

表 6

Table 6 Sensitivity and specificity of the test involving FSBP% according to VWF hand-based classification

Test conditions	Room t °C	VWF(+)	VWF(-)	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity (VWF(+) group) %	Sensitivity (VWF(-) group) %	Specificity % (control group)		
Data from the right hands of the patients and controls										
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned										
15 and/or 10°C	right hand	30, 15, 10°C	21±1	5	16	22	65.0	100.0	25.0	63.6
15°C	right hand	30, 15°C	21±1	5	16	22	65.0	80.0	12.5	86.4
10°C	right hand	30, 10°C	21±1	5	15	22	65.0	100.0	20.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)										
15°C	index	30, 15°C	21±1	4	16	22	65.0	25.0	0.0	90.9
	middle	30, 15°C	21±1	5	15	22	65.0	40.0	6.7	90.9
	ring	30, 15°C	21±1	5	16	22	65.0	40.0	6.3	95.5
	little	30, 15°C	21±1	4	16	22	65.0	0.0	0.0	100.0
	together	30, 10°C	21±1	18	63	88	65.0	27.8	3.2	94.3
10°C	index	30, 10°C	21±1	5	15	22	65.0	80.0	6.7	90.9
	middle	30, 10°C	21±1	4	14	22	65.0	50.0	14.3	90.9
	ring	30, 10°C	21±1	5	14	22	65.0	50.0	7.1	90.9
	little	30, 10°C	21±1	5	15	22	65.0	0.0	0.0	100.0
	together	30, 10°C	21±1	19	58	88	65.0	42.1	6.9	93.2
Data from the left hands of the patients and right hands of the controls										
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned										
15 and/or 10°C	left hand	30, 15, 10°C	21±1	5	13	22	65.0	40.0	30.8	63.6
15°C	left hand	30, 15°C	21±1	5	13	22	65.0	40.0	23.1	86.4
10°C	left hand	30, 10°C	21±1	4	12	22	65.0	25.0	33.3	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)										
15°C	index	30, 15°C	21±1	5	13	22	65.0	40.0	7.7	90.9
	middle	30, 15°C	21±1	5	12	22	65.0	20.0	8.3	90.9
	ring	30, 15°C	21±1	5	13	22	65.0	20.0	7.7	95.5
	little	30, 15°C	21±1	5	13	22	65.0	0.0	0.0	100.0
	together	30, 10°C	21±1	20	51	88	65.0	20.0	5.9	94.3
10°C	index	30, 10°C	21±1	4	12	22	65.0	25.0	16.7	90.9
	middle	30, 10°C	21±1	4	11	22	65.0	25.0	27.3	90.9
	ring	30, 10°C	21±1	4	12	22	65.0	25.0	16.7	90.9
	little	30, 10°C	21±1	4	12	22	65.0	0.0	8.3	100.0
	together	30, 10°C	21±1	16	47	88	65.0	18.8	17.0	93.2

All subjects were in sitting position. Cooling condition: finger cooling only.

表D

Table 7 Sensitivity and specificity of the test involving FSBP% according to VWF hand-based classification

Test conditions	Room t °C	VWF(+)	VWF(-)	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity (VWF(+ group) %)	Sensitivity (VWF(- group) %)	Specificity % (control group)		
Data from the right hands of the patients and controls										
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned										
15 and/or 10°C	right hand	30, 15, 10°C	21±1	5	16	22	75.0	100.0	43.8	40.9
15°C	right hand	30, 15°C	21±1	5	16	22	75.0	80.0	12.5	45.5
10°C	right hand	30, 10°C	21±1	5	15	22	75.0	100.0	40.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)										
15°C	index	30, 15°C	21±1	4	16	22	75.0	50.0	12.5	72.7
	middle	30, 15°C	21±1	5	15	22	75.0	60.0	13.3	68.2
	ring	30, 15°C	21±1	5	16	22	75.0	40.0	6.3	77.3
	little	30, 15°C	21±1	4	16	22	75.0	25.0	6.3	95.5
	together	30, 10°C	21±1	18	63	88	75.0	44.4	9.5	78.4
10°C	index	30, 10°C	21±1	5	15	22	75.0	100.0	26.7	68.2
	middle	30, 10°C	21±1	4	14	22	75.0	75.0	35.7	77.3
	ring	30, 10°C	21±1	5	14	22	75.0	100.0	21.4	72.7
	little	30, 10°C	21±1	5	15	22	75.0	20.0	13.3	90.9
	together	30, 10°C	21±1	19	58	88	75.0	68.4	24.1	77.3
Data from the left hands of the patients and right hands of the controls										
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned										
15 and/or 10°C	left hand	30, 15, 10°C	21±1	5	13	22	75.0	80.0	53.8	40.9
15°C	left hand	30, 15°C	21±1	5	13	22	75.0	60.0	38.5	45.5
10°C	left hand	30, 10°C	21±1	4	12	22	75.0	75.0	58.3	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)										
15°C	index	30, 15°C	21±1	5	13	22	75.0	60.0	30.8	72.7
	middle	30, 15°C	21±1	5	12	22	75.0	40.0	16.7	68.2
	ring	30, 15°C	21±1	5	13	22	75.0	40.0	15.4	77.3
	little	30, 15°C	21±1	5	13	22	75.0	0.0	0.0	95.5
	together	30, 10°C	21±1	20	51	88	75.0	35.0	15.7	78.4
10°C	index	30, 10°C	21±1	4	12	22	75.0	50.0	50.0	68.2
	middle	30, 10°C	21±1	4	11	22	75.0	25.0	27.3	77.3
	ring	30, 10°C	21±1	4	12	22	75.0	40.0	33.3	72.7
	little	30, 10°C	21±1	4	12	22	75.0	25.0	16.7	90.9
	together	30, 10°C	21±1	16	47	88	75.0	37.5	31.9	77.3

All subjects were in sitting position. Cooling condition: finger cooling only.

