	21(26.6%) 51(64.6%)	14(40.0%) 20(57.1%)	5(12.5%) 10(25.0%)	
未四答	137(37.00)	30(00.7%)	31(64.6%)			
16) 平均值±標準福意	0.5±0.9	0.3±0.7	0.5±0.7	0.2±0.5	1.7±1.6 <.991 [•••••
4	3(1.3%)			•	3(7.5%)	<.001 [*****]
3	7(2.9%) 15(6.3%)	1(1.2%) 6(7.1%)	5(6.3%)	1(2.9%)	6(15.0%) 3(7.5%)	
2 1	15(6.3%) 30(12.6%)	9(10.7%)	14(17.7%)	6(17.1%)	1(2.5%)	
0	127(53.4%)	61(72.6%)	30(38.0%)	27(77.1%)	9(22.5%)	
未四答	56(23.5%)	7(8.3%)	30(38.0%)	1(2.9%)		
17) 平均衡±保準信差	1.1±1.3	1.1±1.2	0.7±0.9			
4 3	18(7.6%) 17(7.1%)	6(7.1%) 6(7.1%)	2(2.5%) 1(1.3%)	1(2.9%)	9(22.5%) 10(25.0%)	<.001 [*****]
2	35(14.7%)	13(15.5%)	11(13.9%)	6(17.1%)	5(12.5%)	
1 0	60(25.2%)	23(27.4%)	24(30.4%)	10(28.6%) 18(51.4%)	3(7.5%) 6(15.8%)	
未四答	101(42.4%) 7(2.9%)	36(42.9%)	41(51.9%)	10(31.44)	7(17.5%)	
18) 平均額±標準信急	0.8±1.0	0.7±0.9	0.5±0.7	0.5±0.8	1.7±1.5 <.001 [*****7
4	7(2.9%)	,		•	7(17.5%)	<.001 [*****]
3	13(5.5%)	5(6.0%)	1(1.3%)	1(2.9%)	6(15.0%)	
2	25(10.5%) 66(27.7%)	9(10.7%) 26(31.0%)	5(6.3%) 25(31.6%)	3(8.6%) 8(22.9%)	8(20.0%) 7(17.5%)	
0	127(53.4%)	44(52.4%)	48(60.8%)	23(65.7%)	12(30.0%)	
未回答	•	•	•	•	•	
19) 平均銀±標準備差	0.5±0.9	0.5±0.8	0.4±0.7	0.7±1.0	0.6±1.2 0.520 [
19) 平均值±標準檔整 4 3	0.5±0.9 3(1.3%) 6(2.5%)	0.5±0.8 3(3.6%)	0.4±0.7	8.7±1.6 1(2.9%) 1(2.9%)	0.6±1.2 0.520 [2(5.6%) 2(5.6%)	
4 3 2	3(1.3%) 6(2.5%) 25(10.5%)	3(3.6%) 9(10.7%)	9(11.4%)	1(2.9%) 1(2.9%) 5(14.3%)	2(5.0%) 2(5.0%) 2(5.0%)	
4 3 2 1	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%)	3(3.6%) 9(10.7%) 16(19.0%)	9(11.4%) 14(17.7%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%)	
4 3 2	3(1.3%) 6(2.5%) 25(10.5%)	3(3.6%) 9(10.7%)	9(11.4%)	1(2.9%) 1(2.9%) 5(14.3%)	2(5.0%) 2(5.0%) 2(5.0%)	
4 3 2 1	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%)	9(11.4%) 14(17.7%) 56(70.9%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.6%) 3(7.5%)	0.652 [N.S]
4 3 2 1 0 末四各 20) 平均値±標準信差 4	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%) 0.6±1.0 6(2.5%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.6±0.9 1(1.2%)	9(11.4%) 14(17.7%) 56(70.9%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(79.0%) 3(7.5%) 1.341.4 <.001 5(12.5%)	0.652 [N.S]
4 3 2 1 0 未函答 20) 平均敏±標準偏差 4 3	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.3%) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.660.9 1(1.2%) 3(3.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 0.3±9.6	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 1.341.4 <.001 5(12.5%) 3(7.5%)	0.652 [N.S]
4 3 2 1 0 末四答 20) 平均値±標準信差 4 3 2	3(1.39) 6(2.59) 25(10.58) 39(16.48) 160(67.20) 5(2.18) 0.6±1.0 6(2.59) 9(3.88) 33(13.98) 30(12.68)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.6±0.9 1(1.2%) 3(3.6%) 11(13.1%) 15(17.9%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) . 0.3±0.6 . 3(8.6%) 5(14.3%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 1.3±1.4 <.001 5(12.5%) 3(7.5%) 9(22.5%) 4(18.6%)	0.652 [N.S]
4 3 2 1 0 未四答 20) 平均如土標準偏差 4 3 2	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%)	3(3.6%) 9(10.7%) 16(19.8%) 54(64.3%) 2(2.4%) 0.640.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 6(17.1%) 22(62.9%) 0.3±9.6 3(8.6%) 5(14.3%) 27(77.1%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 1.3±1.4 <.001 5(12.5%) 3(7.5%) 9(22.5%) 4(18.6%)	0.652 [N.S]
4 3 2 1 0 未四答 20) 平均值±標準偏差 4 3 2 1 0 未四答	3(1.39) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.26) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.680.9 1(1.2%) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 6(17.1%) 22(62.9%) 0.3±0.6 3(8.6%) 5(14.3%) 27(77.1%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 1.3±1.4 <.001 5(12.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%)	e.652 [N.S]
4 3 2 1 0 未四答 20) 平均敏主概率偏差 4 3 2 1 0 未四答	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.600.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 0.3±0.6 3(8.6%) 5(14.3%) 27(77.1%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 1.3±1.4 <.001 5(12.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) .	e.652 [N.S]
4 3 2 1 0 未四各 20) 平均衛士標準福差 4 3 2 1 0 未四各	3(1.39) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.26) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%)	3(3.6%) 9(10.7%) 16(19.8%) 54(64.3%) 2(2.4%) 0.600.9 1(13.1%) 15(17.9%) 52(61.9%) 2(2.4%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) . 0.3±0.6 . 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.6%) 3(7.5%) 3(7.5%) 1.3±1.4 <.801 5(12.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) 2.6±1.5 0.043 9(22.5%)	e.652 [N.S]
4 3 2 1 0 未四答 20) 平均値±標準福差 4 3 2 1 0 未四答 21) 平均値±標準個差 4 3	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.6%)	3(3.6%) 9(10.7%) 16(19.8%) 54(64.3%) 2(2.4%) 0.660.9 1(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.8%) 13(15.5%) 23(27.4%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 6(17.1%) 22(62.9%) 0.3±0.6 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(40.6%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 4(10.0%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) . 2.0±1.5 0.043 9(22.5%) 8(20.0%) 6(15.0%)	e.652 [N.S]
4 3 2 1 0 末四答 20) 平均衛士標準福差 4 3 2 1 0 末四答 21) 平均衛士標準鑑差 4 3	3(1.39) 6(2.53) 25(10.58) 39(16.48) 160(67.25) 5(2.136) 0.6±1.0 6(2.53C) 9(3.83) 33(13.98) 30(12.68) 158(66.48) 2(0.88) 1.5±1.3 17(7.18) 36(15.18) 69(29.98) 45(18.98)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.668.9 1(1.2%) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.8%) 13(15.5%)	9(11.4%) 14(17.7%) 56(78.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(40.6%) 2(5.7%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) 2.0±1.5 0.043 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%)	e.652 [N.S]