表D  
Table 8 Sensitivity and specificity of the test involving FSBP% according to SWS, RP (current), hand-based classification

Test conditions	Room t °C	SW3	SW1-2	SW0	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity SW3 group %	Sensitivity SW1-2 group %	Sensitivity SW0 group %	Specificity % (control group)		
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	right hand	30, 15, 10°C	21±1	1	4	16	22	55.0	100.0	100.0	12.5	90.9
15°C	right hand	30, 15°C	21±1	1	4	16	22	55.0	100.0	25.0	0.0	100.0
10°C	right hand	30, 10°C	21±1	1	4	15	22	55.0	100.0	100.0	13.3	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	1	3	16	22	55.0	0.0	0.0	0.0	100.0
	middle	30, 15°C	21±1	1	4	15	22	55.0	100.0	0.0	0.0	100.0
	ring	30, 15°C	21±1	1	4	16	22	55.0	0.0	25.0	0.0	100.0
	little	30, 15°C	21±1	1	3	16	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	4	14	63	88	55.0	25.0	7.1	0.0	100.0
10°C	index	30, 10°C	21±1	1	4	15	22	55.0	100.0	75.0	0.0	100.0
	middle	30, 10°C	21±1	0	4	14	22	55.0		25.0	14.3	90.9
	ring	30, 10°C	21±1	1	4	14	22	55.0	0.0	50.0	0.0	100.0
	little	30, 10°C	21±1	1	4	15	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	3	16	58	88	55.0	33.3	37.5	3.4	97.7
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	left hand	30, 15, 10°C	21±1	2	3	13	22	55.0	0.0	33.3	30.8	90.9
15°C	left hand	30, 15°C	21±1	2	3	13	22	55.0	0.0	33.3	7.7	100.0
10°C	left hand	30, 10°C	21±1	2	3	12	22	55.0	0.0	25.0	33.3	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	2	3	13	22	55.0	0.0	33.3	0.0	100.0
	middle	30, 15°C	21±1	2	3	12	22	55.0	0.0	33.3	8.3	100.0
	ring	30, 15°C	21±1	2	3	13	22	55.0	0.0	33.3	0.0	100.0
	little	30, 15°C	21±1	2	3	13	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	8	12	51	88	55.0	0.0	25.0	2.0	100.0
10°C	index	30, 10°C	21±1	2	2	12	22	55.0	0.0	0.0	16.7	100.0
	middle	30, 10°C	21±1	2	2	11	22	55.0	0.0	33.3	18.2	90.9
	ring	30, 10°C	21±1	2	2	12	22	55.0	0.0	25.0	8.3	100.0
	little	30, 10°C	21±1	2	2	12	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	8	8	47	88	55.0	0.0	13.3	10.6	97.7

All subjects were in sitting position. Cooling condition: finger cooling only.

表9 Sensitivity and specificity of the test involving FSBP% according to SWS, RP (current), hand-based classification

Test conditions	Room t °C	SW3	SW1-2	SW0	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity SW3 group %	Sensitivity SW1-2 group %	Sensitivity SW0 group %	Specificity % (control group)		
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	right hand	30, 15, 10°C	21±1	1	4	16	22	65.0	100.0	100.0	25.0	63.6
15°C	right hand	30, 15°C	21±1	1	4	16	22	65.0	100.0	75.0	12.5	86.4
10°C	right hand	30, 10°C	21±1	1	4	15	22	65.0	100.0	100.0	20.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	1	3	16	22	65.0	0.0	33.3	0.0	90.9
	middle	30, 15°C	21±1	1	4	15	22	65.0	100.0	25.0	6.7	90.9
	ring	30, 15°C	21±1	1	4	16	22	65.0	0.0	50.0	6.3	95.5
	little	30, 15°C	21±1	1	3	16	22	65.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	4	14	63	88	65.0	25.0	28.6	3.2	94.3
10°C	index	30, 10°C	21±1	1	4	15	22	65.0	100.0	75.0	6.7	90.9
	middle	30, 10°C	21±1	0	4	14	22	65.0		50.0	14.3	90.9
	ring	30, 10°C	21±1	1	4	14	22	65.0	0.0	50.0	7.1	90.9
	little	30, 10°C	21±1	1	4	15	22	65.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	3	16	58	88	65.0	33.3	43.8	6.9	93.2
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	left hand	30, 15, 10°C	21±1	2	3	13	22	65.0	50.0	33.3	30.8	63.6
15°C	left hand	30, 15°C	21±1	2	3	13	22	65.0	50.0	33.3	23.1	86.4
10°C	left hand	30, 10°C	21±1	2	2	12	22	65.0	0.0	25.0	33.3	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	2	3	13	22	65.0	50.0	33.3	7.7	90.9
	middle	30, 15°C	21±1	2	3	12	22	65.0	0.0	33.3	8.3	90.9
	ring	30, 15°C	21±1	2	3	13	22	65.0	0.0	33.3	7.7	95.5
	little	30, 15°C	21±1	2	3	13	22	65.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	8	12	51	88	65.0	12.5	25.0	5.9	94.3
10°C	index	30, 10°C	21±1	2	2	12	22	65.0	0.0	25.0	16.7	90.9
	middle	30, 10°C	21±1	2	2	11	22	65.0	0.0	33.3	27.3	90.9
	ring	30, 10°C	21±1	2	2	12	22	65.0	0.0	25.0	16.7	90.9
	little	30, 10°C	21±1	2	2	12	22	65.0	0.0	0.0	8.3	100.0
	together	30, 10°C	21±1	8	8	47	88	65.0	0.0	20.0	17.0	93.2

All subjects were in sitting position. Cooling condition: finger cooling only.

Table 10 Sensitivity and specificity of the test involving FSBP% according to SWS, RP (current), hand-based classification

Test conditions	Room t °C	SW3	SW1-2	SW0	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity SW3 group %	Sensitivity SW1-2 group %	Sensitivity SW0 group %	Specificity % (control group)		
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	right hand	30, 15, 10°C	21±1	1	4	16	22	75.0	100.0	100.0	43.8	40.9
15°C	right hand	30, 15°C	21±1	1	4	16	22	75.0	100.0	75.0	12.5	45.5
10°C	right hand	30, 10°C	21±1	1	4	15	22	75.0	100.0	100.0	40.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	1	3	16	22	75.0	0.0	66.7	12.5	72.7
	middle	30, 15°C	21±1	1	4	15	22	75.0	100.0	50.0	13.3	68.2
	ring	30, 15°C	21±1	1	4	16	22	75.0	0.0	50.0	6.3	77.3
	little	30, 15°C	21±1	1	3	16	22	75.0	0.0	33.3	6.3	95.5
	together	30, 10°C	21±1	4	14	63	88	75.0	25.0	50.0	9.5	78.4
10°C	index	30, 10°C	21±1	1	4	15	22	75.0	100.0	100.0	26.7	68.2
	middle	30, 10°C	21±1	0	4	14	22	75.0		75.0	35.7	77.3
	ring	30, 10°C	21±1	1	4	14	22	75.0	100.0	75.0	21.4	72.7
	little	30, 10°C	21±1	1	4	15	22	75.0	0.0	25.0	13.3	90.9
	together	30, 10°C	21±1	3	16	58	88	75.0	66.7	68.8	24.1	77.3
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	left hand	30, 15, 10°C	21±1	2	3	13	22	75.0	50.0	100.0	53.8	40.9
15°C	left hand	30, 15°C	21±1	2	3	13	22	75.0	50.0	66.7	38.5	45.5
10°C	left hand	30, 10°C	21±1	2	2	12	22	75.0	50.0	50.0	58.3	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	2	3	13	22	75.0	50.0	66.7	30.8	72.7
	middle	30, 15°C	21±1	2	3	12	22	75.0	50.0	33.3	16.7	68.2
	ring	30, 15°C	21±1	2	3	13	22	75.0	50.0	33.3	15.4	77.3
	little	30, 15°C	21±1	2	3	13	22	75.0	0.0	0.0	0.0	95.5
	together	30, 10°C	21±1	8	12	51	88	75.0	37.5	33.3	15.7	78.4
10°C	index	30, 10°C	21±1	2	2	12	22	75.0	50.0	25.0	50.0	68.2
	middle	30, 10°C	21±1	2	2	11	22	75.0	0.0	33.3	27.3	77.3
	ring	30, 10°C	21±1	2	2	12	22	75.0	0.0	50.0	33.3	72.7
	little	30, 10°C	21±1	2	2	12	22	75.0	0.0	25.0	16.7	90.9
	together	30, 10°C	21±1	8	8	47	88	75.0	12.5	33.3	31.9	77.3

All subjects were in sitting position. Cooling condition: finger cooling only.

表 11 Sensitivity and specificity of the test involving FSBP% according to VS hand-based classification

Test conditions	Room t °C	VS3	VS2	VS1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VS3 group %	Sensitivity VS2 group %	Sensitivity VS1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C right hand	30, 15, 10°C	21±1	3	13	5	22	55.0	66.7	30.8	20.0	90.9
15°C right hand	30, 15°C	21±1	3	13	5	22	55.0	33.3	7.7	0.0	100.0
10°C right hand	30, 10°C	21±1	3	13	4	22	55.0	66.7	30.8	25.0	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	2	13	5	22	55.0	0.0	0.0	0.0	100.0
middle	30, 15°C	21±1	2	13	5	22	55.0	0.0	7.7	0.0	100.0
ring	30, 15°C	21±1	3	13	5	22	55.0	33.3	0.0	0.0	100.0
little	30, 15°C	21±1	2	13	5	22	55.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	9	52	20	88	55.0	11.1	1.9	0.0	100.0
10°C index	30, 10°C	21±1	3	13	4	22	55.0	66.7	15.4	0.0	100.0
middle	30, 10°C	21±1	3	11	4	22	55.0	33.3	9.1	25.0	90.9
ring	30, 10°C	21±1	3	13	3	22	55.0	33.3	7.7	0.0	100.0
little	30, 10°C	21±1	3	13	4	22	55.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	12	50	15	88	55.0	33.3	8.0	6.7	97.7
Data from the left hands of the patients and right hands of the controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C left hand	30, 15, 10°C	21±1	4	10	4	22	55.0	0.0	30.0	50.0	90.9
15°C left hand	30, 15°C	21±1	4	10	4	22	55.0	0.0	20.0	0.0	100.0
10°C left hand	30, 10°C	21±1	3	9	4	22	55.0	0.0	33.3	50.0	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	4	10	4	22	55.0	0.0	10.0	0.0	100.0
middle	30, 15°C	21±1	4	9	4	22	55.0	0.0	22.2	0.0	100.0
ring	30, 15°C	21±1	4	10	4	22	55.0	0.0	10.0	0.0	100.0
little	30, 15°C	21±1	4	10	4	22	55.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	16	39	16	88	55.0	0.0	10.3	0.0	100.0
10°C index	30, 10°C	21±1	3	9	4	22	55.0	0.0	0.0	50.0	100.0
middle	30, 10°C	21±1	3	8	4	22	55.0	0.0	37.5	0.0	90.9
ring	30, 10°C	21±1	3	9	4	22	55.0	0.0	22.2	0.0	100.0
little	30, 10°C	21±1	3	9	4	22	55.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	12	35	16	88	55.0	0.0	14.3	12.5	97.7

All subjects were in sitting position. Cooling condition: finger cooling only.

Table 12 Sensitivity and specificity of the test involving FSBP% according to VS hand-based classification

Test conditions	Room t °C	VS3	VS2	VS1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VS3 group %	Sensitivity VS2 group %	Sensitivity VS1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C right hand	30, 15, 10°C	21±1	3	13	5	22	65.0	66.7	38.5	40.0	63.6
15°C right hand	30, 15°C	21±1	3	13	5	22	65.0	66.7	23.1	20.0	86.4
10°C right hand	30, 10°C	21±1	3	13	4	22	65.0	66.7	38.5	25.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	2	13	5	22	65.0	50.0	0.0	0.0	90.9
middle	30, 15°C	21±1	2	13	5	22	65.0	50.0	7.7	20.0	90.9
ring	30, 15°C	21±1	3	13	5	22	65.0	33.3	15.4	0.0	95.5
little	30, 15°C	21±1	2	13	5	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	9	52	20	88	65.0	33.3	5.8	5.0	94.3
10°C index	30, 10°C	21±1	3	13	4	22	65.0	66.7	23.1	0.0	90.9
middle	30, 10°C	21±1	3	11	4	22	65.0	66.7	9.1	25.0	90.9
ring	30, 10°C	21±1	3	13	3	22	65.0	33.3	15.4	0.0	90.9
little	30, 10°C	21±1	3	13	4	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	12	50	15	88	65.0	41.7	12.0	6.7	93.2
Data from the left hands of the patients and right hands of the controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C left hand	30, 15, 10°C	21±1	4	10	4	22	65.0	0.0	40.0	50.0	63.6
15°C left hand	30, 15°C	21±1	4	10	4	22	65.0	0.0	40.0	25.0	86.4
10°C left hand	30, 10°C	21±1	3	9	4	22	65.0	0.0	33.3	50.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	4	10	4	22	65.0	0.0	20.0	25.0	90.9
middle	30, 15°C	21±1	4	9	4	22	65.0	0.0	22.2	0.0	90.9
ring	30, 15°C	21±1	4	10	4	22	65.0	0.0	20.0	0.0	95.5
little	30, 15°C	21±1	4	10	4	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	16	39	16	88	65.0	0.0	15.4	6.3	94.3
10°C index	30, 10°C	21±1	3	9	4	22	65.0	0.0	11.1	50.0	90.9
middle	30, 10°C	21±1	3	8	4	22	65.0	0.0	37.5	25.0	90.9
ring	30, 10°C	21±1	3	9	4	22	65.0	0.0	33.3	0.0	90.9
little	30, 10°C	21±1	3	9	4	22	65.0	0.0	11.1	0.0	100.0
together	30, 10°C	21±1	12	35	16	88	65.0	0.0	22.9	18.8	93.2

All subjects were in sitting position. Cooling condition: finger cooling only.