4 3 2 1 0 末四答 20) 平均值立標準鑑差 4 3 2 1 0 末四答 21) 平均值立標準鑑差 4 3 2 1	3(1.3%) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.2%) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.6%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.680.9 1(1.26) 3(3.6%) 11(13.1%) 52(61.9%) 2(2.4%) 1.41.2 4(4.6%) 13(15.5%) 23(27.4%) 16(19.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(40.6%) 2(5.7%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) 2.0±1.5 0.043 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%)	e.652 [N.S]
4 3 2 1 0 末四答 20) 平均衛士標準福差 4 3 2 1 0 未四答 21) 平均衛士標準福差 4 3 2 1 0	3(1.39) 6(2.5%) 25(10.5%) 39(16.4%) 160(67.26) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.649.9 1(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.8%) 13(15.5%) 23(27.4%) 16(19.0%) 28(33.3%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(40.6%) 2(5.7%) 13(37.1%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.6%) 3(7.5%) 3(7.5%) 5(12.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) . 2.6±1.5 0.843 (9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) .	e.652 [N.S]
4 3 2 1 0 末型音 20) 平均値2標準程差 4 3 2 1 0 末型音 21) 平均値2標準程差 4 3 2 1 0 末型音 22) 平均値2標準程差 4 3 2 2 1 0 末型音 22) 平均値2標準程差 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3(1.39) 6(2.50) 25(10.50) 39(16.40) 160(67.20) 5(2.10) 0.6±1.0 6(2.50) 9(3.80) 33(13.90) 30(12.60) 158(66.40) 2(0.80) 1.5±1.3 17(7.10) 36(15.10) 69(29.00) 45(18.90) 71(29.80)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.688.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.6%) 13(15.%) 23(27.4%) 16(19.6%) 28(33.3%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 6.3±0.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 13(37.1%)	2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) 2.0±1.5 0.043 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6.15.0%) 9(22.5%) 8(20.0%) 6.25.0%) 9(22.5%) 8(20.0%) 6.25.0%)	0.652 [N.S]
4 3 2 1 0 未四答 20) 平均値が標準偏差 4 3 2 1 0 未四答 21) 平均値が標準偏差 4 3 2 1 0 末四答 21) 平均値が標準偏差 4 3 2 1 0 末四答 21) 平均値が標準偏差 4 3 2 1 0 末回答 4	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.8%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.441.2 4(4.6%) 13(15.5%) 23(27.4%) 1.6(19.6%) 28(33.3%) 1.341.2 1(1.2%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 5(17.1%) 22(62.9%) 0.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(49.6%) 2(5.7%) 13(37.1%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) . 2.6±1.5 0.043 9(22.5%) 6(15.6%) 9(22.5%) 6(15.6%) 9(22.5%) 6(20.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6.15.6%) 9(22.5%) 8(28.6%) 6.15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%)	0.652 [N.S]
4 3 2 1 0 未型音 20) 平均値立標準程差 4 3 2 1 0 未型音 21) 平均値立標準程差 4 3 2 1 0 未型音 22) 平均値立標準程差 4 3 2 2 1 0 7 2 2 2 2 3 2 4 3 2 4 4 3 2 4 4 4 3 2 2 1 0 2 2 1 0 2 2 2 1 2 2 2 2 2 2 2 2	3(1.39) 6(2.5x) 25(10.5x) 39(16.4x) 160(67.2t) 5(2.1x) 0.6±1.0 6(2.5x) 9(3.8x) 33(13.9x) 30(12.6x) 158(66.4x) 2(0.8x) 1.5±1.3 17(7.1x) 36(15.1x) 69(29.0x) 71(29.8x) 1.4±1.3 19(8.0x) 38(16.0x) 48(20.2x)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.680.9 1(1.26) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.8%) 13(15.%) 23(27.4%) 16(19.6%) 28(33.3%) 1.311.2 1(1.2%) 15(17.9%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 20(25.3%)	1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 6.3±0.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 13(37.1%) 1.1±1.0 5(14.3%) 4(11.4%)	2(5.8%) 2(5.8%) 2(5.8%) 3(7.5%) 28(78.8%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.8%) 19(47.5%) 2.0±1.5 0.043 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6.15.0%) 9(22.5%) 8(20.0%) 6.15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 9(22.5%)	0.652 [N.S]
4 3 2 1 0 末四客 20) 平均値±標準偏差 4 3 2 1 0 末四答 21) 平均値±標準個差 4 3 2 1 0 末四番	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.8%) 38(16.6%) 48(20.2%) 52(21.8%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.6%) 13(15.5%) 23(27.4%) 1.4±1.2 1(1.2%) 15(17.9%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 25(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(18.1%) 20(25.3%) 16(20.3%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 22(62.9%) 0.3±9.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(49.6%) 2(5.7%) 13(37.1%) 1.1±1.8 5(14.3%) 5(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) . 2.6±1.5	0.652 [N.S]
4 3 2 1 0 未型音 20) 平均値立標準程差 4 3 2 1 0 未型音 21) 平均値立標準程差 4 3 2 1 0 未型音 22) 平均値立標準程差 4 3 2 2 1 0 7 2 2 2 2 3 2 4 3 2 4 4 3 2 4 4 4 3 2 2 1 0 2 2 1 0 2 2 2 1 2 2 2 2 2 2 2 2	3(1.39) 6(2.5x) 25(10.5x) 39(16.4x) 160(67.2t) 5(2.1x) 0.6±1.0 6(2.5x) 9(3.8x) 33(13.9x) 30(12.6x) 158(66.4x) 2(0.8x) 1.5±1.3 17(7.1x) 36(15.1x) 69(29.0x) 71(29.8x) 1.4±1.3 19(8.0x) 38(16.0x) 48(20.2x)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.680.9 1(1.26) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.8%) 13(15.%) 23(27.4%) 16(19.6%) 28(33.3%) 1.311.2 1(1.2%) 15(17.9%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 20(25.3%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 22(62.9%) 0.3±9.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(49.6%) 2(5.7%) 13(37.1%) 1.1±1.8 5(14.3%) 5(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%) 1(14.3%)	2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) . 2.6±1.5	0.652 [N.S]
4 3 2 1 0 未四答 20) 平均額±標準福差 4 3 2 1 0 未四答 21) 平均額±標準福差 4 3 2 1 0 未四答 21 0 未四答 21 1 0 未四答 21 1 0 未四答 4 3 2 2 1 0 未四答 4 3 2 2 1 0 未四答 4 3 2 1 0 未四答 4 3 2 2 1 0 未四答 4 3 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.26) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 1.58(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.680.9 1(1.2%) 52(61.9%) 52(61.9%) 52(61.9%) 52(4.4%) 1.4±1.2 4(4.8%) 13(15.5%) 23(27.4%) 1.6(19.0%) 28(33.3%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 29(25.3%) 16(20.3%) 34(43.0%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 1(440.0%) 2(5.7%) 13(37.1%) 4(11.4%) 15(42.9%) 11(31.4%)	2(5.6%) 2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.6%) 3(7.5%) 3(7.5%) 5(12.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) 2.6±1.5 0.643 (90) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 10(25.6%) 10(25.6%) 5(12.5%) 10(25.6%) 5(12.5%) 10(25.6%) 10(25.6%)	e.652 [N.S] [****] 0.001 [****] 0.101 [N.S]