表D  
Table 13 Sensitivity and specificity of the test involving FSBP% according to VS hand-based classification

	Test conditions	Room t °C	VS3	VS2	VS1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VS3 group %	Sensitivity VS2 group %	Sensitivity VS1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	right hand	30, 15, 10°C	21±1	3	13	5	22	75.0	66.7	53.8	60.0	40.9
15°C	right hand	30, 15°C	21±1	3	13	5	22	75.0	66.7	23.1	20.0	45.5
10°C	right hand	30, 10°C	21±1	3	13	4	22	75.0	66.7	53.8	50.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	2	13	5	22	75.0	50.0	15.4	20.0	72.7
	middle	30, 15°C	21±1	2	13	5	22	75.0	50.0	23.1	20.0	68.2
	ring	30, 15°C	21±1	3	13	5	22	75.0	33.3	15.4	0.0	77.3
	little	30, 15°C	21±1	2	13	5	22	75.0	0.0	15.4	0.0	95.5
	together	30, 10°C	21±1	9	52	20	88	75.0	33.3	17.3	10.0	78.4
10°C	index	30, 10°C	21±1	3	13	4	22	75.0	66.7	46.2	25.0	68.2
	middle	30, 10°C	21±1	3	11	4	22	75.0	66.7	45.5	25.0	77.3
	ring	30, 10°C	21±1	3	13	3	22	75.0	33.3	38.5	33.3	72.7
	little	30, 10°C	21±1	3	13	4	22	75.0	0.0	7.7	50.0	90.9
	together	30, 10°C	21±1	12	50	15	88	75.0	41.7	34.0	33.3	77.3
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
15 and/or 10°C	left hand	30, 15, 10°C	21±1	4	10	4	22	75.0	75.0	60.0	50.0	40.9
15°C	left hand	30, 15°C	21±1	4	10	4	22	75.0	50.0	50.0	25.0	45.5
10°C	left hand	30, 10°C	21±1	3	9	4	22	75.0	66.7	66.7	50.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
15°C	index	30, 15°C	21±1	4	10	4	22	75.0	50.0	40.0	25.0	72.7
	middle	30, 15°C	21±1	4	9	4	22	75.0	0.0	33.3	25.0	68.2
	ring	30, 15°C	21±1	4	10	4	22	75.0	0.0	40.0	0.0	77.3
	little	30, 15°C	21±1	4	10	4	22	75.0	0.0	0.0	0.0	95.5
	together	30, 10°C	21±1	16	39	16	88	75.0	12.5	28.2	12.5	78.4
10°C	index	30, 10°C	21±1	3	9	4	22	75.0	33.3	55.6	50.0	68.2
	middle	30, 10°C	21±1	3	8	4	22	75.0	0.0	37.5	25.0	77.3
	ring	30, 10°C	21±1	3	9	4	22	75.0	33.3	44.4	25.0	72.7
	little	30, 10°C	21±1	3	9	4	22	75.0	0.0	33.3	0.0	90.9
	together	30, 10°C	21±1	12	35	16	88	75.0	16.7	42.9	25.0	77.3

All subjects were in sitting position. Cooling condition: finger cooling only.



AD  
 Table 14 Sensitivity and specificity of the test involving FSBP% according to VL hand-based classification

	Test conditions	Room t °C	VL3	VL2	VL0-1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VL3 group %	Sensitivity VL2 group %	Sensitivity VL0-1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
	15 and/or 10°C right hand	30, 15, 10°C	21±1	11	7	3	22	55.0	45.5	14.3	33.3	90.9
	15°C right hand	30, 15°C	21±1	11	7	3	22	55.0	18.2	0.0	0.0	100.0
	10°C right hand	30, 10°C	21±1	11	7	2	22	55.0	45.5	14.3	50.0	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
	15°C index	30, 15°C	21±1	10	7	3	22	55.0	0.0	0.0	0.0	100.0
	middle	30, 15°C	21±1	10	7	3	22	55.0	10.0	0.0	0.0	100.0
	ring	30, 15°C	21±1	11	7	3	22	55.0	9.1	0.0	0.0	100.0
	little	30, 15°C	21±1	10	7	3	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	41	28	12	88	55.0	4.9	0.0	0.0	100.0
	10°C index	30, 10°C	21±1	11	7	2	22	55.0	27.3	14.3	0.0	100.0
	middle	30, 10°C	21±1	10	6	2	22	55.0	20.0	0.0	50.0	90.9
	ring	30, 10°C	21±1	11	7	1	22	55.0	18.2	0.0	0.0	100.0
	little	30, 10°C	21±1	11	7	2	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	43	27	7	88	55.0	16.3	3.7	14.3	97.7
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
	15 and/or 10°C left hand	30, 15, 10°C	21±1	12	4	2	22	55.0	25.0	50.0	0.0	90.9
	15°C left hand	30, 15°C	21±1	12	4	2	22	55.0	16.7	0.0	0.0	100.0
	10°C left hand	30, 10°C	21±1	10	4	2	22	55.0	30.0	50.0	0.0	90.9
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
	15°C index	30, 15°C	21±1	12	4	2	22	55.0	8.3	0.0	0.0	100.0
	middle	30, 15°C	21±1	12	3	2	22	55.0	16.7	0.0	0.0	100.0
	ring	30, 15°C	21±1	12	4	2	22	55.0	8.3	0.0	0.0	100.0
	little	30, 15°C	21±1	12	4	2	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	48	15	8	88	55.0	8.3	0.0	0.0	100.0
	10°C index	30, 10°C	21±1	10	4	2	22	55.0	0.0	50.0	0.0	100.0
	middle	30, 10°C	21±1	10	3	2	22	55.0	30.0	0.0	0.0	90.9
	ring	30, 10°C	21±1	10	4	2	22	55.0	20.0	0.0	0.0	100.0
	little	30, 10°C	21±1	10	4	2	22	55.0	0.0	0.0	0.0	100.0
	together	30, 10°C	21±1	40	15	8	88	55.0	12.5	13.3	0.0	97.7

All subjects were in sitting position. Cooling condition: finger cooling only.

表D  
Table 15 Sensitivity and specificity of the test involving FSBP% according to VL hand-based classification

Test conditions	Room t °C	VL3	VL2	VL0-1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VL3 group %	Sensitivity VL2 group %	Sensitivity VL0-1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C right hand	30, 15, 10°C	21±1	11	7	3	22	65.0	45.5	28.6	66.7	63.6
15°C right hand	30, 15°C	21±1	11	7	3	22	65.0	36.4	14.3	33.3	86.4
10°C right hand	30, 10°C	21±1	11	7	2	22	65.0	45.5	28.6	50.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	10	7	3	22	65.0	10.0	0.0	0.0	90.9
middle	30, 15°C	21±1	10	7	3	22	65.0	20.0	0.0	33.3	90.9
ring	30, 15°C	21±1	11	7	3	22	65.0	18.2	14.3	0.0	95.5
little	30, 15°C	21±1	10	7	3	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	41	28	12	88	65.0	12.2	3.6	8.3	94.3
10°C index	30, 10°C	21±1	11	7	2	22	65.0	27.3	28.6	0.0	90.9
middle	30, 10°C	21±1	10	6	2	22	65.0	30.0	0.0	50.0	90.9
ring	30, 10°C	21±1	11	7	1	22	65.0	18.2	14.3	0.0	90.9
little	30, 10°C	21±1	11	7	2	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	43	27	7	88	65.0	18.6	11.1	14.3	93.2
Data from the left hands of the patients and right hands of the controls											
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned											
15 and/or 10°C left hand	30, 15, 10°C	21±1	12	4	2	22	65.0	33.3	50.0	0.0	63.6
15°C left hand	30, 15°C	21±1	12	4	2	22	65.0	33.3	25.0	0.0	86.4
10°C left hand	30, 10°C	21±1	10	4	2	22	65.0	30.0	50.0	0.0	72.7
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)											
15°C index	30, 15°C	21±1	12	4	2	22	65.0	16.7	25.0	0.0	90.9
middle	30, 15°C	21±1	12	3	2	22	65.0	16.7	0.0	0.0	90.9
ring	30, 15°C	21±1	12	4	2	22	65.0	16.7	0.0	0.0	95.5
little	30, 15°C	21±1	12	4	2	22	65.0	0.0	0.0	0.0	100.0
together	30, 10°C	21±1	48	15	8	88	65.0	12.5	6.7	0.0	94.3
10°C index	30, 10°C	21±1	10	4	2	22	65.0	10.0	50.0	0.0	90.9
middle	30, 10°C	21±1	10	3	2	22	65.0	30.0	33.3	0.0	90.9
ring	30, 10°C	21±1	10	4	2	22	65.0	30.0	0.0	0.0	90.9
little	30, 10°C	21±1	10	4	2	22	65.0	10.0	0.0	0.0	100.0
together	30, 10°C	21±1	40	15	8	88	65.0	20.0	20.0	0.0	93.2

All subjects were in sitting position. Cooling condition: finger cooling only.

表D  
Table 16 Sensitivity and specificity of the test involving FSBP% according to VL hand-based classification

	Test conditions	Room t °C	VL3	VL2	VL0-1	Controls	Diagnostic criteria, FSBP% Cutoff point	Sensitivity VL3 group %	Sensitivity VL2 group %	Sensitivity VL0-1 group %	Specificity % (control group)	
Data from the right hands of the patients and controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
	15 and/or 10°C right hand	30, 15, 10°C	21±1	11	7	3	22	75.0	63.6	42.9	66.7	40.9
	15°C right hand	30, 15°C	21±1	11	7	3	22	75.0	36.4	14.3	33.3	45.5
	10°C right hand	30, 10°C	21±1	11	7	2	22	75.0	63.6	42.9	50.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
	15°C index	30, 15°C	21±1	10	7	3	22	75.0	20.0	14.3	33.3	72.7
	middle	30, 15°C	21±1	10	7	3	22	75.0	30.0	14.3	33.3	68.2
	ring	30, 15°C	21±1	11	7	3	22	75.0	18.2	14.3	0.0	77.3
	little	30, 15°C	21±1	10	7	3	22	75.0	10.0	14.3	0.0	95.5
	together	30, 10°C	21±1	41	28	12	88	75.0	19.5	14.3	16.7	78.4
	10°C index	30, 10°C	21±1	11	7	2	22	75.0	54.5	28.6	50.0	68.2
	middle	30, 10°C	21±1	10	6	2	22	75.0	60.0	16.7	50.0	77.3
	ring	30, 10°C	21±1	11	7	1	22	75.0	36.4	28.6	100.0	72.7
	little	30, 10°C	21±1	11	7	2	22	75.0	9.1	14.3	50.0	90.9
	together	30, 10°C	21±1	43	27	7	88	75.0	39.5	22.2	57.1	77.3
Data from the left hands of the patients and right hands of the controls												
Results of subjects' hand-based evaluation, positive if any finger of the hand concerned												
	15 and/or 10°C left hand	30, 15, 10°C	21±1	12	4	2	22	75.0	58.3	100.0	0.0	40.9
	15°C left hand	30, 15°C	21±1	12	4	2	22	75.0	50.0	50.0	0.0	45.5
	10°C left hand	30, 10°C	21±1	10	4	2	22	75.0	60.0	100.0	0.0	59.1
Calculations considering result(s) of subjects' finger(s) (finger-based evaluation)												
	15°C index	30, 15°C	21±1	12	4	2	22	75.0	41.7	50.0	0.0	72.7
	middle	30, 15°C	21±1	12	3	2	22	75.0	25.0	33.3	0.0	68.2
	ring	30, 15°C	21±1	12	4	2	22	75.0	25.0	25.0	0.0	77.3
	little	30, 15°C	21±1	12	4	2	22	75.0	0.0	0.0	0.0	95.5
	together	30, 10°C	21±1	48	15	8	88	75.0	22.9	26.7	0.0	78.4
	10°C index	30, 10°C	21±1	10	4	2	22	75.0	40.0	100.0	0.0	68.2
	middle	30, 10°C	21±1	10	3	2	22	75.0	30.0	33.3	0.0	77.3
	ring	30, 10°C	21±1	10	4	2	22	75.0	40.0	50.0	0.0	72.7
	little	30, 10°C	21±1	10	4	2	22	75.0	20.0	25.0	0.0	90.9
	together	30, 10°C	21±1	40	15	8	88	75.0	32.5	53.3	0.0	77.3

All subjects were in sitting position. Cooling condition: finger cooling only.