4 3 2 1 0 末四音 20) 平均値±標準偏差 4 3 2 1 0 末四音 21) 平均値±標準偏差 4 3 2 1 0 末四音	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.26) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 1.58(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%)	3(3.6%) 9(10.7%) 16(19.0%) 54(64.3%) 2(2.4%) 0.680.9 1(1.2%) 52(61.9%) 52(61.9%) 52(61.9%) 52(4.4%) 1.4±1.2 4(4.8%) 13(15.5%) 23(27.4%) 1.6(19.0%) 28(33.3%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 20(25.3%) 16(20.3%) 34(43.0%) 1.2±1.2 1(1.3%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 4(11.4%) 15(42.9%) 11(31.4%) 1.3±1.8	2(5.0%) 2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(78.0%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.0%) 19(47.5%) 2.0±1.5	e.652 [N.S] e.061 [] e.061 [N.S]
4 3 2 1 0	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 1.6±1.3 19(8.0%) 51(34.0%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.6%) 13(15.5%) 23(27.4%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) . 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) . 1.1±1.1 1(1.3%) 8(10.1%) 8(10.1%) 20(25.3%) 16(20.3%) 34(43.8%) 1.2±1.2 1(1.3%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) 8.3±0.6 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 1(44.6%) 2(5.7%) 4(11.4%) 1(44.6%) 1(41.4%) 15(42.9%) 11(31.4%) 1.3±1.0	2(5.6%) 2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) . 2.6±1.5	e.652 [N.S] e.061 [] e.061 [N.S]
4 3 2 1 0 末四音 20) 平均値対標準偏差 4 3 2 1 0 末四音 21) 平均値対標準偏差 4 3 2 1 0 末四音	3(1.39) 6(2.53) 25(10.58) 39(16.48) 160(67.25) 5(2.136) 0.6±1.0 6(2.53C) 9(3.83C) 33(13.98) 30(12.68C) 1.5±1.3 17(7.18C) 36(15.18C) 69(29.08C) 1.4±1.3 19(8.08C) 38(16.08C) 48(20.28C) 52(21.88C) 52(21.88C) 52(21.88C) 52(21.88C) 53(34.08C)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.680.9 1(1.26) 3(3.6%) 11(13.1%) 52(61.9%) 2(2.4%) 1.41.2 4(4.6%) 13(15.5%) 23(27.4%) 16(19.6%) 28(33.3%) 1.341.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) . 9.4±0.9 . 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) . 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) . 1.1±1.1 1(1.3%) 8(18.1%) 20(25.3%) 16(20.3%) 34(43.8%) . 1.2±1.2 1(1.3%) 1(21.7%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 6(17.1%) 22(62.9%) . 8.3±0.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 4(11.4%) 15(42.9%) 11(31.4%) . 1.3±1.0 5(14.3%) 8(22.9%)	2(5. 8%) 2(5. 8%) 2(5. 8%) 2(5. 8%) 3(7. 5%) 28(79. 8%) 3(7. 5%) 3(7. 5%) 3(7. 5%) 9(22. 5%) 4(18. 8%) 19(47. 5%) 8(28. 9%) 6(15. 8%) 9(22. 5%) 8(28. 9%) 6(15. 8%) 19(42. 5%) 19(22. 5%) 19(22. 5%) 19(22. 5%) 19(22. 5%) 19(23. 5%) 19(25. 5%) 1	e.652 [N.S] e.061 [] e.061 [N.S]
4 3 2 1 0	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.180) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 38(16.0%) 48(20.2%) 52(21.8%) 81(34.0%) 1.6±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 81(34.0%) 1.6±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 53(26.5%)	3(3.6%) 9(10.7%) 16(19.8%) 54(64.3%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.6%) 13(15.5%) 23(27.4%) 1.5(17.9%) 15(17.9%) 16(19.6%) 28(33.3%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%) 30(35.7%) 1.6±1.2 1(1.2%) 12(27.4%) 18(21.4%) 18(21.4%) 23(27.4%) 18(21.4%) 23(27.4%) 18(21.4%) 23(27.4%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 29(25.3%) 34(43.0%) 1.2±1.2 1(1.3%) 14(17.7%) 16(20.3%) 28(25.3%) 28(35.4%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 22(62.9%) 0.3±9.6 . 3(8.6%) 5(14.3%) 27(77.1%) 1.4±1.3 2(5.7%) 4(11.4%) 14(40.6%) 2(5.7%) 13(37.1%) 1.1±1.0 . 5(14.3%) 5(14.3%) 15(42.9%) 11(31.4%) 5(14.3%) 6(22.9%) 14(40.6%) 8(22.9%)	2(5.6%) 2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 17(42.5%) 18(25.6%) 5(12.5%) 5(12.5%) 18(25.6%) 5(12.5%) 17(42.5%) 18(25.6%) 17(42.5%) 17(42.5%) 18(25.6%) 17(42.5%) 18(25.6%) 17(42.5%) 18(25.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%) 18(26.6%)	e.652 [N.S] e.061 [] e.061 [N.S]
4 3 2 1 0 末四寄 20) 平均値2標準偏差 4 3 2 2 1 0 0 末四寄 21) 平均値2標準偏差 4 3 2 2 1 0 0 末四寄 21) 平均値2標準偏差 4 3 2 2 1 0 0 末回音 思境防子遺症皮・頻度インデックス 22) 平均値2標準偏差 4 3 2 2 1 0 0 末回音 23) 平均値2標準偏差 4 3 2 2 1 0 0 末回音	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.18) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±2.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 1.6±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 52(21.8%) 52(21.8%) 53(24.0%) 58(24.4%) 58(24.4%) 63(26.5%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.6%) 13(15.5%) 23(27.4%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.6±1.2 1(1.2%) 15(17.9%) 11.6±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 10(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(18.1%) 20(25.3%) 34(43.8%) 1.2±1.2 1(1.3%) 16(20.3%) 20(25.3%) 20(25.3%)	1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 2(62.9%) 0.3±9.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(49.6%) 1(37.1%) 1.1±1.8 . 5(14.3%) 4(11.4%) 15(42.9%) 11(31.4%) . 1.3±1.0 .	2(5.6%) 2(5.6%) 2(5.6%) 2(5.6%) 3(7.5%) 28(78.8%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(18.6%) 19(47.5%) 9(22.5%) 8(28.6%) 6(15.6%) 9(22.5%) 17(42.5%) 18(25.6%) 5(12.5%) 2(5.6%) 5(12.5%) 2(5.6%) 5(12.5%) 2(5.6%) 5(12.5%) 2(5.6%) 6(15.6%) 9(22.5%) 8(28.6%) 5(12.5%) 2(5.6%) 6(15.6%) 17(42.5%) 18(25.6%) 17(42.5%) 18(25.6%) 19(25.6	e.652 [N.S] [****] e.061 [****] <.061 [*****] <.061 [*****]
4 3 2 1 1 0 末型答 20) 平均値が標準偏差 4 3 2 1 0 0 末四音 21) 平均値が標準偏差 4 3 2 1 0 0 末四音 那類切子重症度・頻度インデックス 22) 平均値が標準偏差 4 3 2 1 0 0 末四音 23) 平均値が標準偏差 4 3 2 1 0 0 末四音 23) 平均値が標準偏差 4 3 2 1 0 0 末四音 24) 平均値が標準偏差 4 3 2 1 0 0 末四音 24) 平均値が標準偏差 4 3 2 1 0 0 末四音	3(1.39) 6(2.5x) 25(10.5x) 39(16.4x) 160(67.2b) 5(2.1x) 0.6±1.0 6(2.5x) 9(3.8x) 33(13.9x) 33(13.9x) 33(13.9x) 158(66.4x) 2(0.8x) 1.5±1.3 17(7.1x) 36(15.1x) 69(29.0x) 45(18.9x) 71(29.8x) 1.4±1.3 19(8.0x) 38(16.0x) 48(20.2x) 52(21.8x) 81(34.0x) 1.6±1.3 19(8.0x) 50(21.0x)	3(3.6%) 9(10,7%) 16(19,6%) 54(64.3%) 2(2.4%) 0.660.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.8%) 13(15.5%) 13(15.5%) 13(15.5%) 13(15.5%) 15(17.9%) 15(17.9%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.611.2 1(1.2%) 23(27.4%) 11.611.2 1(1.2%) 23(27.4%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.711.3	9(11.4%) 14(17.7%) 56(70.9%) . 9.4±0.9 . 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) . 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) . 1.1±1.1 1(1.3%) 8(18.1%) 20(25.3%) 16(20.3%) 34(43.8%) . 1.2±1.2 1(1.3%) 28(25.3%) 16(20.3%) 28(35.4%) .	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 22(62.9%) 8.3±9.6 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 1.4±1.3 2(5.7%) 4(11.4%) 15(42.9%) 11(31.4%) 1.1±1.8 5(14.3%) 5(14.3%) 4(11.4%) 15(42.9%) 11(31.4%) 1.3±1.8 5(14.3%) 8(22.9%) 14(49.6%) 8(22.9%) 1.5±1.1	2(5. eW) 2(5. eW) 2(5. eW) 2(5. eW) 3(7. 5W) 28(79. eW) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 4(18. eW) 19(47. 5W) 4(18. eW) 19(47. 5W) 6(15. eW) 9(22. 5W) 8(20. eW) 6(15. eW) 5(12. 5W) 5(12. 5W) 17(42. 5W) 5(12. 5W) 5(12. 5W) 5(12. 5W) 6(15. eW) 6(15. eW) 17(42. 5W) 6(15. eW) 6(15. eW) 17(42. 5W) 6(15. eW) 6(15. eW) 17(42. 5W) 8(20. eW) 6(15. eW) 17(42. 5W) 8(20. eW) 6(15. eW) 17(42. 5W) 8(20. eW) 17(42. 5W) 8(20. eW) 8(20. eW) 17(42. 5W) 8(20. eW) 17(42. 5W) 8(20. eW) 8(20. eW) 17(42. 5W) 8(20. eW)	e.652 [N.S] e.061 [····] e.061 [····] <.001 [····]
4 3 2 1 0 末四答 20) 平均値±標準億差 4 3 2 1 0 末四答 21) 平均値±標準億差 4 3 2 1 0 末四答	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.18) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±2.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 1.6±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 52(21.8%) 52(21.8%) 53(24.0%) 58(24.4%) 58(24.4%) 63(26.5%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 54(64.3%) 2(2.4%) 9.668.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.6%) 13(15.5%) 23(27.4%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.6±1.2 1(1.2%) 15(17.9%) 11.6±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%)	9(11.4%) 14(17.7%) 56(78.9%) . 9.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 69(75.9%) . 1.4±1.1 2(2.5%) 11(13.9%) 26(23.9%) 18(22.8%) 22(27.8%) . 1.1±1.1 1(1.3%) 8(18.1%) 29(25.3%) 34(43.9%) . 1.2±1.2 1(1.3%) 16(20.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%) 28(25.3%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 5(17.1%) 22(62.9%) 8.3±9.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 4(11.4%) 15(42.9%) 1(31.4%) 5(14.3%) 8(22.9%) 14(40.0%) 8(22.9%) 1.5±1.1 1(2.9%)	2(5. eW) 2(5. eW) 2(5. eW) 2(5. eW) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 4(18. eW) 19(47. 5W) 4(18. eW) 19(47. 5W) 6(15. eW) 6(15. eW) 6(15. eW) 6(15. eW) 6(15. eW) 5(12. 5W) 19(22. 5W) 8(28. eW) 6(15. eW) 5(12. 5W) 5(12. 5W) 2(5. eW) 6(15. eW) 17(42. 5W) 2(5. eW) 6(15. eW) 17(42. 5W) 2(5. eW) 6(15. eW) 17(42. 5W) 8(28. eW) 6(15. eW) 6(15. eW) 17(42. 5W) 8(28. eW) 6(15. eW) 6	e.652 [N.S] [****] e.061 [****] <.061 [*****] <.061 [*****]
4 3 2 1 0 末四答 20) 平均値±標準編整 4 3 2 1 0 末四答 21) 平均値±標準編整 4 3 2 1 0 末四答 22) 1 0 末四答 23) 平均値±標準解整 4 3 2 1 0 未四答 23) 平均値±標準解差 4 3 2 1 0 未四答 24) 平均値±標準解差 4 3 2 1 0 0 未四答 2 1 0 0 未四答 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3(1.39) 6(2.50) 25(10.58) 39(16.48) 160(67.20) 5(2.136) 6.6±1.0 6(2.50) 9(3.80) 33(13.90) 30(12.68) 158(66.48) 2(0.88) 1.5±1.3 17(7.13) 36(15.13) 69(29.08) 45(18.90) 71(29.83) 1.4±1.3 19(8.09) 38(16.09) 38(16.09) 38(16.09) 48(20.28) 52(21.83) 81(34.0%) 1.6±1.3 19(8.09) 38(16.09) 48(20.28) 52(21.83) 81(34.0%) 48(20.28) 58(24.48) 63(25.58) . 1.7±1.3 26(10.98) 51(21.48) 51(21.48)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.640.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.4±1.2 4(4.8%) 13(15.5%) 23(27.4%) 16(19.6%) 22(33.3%) 1.3±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.5±1.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 19(22.6%) 11.5±1.2 1(1.2%) 23(27.4%) 19(22.6%) 1.7±1.3 4(4.8%) 24(28.6%) 1.7±1.3	9(11.4%) 14(17.7%) 56(70.9%) . 9.4±0.9 . 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) . 1.4±1.1 2(2.5%) 11(13.9%) 26(23.9%) 18(22.8%) 22(27.8%) . 1.1±1.1 1(1.3%) 8(18.1%) 29(25.3%) 16(20.3%) 34(43.9%) . 1.2±1.2 1(1.3%) 28(25.3%)	1(2.9%) 1(2.9%) 1(2.9%) 5(14.3%) 5(14.3%) 22(62.9%) 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 1(41.4%) 1(41.4%) 1(41.4%) 1(41.4%) 1(42.9%) 1(31.4%) 5(14.3%) 1(42.9%) 1(31.4%) 5(14.3%) 1(42.9%) 1(31.4%) 5(14.3%) 1(2.9%) 1(2.9%) 1(2.9%) 1(2.9%) 7(20.9%) 7(20.9%) 7(20.9%) 7(20.9%)	2(5. eW) 2(5. eW) 2(5. eW) 2(5. eW) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 3(7. 5W) 4(18. eW) 19(47. 5W) 4(18. eW) 19(47. 5W) 4(18. eW) 19(47. 5W) 4(18. eW) 19(22. 5W) 8(28. eW) 6(15. eW) 9(22. 5W) 8(28. eW) 17(42. 5W) 18(25. eW) 18(26.	e.652 [N.S] e.061 [····] e.061 [····] <.001 [····]