表D

Table 17 Evaluation using average scoring for hand-based classification according to current symptom

	Right hand				Left hand				Both hands				
	<0.5 number	≥0.5-<1.0 number	≥1.0 number	Total number	<0.5 number	≥0.5-<1.0 number	≥1.0 number	Total number	<0.5 number	≥0.5-<1.0 number	≥1.0 number	% of the total	Total number
VWF													
VWF(+)	0	1	4	5	3	1	1	5	3	2	5	50.0	10
VWF(-)	12	3	1	16	9	1	3	13	21	4	4	13.8	29
Control	16	5	1	22	0	0	0	0	16	5	1	4.5	22
SWS RP													
SW3	0	0	1	1	1	1	0	2	1	1	1	33.3	3
SW1-2	0	1	3	4	2	0	1	3	2	1	4	57.1	7
SW0	12	3	1	16	9	1	3	13	21	4	4	13.8	29
Control	16	5	1	22	0	0	0	0	16	5	1	4.5	22
VS													
VS3	1	0	2	3	4	0	0	4	5	0	2	28.6	7
VS2	8	2	3	13	5	2	3	10	13	4	6	26.1	23
VS1	3	2	0	5	3	0	1	4	6	2	1	11.1	9
Control	16	5	1	22	0	0	0	0	16	5	1	4.5	22
VL													
VL3	6	1	4	11	8	1	3	12	14	2	7	30.4	23
VL2	5	1	1	7	2	1	1	4	7	2	2	18.2	11
VL0-1	1	2	0	3	2	0	0	2	3	2	0	0.0	5
Control	16	5	1	22	0	0	0	0	16	5	1	4.5	22

%FSBP: >75.0 = 0, >65.0-≤75.0 = 1, >55-≤65.0 = 2, ≤55.0 = 3; cutoffs for average scores: <0.5, ≥0.5-<1.0, ≥1.0.

表1 振動療養者と対照者の振動感覚閾値 (dB, mean±SD, HVLab:ref=10<sup>-6</sup>m/s<sup>2</sup>, RION:ref=10<sup>-6</sup>m/s<sup>2</sup>)

	HVLab 31.5Hz						n	全指
	n	母指	示指	中指	環指	小指		
右手								
VWF(+)	5	118.3±10.4**	117.4± 8.1**	123.3± 8.2**	126.2± 8.1**	126.6±11.8**	25	122.3± 9.5**
VWF(-)	11	126.0±11.2**	126.2±11.9**	130.2±11.8**	129.8±11.7**	132.9±10.5**	55	129.0±11.3**
VWF(+)+VWF(-)	16	123.6±11.3**	123.5±11.4**	128.0±11.0**	128.7±10.6**	130.9±10.9**	80	126.9±11.2**
左手								
VWF(+)	6	121.8±12.5**	122.5±12.6**	121.4±11.7**	123.1±11.3**	123.0±11.4**	30	122.3±11.1**
VWF(-)	12	124.5± 9.5**	125.4±11.2**	127.0±10.4**	129.9±10.0**	129.4±11.3**	60	127.2±10.4**
VWF(+)+VWF(-)	18	123.6±10.3**	124.4±11.4**	125.1±10.9**	127.6±10.6**	127.3±11.5**	90	125.6±10.8**
右手 control	24	107.6± 6.5	104.9± 7.5	106.3± 5.3	107.3± 4.9	110.0± 5.1	120	107.2± 6.1

	HVLab 125Hz						RION 125Hz			
	n	母指	示指	中指	環指	小指	n	全指	n	中指
右手										
VWF(+)	5	128.8±10.6**	133.8± 7.5**	134.5± 8.1**	138.7± 5.8**	138.2± 9.9**	25	134.8± 8.6**	4	128.8± 4.3**
VWF(-)	11	137.1±11.2**	139.6±11.4**	141.1± 8.1**	140.2± 9.6**	144.1± 7.6**	55	140.4± 9.6**	11	135.7± 7.0**
VWF(+)+VWF(-)	16	134.5±11.4**	137.8±10.5**	139.0± 8.4**	139.8± 8.4**	142.3± 8.5**	80	138.7± 9.6**	15	133.9± 7.0**
左手										
VWF(+)	6	134.5± 9.7**	134.0± 8.5**	132.3± 9.5**	136.1± 8.3**	134.1±10.4**	30	134.2± 8.8**	4	134.5± 8.2**
VWF(-)	12	132.5±12.0**	136.2±10.7**	136.5± 9.9**	138.9± 9.4**	138.4±11.3**	60	136.5±10.6**	12	134.6± 8.4**
VWF(+)+VWF(-)	18	133.1±11.1**	135.5± 9.8**	135.1± 9.7**	138.0± 8.9**	137.0±10.9**	90	135.7±10.0**	16	134.5± 8.1**
右手 control	24	115.3± 8.4	114.9± 7.5	116.9± 7.3	118.4± 6.0	122.1± 7.4	119	117.5± 7.7	16	116.3± 4.9

・RIONの中指は(上昇閾値+下降閾値)/2を使用  
 ・HVLab 125Hz:の右手control小指のみn=23  
 ・\*:p<0.05; \*\*:p<0.01, Student t-test

表2 振動療養者と対照者のストックホルムワークショップスケール(sensorineural)における振動感覚閾値 (dB, mean±SD, HVLab:ref=10<sup>-6</sup>m/s<sup>2</sup>, RION:ref=10<sup>-6</sup>m/s<sup>2</sup>)

	HVLab 31.5Hz							n	全指
	n	母指	示指	中指	環指	小指			
右手									
SN(0-2)	10	118.7± 9.1**	119.8± 9.2**	123.8±10.5**	124.4± 9.8**	125.2± 8.9**	50	122.4± 9.5**	
SN(3)	6	131.7±10.3**	129.7±12.7**	135.1± 8.5**	135.7± 8.2**	140.5± 6.3**	30	134.5± 9.6**	
左手									
SN(0-2)	13	120.8±10.5**	121.6±11.1**	122.5±10.8**	124.7±10.7**	123.3±10.6**	65	122.6±10.5**	
SN(3)	5	130.9± 5.0**	131.7± 9.2**	131.9± 8.6**	135.3± 6.0**	137.6± 6.0**	25	133.5± 7.0**	
右手 control	24	107.6± 6.5	104.9± 7.5	106.3± 5.3	107.3± 4.9	110.0± 5.1	120	107.2± 6.1	