4 3 2 1 0 未四各 20) 平均値±標準偏差 4 3 2 1 0 0 未四各 21) 平均値±標準偏差 4 3 2 1 0 0 未回答 超域防子童症度、頻度インデックス 2 2) 平均値±標準偏差 4 3 2 2 1 0 0 未回答 23) 平均値±標準偏差 4 3 2 2 1 0 0 未回答 24) 平均値±標準偏差 4 3 2 2 1 0 0 未回答 24) 平均値±標準偏差 4 3 2 2 1 0 0 未回答	3(1.39) 6(2.5%) 25(10.58) 39(16.4%) 160(67.25) 5(2.1%) 0.6±1.0 6(2.5%) 9(3.8%) 33(13.9%) 30(12.6%) 158(66.4%) 2(0.8%) 1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 45(18.9%) 38(16.0%) 48(20.2%) 52(21.8%) 81(34.0%) 1.6±1.3 19(8.0%) 52(21.8%) 52(21.8%) 63(26.5%) 1.7±1.3 26(10.9%) 58(24.4%) 63(26.5%) 1.7±1.3 26(10.9%) 51(21.4%)	3(3.6%) 9(10.7%) 16(19.6%) 54(64.3%) 2(2.4%) 0.688.9 1(1.20) 3(3.6%) 11(13.1%) 15(17.9%) 52(61.9%) 2(2.4%) 1.41.2 4(4.8%) 13(15.5%) 23(27.4%) 15(17.9%) 16(19.6%) 28(33.3%) 1.341.2 1(1.2%) 15(17.9%) 19(22.6%) 19(22.6%) 30(35.7%) 1.641.2 1(1.2%) 12(27.4%) 18(21.4%) 19(22.6%) 1.721.3 4(4.8%) 24(28.6%) 24(28.6%)	9(11.4%) 14(17.7%) 56(70.9%) 0.4±0.9 3(3.8%) 19(12.7%) 6(7.6%) 60(75.9%) 1.4±1.1 2(2.5%) 11(13.9%) 26(32.9%) 18(22.8%) 22(27.8%) 1.1±1.1 1(1.3%) 8(10.1%) 20(25.3%) 34(43.0%) 1.2±1.2 1(1.3%) 14(17.7%) 16(20.3%) 28(25.3%) 28(35.4%) - 1.4±1.2 4(5.1%) 11(13.9%)	1(2.9%) 1(2.9%) 5(14.3%) 5(17.1%) 22(62.9%) 8.3±8.6 . 3(8.6%) 5(14.3%) 27(77.1%) 4(11.4%) 14(40.6%) 2(5.7%) 4(11.4%) 15(42.9%) 11(31.4%) 5(14.3%) 8(22.9%) 1.5±1.1 1(2.9%) 7(28.6%)	2(5.0%) 2(5.0%) 2(5.0%) 2(5.0%) 3(7.5%) 28(70.0%) 3(7.5%) 3(7.5%) 3(7.5%) 9(22.5%) 4(10.0%) 19(47.5%) 8(20.0%) 6(15.0%) 9(22.5%) 8(20.0%) 6(15.0%) 5(12.5%) 10(25.0%) 5(12.5%) 2(5.0%) 6(15.0%) 5(12.5%) 2(5.0%) 6(15.0%) 6(15.0%) 17(42.5%) 8(20.0%) 6(15.0%) 17(42.5%) 18(25.0%) 6(15.0%) 17(42.5%) 17(42.5%) 18(20.0%) 6(15.0%) 17(42.5%)	e.652 [N.S] e.061 [····] e.061 [····] <.001 [····]

	未包答	2(0.8%)	1(1.2%)	•	•	1(2.5%)	
25)	平均值土標準備是	0.8±1.2	0.7±1.1	0.4±0.9	0.5±0.7	1.7±1.7 <	.001 [*****]
	4	12(5.0%)	2(2.4%)	1(1.3%)		9(22.5%	<.001 [*****]
	3	14(5.9%)	4(4.8%)	3(3.8%)	1(2.9%)	6(15.0%	
	2	21(8,8%)	12(14.3%)	5(6.3%)	2(5.7%)	2(5.0%)	
	1	38(16.0%)	14(16.7%)	11(13.9%)	10(28.6%)	3(7.5%)	
	0	139(58.4%)	46(54.8%)	56(70.9%)	22(62.9%)	15(37.5%)
	末回答	14(5.9%)	6(7.1%)	3(3.8%)		5(12.5%)	
26)	平均值土恒準信益	1.0±1.2	0.9±1.0	0.8±1.1	8.6±0.8	1.9±1.5 <	.001 [*****]
	4	8(3.4%)		1(1.3%)		7(17.5%) <.001 [*****]
	3	25(10.5%)	8(9.5%)	7(8.9%)	1(2.9%)	9(22.5%)
	2	38(16.0%)	14(16.7%)	12(15.2%)	5(14.3%)	7(17.5%)
	1	54(22.7%)	23(27.4%)	15(19.0%)	9(25.7%)	7(17.5%)
	8	112(47.1%)	38(45.2%)	44(55.7%)	29(57.1%)	10(25.0%)
	未四各	1(0.4%)	1(1.20)	•	•	•	
27)	平均值土使率信息	0.6±1.0	0.7±1.1	0.4±0.9	0.5±0.7	0.9±1.3 0	.175 [N.S]
	4	6(2.5%)	3(3.6%)	1(1.3%)		2(5.0%)	0.284 [N.S]
	3 .	19(4.2%)	5(6.0%)	3(3.8%)		2(5.0%)	
	2	16(6.7%)	5(6.0%)	5(6.3%)	3(8.6%)	3(7.5%)	
	1	43(18.1%)	18(21.4%)	11(13.9%)	11(31.4%)	3(7.5%)	
	9	142(59.7%)	47(56.0%)	57(72.2%)	21(60.0%)	17(42.5%)
	未四答	21(8.8%)	6(7.1%)	2(2.5%)	•	13(32.5%)	
	平均值±惯準信益	0.8±1.2	0.8±1.1	0.6±1.0	9.6±9.8	1.6±1.7 0	.002 [***]
	4	12(5.0%)	3(3.6%)	2(2.5%)	•	7(17.5%	
	3	14(5.9%)	4(4.8%)	5(6.3%)	1(2.9%)	4(10.0%)
	2	24(10.1%)	13(15.5%)	5(6.3%)	5(14.3%)	1(2.5%)	
	1	45(18.9%)	16(19.0%)	15(19.0%)	9(25.7%)	5(12.5X)
	0	127(53.4%)	45(53.6%)	50(63.3%)	19(54.3%)	13(32.5X)
	未四答	16(6.7%)	3(3.6%)	2(2.5%)	1(2.9%)	10(25.0%)	
	平均值主保净但差	1.7±1.5	1.3±1.5	2.3±1.2	2.1±1.3	2.1±1.8 Ø	
	4	16(6.7%)	5(6.0%)	5(6.3%)	1(2.9%)	5(12.5%	
	3	34(14.3%)	13(15.5%)	12(15.2%)	5(14.3%)	4(10.0%)
	2	18(7.6%)	7(8.3%)	8(10.1%)	3(8.6%)		
	1	14(5.9%)	4(4.8%)	7(8.9%)	2(5.7%)	1(2.5%)	
	0	42(17.6%)	31(36.9%)	3(3.8%)	2(5.7%)	6(15.0%)
	未四答	114(47.9%)	24(28.6%)	44(55.7%)	22(62.9%)	24(60.0%)	
スコア		17.0±9.2	17.0±8.3	14.6±7.5	13.1±7.3	24.9±11.1	<.001 [*****]
スコア		8. 616 .4	7.8±5.5	7.0±4.4	6.8±4.4	14.819.1	<.001 [*****]
スコア		8.7 ±6 .4	8.4±5.9	7.0±5.9	6.9±4.8	14.0±7.1	<.001 [*****]
スコア		34.2±19.6	33.2±16.9	28. 61 15.2	26.8±13.7	53.8±24.4	<.001 [*****]
スコア	'E	27.5±1.3	27.8±1.1	27.5±0.9	28.2±0.6	26.1±1.9	<.001 [*****]
スコア	によるドライアイ診断	35.0±18.1	34.1±15.0	29.5±13.9	28.0±11.4	54.1±23.1 <	.001 [*****]

Plus minus value:meantsd.

/ariables	Total (№238)	臨床医診断あり (1≒56)	臨床医診断なし (N+182)	P-value
育金地区				
東京	84(35.3%)	18(17.9%)	74(40.7%)	<.001 [*****]
大阪 福岡	79(33.2%) 35(14.7%)	10(17.9%)	69(37.9%) 31(17.0%)	
原 基	40(16.8%)	4(7.1%) 32(57.1%)	8(4.4%)	
F當(点) (性	39.7±11.5	45.0±14.7	38.1±9.9	<.001 [*****]
	163(68.5%)	48(85.7%)	115(63.28)	0.002 [•••]
・ライアイ診断 (日)はい	56(23.5%)	56(100.0%)		<.001 [*****]
闭い いえ 不明	182(76.5%)	•	182(190.0%)	
・ライアイ不定 地所重 症度・頻度インデックス				
1) 平均值±額準值差 4	1.8±1.3 26(10.9%)	2.8±1.3 21(37.5%)	1.5±1.2 5(2.7%)	<.001 [*****] <.001 [*****]
3	54(22.7%)	17(30.4%)	37(20.3%)	
2 1	63(26.5%) 38(16.0%)	9(16.1%) 4(7.1%)	54(29.7%) 34(18.7%)	
0 未回答	57(23.9%)	5(8.9%)	52(28.6%)	
2) 平均链±標準備差	1.7±1.3	2. 6± 1.2		- 001 [00000]
4	1.711.3	2.6±1.2 14(25.6%)	1.4±1.1 5(2.7%)	<.001 [*****] <.001 [*****]
3	47(19.7%)	20(35.7%)	27(14.8%)	
2	64(26.9%)	13(23.2%)	51(28.0%)	
1 0	48(29.2%) 59(24.8%)	5(8.9%) 4(7.1%)	43(23,6%) 55(30,2%)	
未包答	1(0.4%)	4(7.1%)	1(0.5%)	
3) 平均 值±標準編差	1.2±1.1	1.9±1.1	0.9±1.0	<.001 [*****]
4 3	6(2.5%) 27(11.3%)	4(7.1%) 14(25.0%)	2(1.1%) 13(7.1%)	<.001 [*****]
ž	57(23.9%)	19(33.9%)	38(20.9%)	
1 .	56(23.5%)	12(21.4%)	44(24.2%)	
0 未回答	91(38. <i>2</i> K) 1(0.4K)	7(12.5%)	84(46.2%) 1(0.5%)	
4) 平均値±標準備差	0.9±1.1	1.7±1.3	0.7±0.9	<.001 [*****]
4	8(3.4%)	6(10.7%)	2(1.1%)	<.001 [*****
3	16(6.7%)	8(14.3%)	8(4.4%)	
2 1	41(17.2%) 54(22.7%)	17(30.4%) 12(21.4%)	24(13.2%) 42(23,1%)	
0	119(50.0%)	13(23.2%)	106(58.2%)	
未回答	•	•	•	
5) 平均額±標準鉱差 4	2.6±1.0 42(17.6%)	2.8±1.0 16(28.6%)	2.5±0.9 26(14.3%)	0.030 [*] 0.013 [*]
3	92(38.7%)	23(41.1%)	69(37.9%)	0.013 L
2	76(31.9%)	11(19.6%)	65(35.7%)	
1	21(8.8%) 7(2.9%)	4(7. 1%) 2(3.6%)	17(9.3%) 5(2.7%)	
未回答	•	•	•	
6) 平均值±標準備差	1.7±1.3	2.4±1.3	1.5±1.2	<.001 [*****]
4 3	24(10.1%) 41(17.2%)	14(25.0%) 15(26.8%)	10(5,5%) 26(14,3%)	<.001 [*****
2	69(29.0%)	14(25.0%)	55(30.2%)	
1	49(20.6%)	7(12.5%)	42(23.1%)	
0 未回答	55(23.1%)	6(10.7%)	49(26.9%)	
7) 平均值±衡準值差	1.6±1.2	1.9±1.3	1.5±1.1	0.016 [•]
4	16(6.7%)	8(14.3%)	8(4.4%)	0.025 [·
3 2	42(17.6%)	11(19.6%)	31(17.0%)	
1	54(22.7%) 83(34.9%)	15(26.8%) 13(23.2%)	39(21.4%) 70(38.5%)	
0 未回答	43(18.1%)	9(16.1%)	34(18.7%)	
8) 平均值2億準值差				0.034.5. 4. 7.
6) 千芍智工株牛県豆 4	1.5±1.1 8(3.4%)	1.8±1.0 2(3.6%)	1.4±1.1 6(3.3%)	0.034 [*] 0.026 [*
3	37(15.5%)	12(21.4%)	25(13.7%)	
2	64(26.9%) 82(34.5%)	18(32.1%) 18(32.1%)	46(25.3%) 64(35.2%)	
0	47(19.7%)	6(10.7%)	41(22.5%)	
未函答	•	•	•	
9) 平均 <u>链±</u> 像準備差 4	0.7±1.0 5(2.1%)	1.2±1.3 3(5.4%)	0.6±0.9 2(1.1%)	<.001 [*****] <.001 [*****]
3	13(5.5%)	8(14.3%)	5(2.7%)	
2	28(11.8%)	10(17.9%)	18(9.9%)	
1	52(21.8%) 138(58.0%)	10(17.9%) 23(41.1%)	42(23.1%) 115(63.2%)	
未回答	2(0.8%)	2(3.6%)	•	
10) 平均值±價準偏差	1.7±1.1	2.3±1.2 9/16.1%)	1.6±1.0	<.001 [*****]
	14(5.9%) 48(20.2%)	9(16.1%) 17(30.4%)	5(2.7%) 31(17.0%)	<.001 [*****
4 3			(,)	
	74(31.1%)	16(28.6%)	58(31.9%)	
3 2 1	74(31.1%) 66(27.7%)	8(14.3%)	58(31.9%)	
3 2	74(31.1%)			
3 2 1 0	74(31.1%) 66(27.7%) 35(14.7%)	8(14.3%) 6(10.7%)	58(31.9%) 29(15.9%)	<.001 [*****]

-					
3		29(12.2%)	11(19.6%)	18(9.9%)	
2		50(21.0%)	11(19.6%)	39(21.4%) 62(34.1%)	
1 0		75(31.5%) 71(29.8%)	13(23.2%) 13(23.2%)	58(31.9%)	
未回	国答				
	均簡±標準僅差	0.6±1.2	1.4±1.6 2(3.6%)	0.5±1.0 2(1.1%)	<.001 [*****] 0.002 [***]
4		4(1.7%) 11(4.6%)	5(8.9%)	6(3.3%)	0.002 []
2		9(3.8%)	1(1.8%)	8(4.4%)	
1		4(1.7%)	1(1.8%)	3(1.6%)	
0		90(37.8%)	9(16.1%)	81(44.5X)	
未回	落	120(50.4%)	38(67.9%)	82(45.1%)	
視機能障害	学不定効所重症度・頻度インデックス				
13) 平均	均鏈±標準循整	1.6±1.2	1.9±1.4	1.5±1.2	0.033 [*]
4		16(6.7%)	8(14.3%)	8(4.4%)	0.053 [N.S]
3		42(17.6%)	11(19.6%)	31(17.0%)	
2		59(24.8%) 61(25.6%)	15(26.8%) 9(16.1%)	44(24.2%) 52(28.6%)	
ė		60(25.2%)	13(23.2%)	47(25.8%)	
未包	图答	•		•	
14\ ₩#	均值±標準備差	1.4±1.3	2.2±1.4	1,2±1,2	<.001 [*****]
4	公司工作中间区	22(9.2%)	14(25.0%)	8(4.4%)	<.001 [*****]
3		30(12.6%)	11(19.6%)	19(10.4%)	
2		53(22.3%)	14(25.0%)	39(21.4%)	
1		52(21.8%)	6(10.7%)	46(25.3%)	
6 未回	H194	81(34.0%)	11(19.6%)	70(38.5%)	
*E	2 5	•	•	•	
	均值±標準信差	0.8±1.1	1.7±1.5	0.5±0.8	<.001 [*****]
4		11(4.6%)	9(16.1%)	2(1.1%)	<.001 [*****]
3 2		16(6.7%) 16(6.7%)	9(16.1%) 8(14.3%)	7(3.8%) 8(4.4%)	
1		58(24.4%)	14(25.0%)	44(24.2%)	
0		137(57.6%)	16(28.6%)	121(66.5%)	
未回	9音	•		•	
16) 平岩	均衡主管準 極差	0.5±0.9	1.3±1.4	0.3±0.7	<.001 [*****]
4		3(1.3%)	3(5.4%)		<.001 [*****]
3		7(2.9%)	4(7.1%)	3(1.6%)	
2		15(6.3%)	7(12.5X)	8(4.4%)	
1		30(12.6%) 127(53.4%)	5(8.9%) 13(23.2%)	25(13.7%) 114(62.6%)	
未巨	回答	56(23.5%)	24(42.9%)	32(17.6%)	
17) 平# 4	均值±每準值差	1.1±1.3 18(7.6%)	2.0±1.4 10(17.9%)	0.8±1.1 8(4.4%)	<.001 [*****] <.001 [*****]
3		17(7.1%)	10(17.9%)	7(3.8%)	(.001 []
2		35(14.7%)	10(17.9%)	25(13.7%)	
1		60(25.2 X)	19(17.9%)	50(27.5%)	
0 未包	R2 2	101(42.4%) 7(2.9%)	10(17.9%) 6(10.7%)	91(50.0%) 1(0.5%)	
*=	28	((2.54)	0(10.17)	2(0.5%)	
	均値±標準幅差	0.8±1.0	1.5±1.4	0.5±0.8	<.001 [*****]
4		7(2.9%)	7(12.5%)	662.200	<.001 [*****]
3 2		13(5.5%) 25(10.5%)	7(12.5%) 8(14.3%)	6(3.3%) 17(9.3%)	
1		66(27.7%)	18(32.1%)	48(26.4%)	
0		127(53.4%)	16(28.6%)	111(61.0%)	
未拉	或答	•	•	•	
19) 平均	均衡±標準鑑整	0.5±0.9	0.7±1.1	0.5±0.8	0.160 [N.S]
4		3(1.3%)	2(3.6%)	1(0.5%)	0.717 [N.S]
3		6(2.5%)	3(5.4%)	3(1.6%)	
2		25(10,5%) 39(16.4%)	7(12.5%)	18(9.9%) 35(19.2%)	
1 0		160(67.2%)	4(7.1%) 37(66.1%)	123(67.6%)	
未回	回答	5(2.1%)	3(5.4%)	2(1.1%)	
20) ¥±	均值±豪净假整	0.6±1.0 6(2.5%)	1.0±1.3 5(8.9%)	0.5±0.9 1(0.5%)	0.004 [***] 0.029 [*]
3		9(3,8%)	3(5.4%)	6(3.3%)	2.0cm (]
2		33(13.9%)	9(16.1%)	24(13.2K)	
1		30(12.6%)	7(12.5%)	23(12.6%)	
0		158(66.4%)	32(57.1%)	126(69.2%) 2(1.1%)	
±=	司生	2/0 99/2			
未回	回答	2(0.8%)	•	2(1.15)	
21) 平均	回答 均值±標準值差	1.5±1.3	2.0±1.4	1.3±1.2	<.001 [*****]
21) 平 4		1.5±1.3 17(7.1%)	11(19.6%)	1.3±1.2 6(3.3%)	<.001 [*****] <.001 [*****]
21) 平 4 3		1.5±1.3 17(7.1%) 36(15.1%)	11(19.6%) 10(17.9%)	1.3±1.2 6(3.3%) 26(14.3%)	
21) 平 4		1.5±1.3 17(7.1%)	11(19.6%)	1.3±1.2 6(3.3%)	
21) 平 4 3 2 1 0	均值4棟準信差	1.5±1.3 17(7.1½) 36(15.1%) 69(29.0%)	11(19.6%) 10(17.9%) 15(26.8%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%)	
21) 平 4 3 2 1 0		1.5±1.3 17(7.1½) 36(15.1%) 69(29.0%) 45(18.9%)	11(19.6%) 10(17.9%) 15(26.8%) 10(17.9%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%)	
21) 平 4 3 2 1 0 未 E	均值4棟準信差	1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%)	11(19.6%) 10(17.9%) 15(26.8%) 10(17.9%) 10(17.9%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%)	
21) 平4 4 3 2 1 0 未胚環境因子重	均值:標準個差	1. S±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%)	11(19.6%) 10(17.9%) 15(25.8%) 18(17.9%) 10(17.9%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1	<.001 [*****]
21) 平5 4 3 2 1 0 未 環境因子重 22) 平5 4	均値±標準個差 配容 重症度・頻度インテックス	1. 5±1.3 17(7. 1½) 36(15. 1½) 69(29.0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8.0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1 4(2.2%)	<.001 [*****]