	HVLab 125Hz						RION 125Hz			
	n	母指	示指	中指	環指	小指	n	全指	n	中指
右手										
SN(0-2)	10	129.3± 9.3**	134.1± 9.6**	135.3± 7.2**	136.8± 8.5**	138.4± 8.1**	50	134.8± 8.8**	9	129.9± 4.8**
SN(3)	6	143.2± 9.6**	143.9± 9.7**	145.2± 6.7**	144.7± 6.2**	148.7± 4.3**	30	145.1± 7.3**	6	139.8± 5.5**
左手										
SN(0-2)	13	129.9±11.4**	132.5± 9.6**	132.7±10.1**	135.6± 9.1**	133.4±10.7**	65	132.8±10.1**	11	133.0± 8.8**
SN(3)	5	141.6± 2.1**	143.3± 5.5**	141.3± 5.5**	144.0± 4.7**	146.5± 2.9**	25	143.3± 4.4**	5	138.0± 5.6**
右手 control	24	115.3± 8.4	114.9± 7.5	116.9± 7.3	118.4± 6.0	122.1± 7.4	119	117.5± 7.7	16	116.3± 4.9

・RIONの中指は(上昇閾値+下降閾値)/2を使用

・HVLab 125Hzの右手control小指のみn=23

・\*:p<0.05; \*\*:p<0.01, Student t-test

表3 振動療養者と対照者の厚生労働省分類における振動感覚閾値 (dB, mean±SD, HVLab:ref=10<sup>-6</sup>m/s<sup>2</sup>, RION:ref=10<sup>-6</sup>m/s<sup>2</sup>)

		HVLab 31.5Hz							
		n	母指	示指	中指	環指	小指	n	全指
右手									
NS(1-2)		7	119.4± 9.6**	120.1±11.0**	125.8±11.8**	126.8±11.1**	127.6±10.2**	35	123.9±10.7**
NS(3)		9	126.9±11.9**	126.1±11.6**	129.8±10.7**	130.1±10.6**	133.4±11.4**	45	129.3±11.0**
左手									
NS(1-2)		10	119.0± 9.8**	119.0±10.8**	119.2± 9.7**	122.8±10.5**	121.4± 9.9**	50	120.3± 9.9**
NS(3)		8	129.5± 8.0**	131.1± 8.3**	132.6± 7.1**	133.7± 7.7**	134.6± 9.0**	40	132.3± 7.8**
右手 control		24	107.6± 6.5	104.9± 7.5	106.3± 5.3	107.3± 4.9	110.0± 5.1	120	107.2± 6.1

  

		HVLab 125Hz						RION 125Hz			
		n	母指	示指	中指	環指	小指	n	全指	n	中指
右手											
NS(1-2)		7	130.1±11.3**	135.1±11.2**	135.5± 9.6**	137.5± 9.9**	139.2± 8.3**	35	135.5±10.0**	6	131.4± 6.2**
NS(3)		9	138.0±10.9**	139.8±10.1**	141.8± 6.7**	141.5± 7.2**	144.7± 8.3**	45	141.1± 8.7**	9	135.5± 7.4**
左手											
NS(1-2)		10	128.6±11.0**	130.5± 8.2**	129.3± 8.5**	133.4± 8.0**	131.7±10.6**	50	130.7± 9.1**	8	131.0± 7.3**
NS(3)		8	138.8± 8.7**	141.7± 8.2**	142.3± 5.3**	143.6± 6.6**	143.6± 7.4**	40	142.0± 7.2**	8	138.1± 7.6**
右手 control		24	115.3± 8.4	114.9± 7.5	116.9± 7.3	118.4± 6.0	122.1± 7.4	119	117.5± 7.7	16	116.3± 4.9

  

		HVLab 31.5Hz							
		n	母指	示指	中指	環指	小指	n	全指
右手									
NL(1-2)		10	121.8±10.3**	120.5±11.5**	126.5±10.2**	126.8± 9.6**	129.3±11.3**	50	125.0±10.7**
NL(3)		6	126.6±13.1**	128.5±10.0**	130.6±12.8**	131.8±12.3**	133.6±10.7**	30	130.2±11.3**
左手									
NL(1-2)		9	124.8± 8.3**	125.6± 9.6**	125.9±10.3**	129.3±10.6**	130.7± 9.4**	45	127.2± 9.5**
NL(3)		9	122.5±12.4**	123.2±13.4**	124.3±12.0**	126.0±11.0**	123.9±12.8*	45	124.0±11.8**
右手 control		24	107.6± 6.5	104.9± 7.5	106.3± 5.3	107.3± 4.9	110.0± 5.1	120	107.2± 6.1

  

		HVLab 125Hz						RION 125Hz			
		n	母指	示指	中指	環指	小指	n	全指	n	中指
右手											
NL(1-2)		10	133.0±10.6**	136.3±10.4**	137.3± 8.5**	138.1± 7.1**	140.0± 8.6**	50	136.9± 9.0**	9	134.1± 8.7**
NL(3)		6	137.1±13.3**	140.2±11.2**	142.0± 8.0**	142.5±10.5**	146.1± 7.5**	30	141.6±10.0**	6	133.5± 3.9**
左手											
NL(1-2)		9	134.0±11.5**	136.1±11.3**	135.6±11.5**	138.0± 8.9**	139.3± 9.3**	45	136.6±10.3**	9	134.9± 9.3**
NL(3)		9	132.2±11.2**	134.9± 8.8**	134.6± 8.2**	137.9± 9.4**	134.7±12.5*	45	134.9± 9.8**	7	134.1± 7.0**
右手 control		24	115.3± 8.4	114.9± 7.5	116.9± 7.3	118.4± 6.0	122.1± 7.4	119	117.5± 7.7	16	116.3± 4.9

・RIONの中指は(上昇閾値+下降閾値)/2を使用  
 ・HVLab 125Hzの右手control小指のみn=23  
 ・\*:p<0.05; \*\*:p<0.01, Student t-test