21) 平5 4 3 2 1 0 未 環境因子重 22) 平5 4 3	均値±標準個差 配容 重症度・頻度インテックス	1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%)	11(19.6%) 10(17.9%) 15(26.8%) 10(17.9%) 10(17.9%) 2.5±1.4 15(26.8%) 18(32.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1 4(2.2%) 20(11.0%)	<.001 [*****]
21) 平5 4 3 2 1 0 未 環境因子重 22) 平5 4	均値±標準個差 配容 重症度・頻度インテックス	1. 5±1.3 17(7. 1½) 36(15. 1½) 69(29.0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8.0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1 4(2.2%)	<.001 [*****]
21) 平4 4 3 2 1 0 未起 環境因子里 22) 平2 4 3 2 1 0	均値±標準個差 密容 配定度・頻度インテックス 均 <u>値±</u> 標準個差	1. 5±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8. 0%) 38(16. 0%) 48(20. 2%) 51(21. 8%) 81(34. 0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 19(17.9%) 4(7.1%) 9(16.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) . 1.1±1.1 4(2.2%) 20(11.0%) 38(20.9%) 48(26.4%) 72(39.6%)	<.001 [*****]
21) 平4 4 3 2 1 0 未起 環境因子里 22) 平2 4 3 2 1 0	均値±標準個差 配容 重症度・頻度インテックス	1. 5±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%) 	11(19.6%) 10(17.9%) 15(26.8%) 18(17.9%) 10(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 10(17.9%) 4(7.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1 4(2.2%) 26(11.0%) 38(20.9%) 48(26.4%)	<.001 [*****]
21) 平5 4 3 2 1 0 未 5 3 2 22) 平5 4 3 2 1 8 8	均値±標準個差 密容 配定度・頻度インテックス 均 <u>値±</u> 標準個差	1. 5±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8. 0%) 38(16. 0%) 48(20. 2%) 51(21. 8%) 81(34. 0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 19(17.9%) 4(7.1%) 9(16.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) . 1.1±1.1 4(2.2%) 20(11.0%) 38(20.9%) 48(26.4%) 72(39.6%)	<.001 [*****] <.001 [*****] <.001 [*****]
21) 平4 4 3 2 1 0 来匝 322) 平4 4 3 2 1 0 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	均値±棟準個差 四音 配定度・頻度インテックス 均値±棟準個差	1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 81(34.0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 19(17.9%) 4(7.1%) 9(16.1%) 2.7±1.3 18(32.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) 1.1±1.1 4(2.2%) 20(11.9%) 38(20.9%) 48(26.4%) 72(39.6%) . 1.3±1.1 1(0.5%)	<.001 [*****] <.001 [*****] <.001 [*****]
21) 平4 4 3 2 1 0 未起 22) 平5 4 3 2 1 0 未 4 3 2 1 4 4 3	均値±棟準個差 四音 配定度・頻度インテックス 均値±棟準個差	1. 5±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8. 0%) 38(16. 0%) 48(20. 2%) 52(21. 8%) 81(34. 0%)	11(19.6%) 10(17.9%) 15(26.8%) 18(17.9%) 10(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 10(17.9%) 4(7.1%) 9(16.1%) 2.7±1.3 18(32.1%) 18(32.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) . 1.1±1.1 4(2.2%) 26(11.0%) 38(20.9%) 48(26.4%) 72(39.6%) . 1.3±1.1 1(0.5%) 32(17.6%)	<.001 [*****] <.001 [*****] <.001 [*****]
21) 平4 4 3 2 1 0 来巨 22) 平4 4 3 2 1 0 8 4 3 2 1 0 8 4 3 2 1 9 7 8 9 8 9 8 9 9 8 9 8 9 8 9 8 9 8 9 8	均値±棟準個差 四音 配定度・頻度インテックス 均値±棟準個差	1.5±1.3 17(7.1%) 36(15.1%) 69(29.0%) 45(18.9%) 71(29.8%) 1.4±1.3 19(8.0%) 38(16.0%) 48(20.2%) 52(21.8%) 81(34.0%)	11(19.6%) 19(17.9%) 15(26.8%) 18(17.9%) 18(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 19(17.9%) 4(7.1%) 9(16.1%) 2.7±1.3 18(32.1%) 18(32.1%) 18(32.1%) 18(32.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) . 1.1±1.1 4(2.2%) 20(11.0%) 38(20.9%) 48(25.4%) 72(39.6%) . 1.3±1.1 1(0.5%) 32(27.6%) 38(20.9%)	<.001 [*****] <.001 [*****] <.001 [*****]
21) 平4 4 3 2 1 0 来框 22) 平5 4 3 2 1 9 来框 23) 平4 4 3 2 3	均値±棟準個差 四音 配定度・頻度インテックス 均値±棟準個差	1. 5±1.3 17(7. 1%) 36(15. 1%) 69(29. 0%) 45(18. 9%) 71(29. 8%) 1. 4±1.3 19(8. 0%) 38(15. 0%) 48(29. 2%) 52(21. 8%) 51(34. 0%) 1. 6±1.3 19(8. 0%) 50(21. 0%) 40(29. 2%)	11(19.6%) 10(17.9%) 15(26.8%) 18(17.9%) 10(17.9%) 2.5±1.4 15(26.8%) 18(32.1%) 10(17.9%) 4(7.1%) 9(16.1%) 2.7±1.3 18(32.1%) 18(32.1%)	1.3±1.2 6(3.3%) 26(14.3%) 54(29.7%) 35(19.2%) 61(33.5%) . 1.1±1.1 4(2.2%) 26(11.0%) 38(20.9%) 48(26.4%) 72(39.6%) . 1.3±1.1 1(0.5%) 32(17.6%)	<.001 [*****] <.001 [*****] <.001 [*****]

24) 平均值±億準信益	1.7 <u>+1</u> .3	2.7±1.3	1.4±1.2	<.001 [*****]
4	26(10.9%)	20(35.7%)	6(3.3%)	<.001 [*****]
3	51(21.4%)	17(30.4%)	34(18.7 X)	
2	45(18.9%)	8(14.3%)	37(29.3%)	
1	69(25. 2%)	6(10.7%)	54(29.7%)	
9	54(22.7%)	5(8.9%)	49(26.9%)	
未包答	2(0.8%)	•	2(1.1%)	
25) 平均優±標準信差	0.8±1.2	1.6±1.6	0.5±0.9	<.001 [*****]
4	12(5.0%)	9(16.1%)	3(1.6%)	<.001 [*****]
3	14(5.9%)	7(12.5%)	7(3.8%)	
2	21(8.8%)	7(12.5%)	14(7.7%)	
1	38(16.0%)	7(12.5%)	31(17.0%)	
0	139(58.4%)	19(33.9%)	120(65.9%)	
未回答	14(5.9%)	7(12.5%)	7(3.8%)	
26) 平均值±標準信差	1.0±1.2	1.6±1.4	0.8±1.0	<.001 [*****]
4	8(3.4%)	6(10.7%)	2(1.1%)	<.001 [*****]
3	25(10.5%)	10(17.9%)	15(8.2%)	
2	38(16.0%)	12(21.4%)	26(14.3%)	
1	54(22.7%)	9(16.1%)	45(24.7%)	
0	112(47.1%)	19(33.9%)	93(51.1%)	
未回答	1(0.4%)	•	1(0.5%)	
27) 平均衡±標準信差	0.6±1.0	0.7±1.0	0.6±1.0	0.574 [N.S]
4	6(2.5%)	1(1.8%)	5(2.7%)	0.573 [N.S]
3	10(4.2%)	2(3.6%)	8(4.4%)	
2	16(6.7%)	5(8.9%)	11(6.0%)	
1	43(18.1%)	7(12.5%)	36(19.8%)	
0	142(59.7%)	25(44.6%)	117(64.3%)	
未回答	21(8.8%)	16(28.6%)	5(2.7%)	
28) 平均值±標準信差	0.8±1.2	1.4±1.6	0.7±1.0	<.001 [*****]
4	12(5.0%)	19(17.9%)	2(1.1%)	0.004 [***]
3	14(5.9%)	4(7.1%)	10(5.5%)	
Z	24(10.1%)	5(8.9%)	19(10.4%)	
1	45(18.9%)	7(12.5%)	38(20.9%)	
0	127(53.4%)	22(39.3%)	105(57.7%)	
未包答	16(6.7%)	8(14.3%)	8(4.4%)	
29) 平均額±標準信差	1.7±1.5	2.3±1.7	1.6±1.4	0.012 [*]
4	16(6.7%)	11(19.6%)	5(2.7%)	0.011 [•]
3	34(14.3%)	6(10.7%)	28(15.4%)	
2	18(7.6%)	3(5.4%)	15(8.2%)	
1	14(5.9%)	2(3.6%)	12(6.6%)	
0	42(17.6%)	8(14.3%)	34(18.7%)	
未回答	114(47.9%)	26(46.4%)	88(48.4%)	
スコアA	17.0±9.2	23.7±10.3	14.9±7.8	<.001 [*****]
スコア8	8.6±6.4	13.4±8.4	7.1±4.8	<.001 [*****]
スコアC	8.7±6.4	13.8±6.9	7.1±5.4	<.001 [*****]
スコアD	34.2±19.6	50.8±23.1	29.1±15.2	<.001 [*****]
スコアE	27.5±1.3	26.7±1.9	27.7±1.0	<.001 [*****]
スコアによるドライアイ診断	35.0±18.1	51.3±21.8	30.0±13.4	<.001 [*****]

Plus minus value:mean±sd.

戦単位ドライアイ別集計(調査票実施症例):01APR2008 20:58

∀ariables	Total (N-476)	Normal[NEW CRITERIA] (N=119)	PDE[NEW CRITERIA] (N=186)	DDE[NEW CRITERIA (N=171)] P-value
Mard					
Tokyo	168(35.3%)	59(49.6%)	44(23.7%)	65(38.0%)	<.001 [*****]
0sako	158(33.2%)	39(32.8%)	69(37.1%)	50(29.2%)	
Fukuoka	79(14.7%)	16(13.4%)	43(23.1%)	11(6.4%)	
Keio Univ	80(16.8%)	5(4.2%)	30(16.1%)	45(26.3%)	
Age(yr) Women	39.7±11.5 326(68.5%)	36.3±9.1 66(55.5%)	39.5±11.3 129(69.4%)	42.3±12.6 131(76.6%)	<.001 [*****] <.001 [*****]
Right eye Left eye	238(50.0%) 238(50.0%)	61(51.3%) 58(48.7%)	97(52.2%) 89(47.8%)	80(46.8%) 91(53.2%)	0.569 [N.S]
[OLD CRITERIA]					
Schirmer Test≤5mm	154(32.4%)		73(39.2%)	81(47.4%)	<.001 [*****]
BUT≖5s	326(68.5%)		159(85.5%)	167(97.7%)	<.001 [*****]
Fluoresceine1pt	324(68.1%)	35(29.4%)	122(65.6%)	167(97.7%)	<.001 [*****]
Rose bengal≥3pts	109(22.9%)	•	5(2.7 X)	104(60.8%)	<.001 [*****]
Diagnosis					
Normal	84(17.6%)	84(79.6%)			<.001 [*****]
PDE	109(22.9%)	35(29.4%)	74(39.8%)		• •
DDE	283(59.5%)		112(60.2%)	171(100.0%)	
[NEW CRITERIA]					
Schirmer Test≤5mm	154(32.4%)	•	73(39.2%)	81(47.4%)	<.001 [*****]
BUT≤5s	326(68.5%)		159(85.5%)	167(97.7%)	<.001 [*****]
Fluorescein≥3pt	151(31.7%)	•	9(4.8%)	142(83.0%)	<.001 [*****]
Rose bengal≥3pts	109(22.9%)		5(2.7%)	104(60.8%)	<.001 [*****]
Diagnosis					
Normal	119(25.0%)	119(100.0%)			<.001 [*****]
PDE	186(39.1%)		186(100.0%)		
DDE	171(35.9%)	•		171(100.0%)	
[OLD-NEW CRITERIA]					
Schirmer Test					
No-No	316(66.4%)	119(100.0%)	110(59.1%)	87(50.9%)	<.001 [*****]
No-Yes					
Yes-No					
Yes-Yes	154(32.4%)	•	73(39.2%)	81(47.4%)	
BUT No-No	148(31.1%)	119(100.0%)	27(14.5%)	2(1.2%)	<.001 [*****]
No-Yes	•	•		•	
Yes-No	•				
Yes-Yes	326(68.5%)		159(85.5%)	167(97.7%)	
Fluorescein					
No-No	152(31.9%)	84(70.6%)	64(34.4%)	4(2.3%)	<.001 [*****]
No-Yes	•	•			
Yes-No	173(36.3%)	35(29.4%)	113(60.8%)	25(14.6%)	
Yes-Yes	151(31.7%)	•	9(4.8%)	142(83.0%)	
Rose Bengal					
No-No	365(76.7%)	119(100.0%)	181(97.3%)	65(38.0%)	<.001 [*****]
No-Yes	•	•		•	
Yes-No		•			
Yes-Yes	109(22.9%)		5(2.7%)	104(60.8%)	
Diagnosis					
Normal-Normal	84(17.6%)	84(70.6%)			<.001 [****]
Normal-PDE					
Normal-DDE	_				
PDE-Normal	35(7.4%)	35(29.4%)			
PDE-PDE	74(15.5%)		74(39.8%)		
PDE-DDE		•	(00.0.0)	•	
DDE-Normal	•	•	•	•	
	447677 FW	•	112/60 200	•	
DDE-PDE	112(23.5%)	•	112(60.2%)		
DDE-DDE	171(35.9%)	•	•	171(100.0%)	
[EXAMINATION] Schirmer					
meantsd	13.6±10.9	22.6±10.2	11.3±9.7	9.3±8.6	<.001 [*****]
median[IQR]	10.0[5.0-20.0]	22.5[14.0-35.0]	7.0[4.0-16.0]	6.0[3.5-12.0]	<.001 [*****]
BUT					
meantsd	4.5±2.8	8.0±2.5	3.8±2.0	2.8±1.3	<.001 [*****]
median[IQR]	4.0[3.0-6.0]	7.0[6.0-9.0]	3.0[3.0-5.0]	3.0[2.0-3.0]	<.001 [*****]
Fluorescein	[0.0-0.0]	1.0[0.0-3.0]	2.0[2.0-2.0]	3.0[2.0-3.0]	L
	4 0.3 3	0 1±0 =	1 040 0	4.2±2.3	<.001 [*****]
mean±sd	1.9±2.2	0.4±0.6	1.0±0.9		
	1.0[0.0-3.0]	0.0[0.0-1.0]	1.0[0.0-2.0]	4.0[3.0-6.0]	<.001 [*****]
median[IQR]					
Rose bengal				2012 7	. 001 [64****]
	1.5±1.6 1.0[0.0-2.0]	0.4±0.6 0.0[0.0-1.0]	0.8±0.8 1.0[0.0-1.0]	3.0±1.7 3.0[2.0-4.0]	<.001 [*****] <.001 [*****]

IQR:interquartile range