7  
V

表4 振動療養者と対照者の振動感覚閾値における敏感度と特異度

右手	HVLab 31.5Hz (基準値:117dB)						HVLab 125Hz (基準値:130dB)						RION (基準値:125dB)
	母指	示指	中指	環指	小指	全指	母指	示指	中指	環指	小指	全指	中指
VWF(+)													
n	5	5	5	5	5	25	5	5	5	5	5	25	4
positive/n	2/5	2/5	4/5	4/5	3/5	15/25	1/5	3/5	4/5	5/5	4/5	17/25	3/4
敏感度(%)	40	40	80	80	60	60	20	60	80	100	80	68	75
VWF(-)													
n	11	11	11	11	11	55	11	11	11	11	11	55	11
positive/n	8/11	7/11	9/11	9/11	10/11	43/55	8/11	8/11	9/11	9/11	10/11	44/55	10/11
敏感度(%)	72.7	63.6	81.8	81.8	90.9	78.2	72.7	72.7	81.8	81.8	90.9	80	90.9
VWF(+)+VWF(-)													
n	16	16	16	16	16	80	16	16	16	16	16	80	15
positive/n	10/16	9/16	13/16	13/16	13/16	58/80	9/16	11/16	13/16	14/16	14/16	61/80	13/15
敏感度(%)	62.5	56.3	81.3	81.3	81.3	72.5	56.3	68.8	81.3	87.5	87.5	76.3	86.7
コントロール													
n	24	24	24	24	24	120	24	24	24	24	23	119	16
positive/n	1/24	1/24	1/24	0/24	2/24	5/120	0/24	0/24	1/24	0/24	4/23	5/119	0/16
特異度(%)	95.8	95.8	95.8	100	91.7	95.8	100	100	95.8	100	82.6	95.8	100

\* RIONの中指は(上昇閾値+下降閾値)/2を使用

左手	HVLab 31.5Hz (基準値:117dB)						HVLab 125Hz (基準値:130dB)						RION (基準値:125dB)
	母指	示指	中指	環指	小指	全指	母指	示指	中指	環指	小指	全指	中指
VWF(+)													
n	6	6	6	6	6	30	6	6	6	6	6	30	4
positive/n	4/6	4/6	3/6	4/6	4/6	19/30	4/6	4/6	4/6	4/6	4/6	20/30	3/4
敏感度(%)	66.7	66.7	50	66.7	66.7	63.3	66.7	66.7	66.7	66.7	66.7	66.7	75
VWF(-)													
n	12	12	12	12	12	60	12	12	12	12	12	60	12
positive/n	9/12	10/12	10/12	11/12	9/12	49/60	7/12	8/12	9/12	9/12	10/12	43/60	10/12
敏感度(%)	75	83.3	83.3	91.7	75	81.7	58.3	66.7	75	75	83.3	71.7	83.3
VWF(+)+VWF(-)													
n	18	18	18	18	18	90	18	18	18	18	18	90	16
positive/n	13/18	14/18	13/18	15/18	13/18	68/90	11/18	12/18	13/18	13/18	14/18	63/90	13/16
敏感度(%)	72.2	77.8	72.2	83.3	72.2	75.6	61.1	66.7	72.2	72.2	77.8	70	81.3
コントロール													
n	2	2	2	2	2	10	2	2	2	2	2	10	2
positive/n	0/2	0/2	0/2	0/2	0/2	0/10	0/2	0/2	0/2	0/2	0/2	0/10	0/2
特異度(%)	100	100	100	100	100	100	100	100	100	100	100	100	100

\* RIONの中指は(上昇閾値+下降閾値)/2を使用



F  
V

表5 振動療養者と対照者の振動感覚閾値における敏感度と特異度(ストックホルムワークショップスケールのsensorineuralで区分)

右手	HVLab 31.5Hz (基準値:117dB)						HVLab 125Hz (基準値:130dB)						RION (基準値:125dB) 中指
	母指	示指	中指	環指	小指	全指	母指	示指	中指	環指	小指	全指	
SN(0-1)													
n	2	2	2	2	2	10	2	2	2	2	2	10	2
positive/n	2/2	2/2	2/2	1/2	1/2	8/10	1/2	1/2	1/2	2/2	1/2	6/10	1/2
敏感度(%)	100	100	100	50	50	80	50	50	50	100	50	60	50
SN(2)													
n	8	8	8	8	8	40	8	8	8	8	8	40	7
positive/n	3/8	3/8	5/8	6/8	6/8	23/40	2/8	5/8	6/8	6/8	7/8	26/40	6/7
敏感度(%)	37.5	37.5	62.5	75	75	57.5	25	62.5	75	75	87.5	65	85.7
SN(3)													
n	6	6	6	6	6	30	6	6	6	6	6	30	6
positive/n	5/6	4/6	6/6	6/6	6/6	27/30	6/6	5/6	6/6	6/6	6/6	29/30	6/6
敏感度(%)	83.3	66.7	100	100	100	90	100	83.3	100	100	100	96.7	100
コントロール													
n	24	24	24	24	24	120	24	24	24	24	23	119	16
positive/n	1/24	1/24	1/24	0/24	2/24	5/120	0/24	0/24	1/24	0/24	4/23	5/119	0/16
特異度(%)	95.8	95.8	95.8	100	91.7	95.8	100	100	95.8	100	82.6	95.8	100

\* RIONの中指は(上昇閾値+下降閾値)/2を使用

左手	HVLab 31.5Hz (基準値:117dB)						HVLab 125Hz (基準値:130dB)						RION (基準値:125dB) 中指
	母指	示指	中指	環指	小指	全指	母指	示指	中指	環指	小指	全指	
SN(0-1)													
n	2	2	2	2	2	10	2	2	2	2	2	10	1
positive/n	0/2	0/2	0/2	0/2	0/2	0/10	0/2	0/2	0/2	0/2	1/2	1/10	0/1
敏感度(%)	0	0	0	0	0	0	0	0	0	0	50	10	0
SN(2)													
n	11	11	11	11	11	55	11	11	11	11	11	55	10
positive/n	8/11	9/11	8/11	10/11	8/11	43/55	6/11	7/11	8/11	8/11	8/11	37/55	8/10
敏感度(%)	72.7	81.8	72.7	90.9	72.7	78.2	54.5	63.6	72.7	72.7	72.7	67.3	80
SN(3)													
n	5	5	5	5	5	25	5	5	5	5	5	25	5
positive/n	5/5	5/5	5/5	5/5	5/5	25/25	5/5	5/5	5/5	5/5	5/5	25/25	5/5
敏感度(%)	100	100	100	100	100	100	100	100	100	100	100	100	100
コントロール													
n	2	2	2	2	2	10	2	2	2	2	2	10	2
positive/n	0/2	0/2	0/2	0/2	0/2	0/10	0/2	0/2	0/2	0/2	0/2	0/10	0/2
特異度(%)	100	100	100	100	100	100	100	100	100	100	100	100	100

\* RIONの中指は(上昇閾値+下降閾値)/2を使用