

s 6. QALE(Quality-Adjusted Life Expectancy: 質調整平均余命)活用方法の検討

s 6.2 QALE 算定方法の検討

s 6.2.3 各変数の算定方法

(3) 生存関数: $P^s(t/z)$

表s 6-1 年齢別性別生存率(第23回生命表)

年齢	生存率		年齢	生存率		年齢	生存率	
	男	女		男	女		男	女
0	0.99816	0.99828	38	0.99923	0.99950	76	0.97054	0.98736
1	0.99976	0.99983	39	0.99916	0.99946	77	0.96749	0.98567
2	0.99983	0.99988	40	0.99907	0.99942	78	0.96428	0.98374
3	0.99989	0.99991	41	0.99898	0.99937	79	0.96061	0.98147
4	0.99992	0.99993	42	0.99888	0.99932	80	0.95616	0.97883
5	0.99994	0.99993	43	0.99877	0.99926	81	0.95092	0.97577
6	0.99994	0.99993	44	0.99865	0.99918	82	0.94480	0.97217
7	0.99995	0.99994	45	0.99851	0.99909	83	0.93774	0.96789
8	0.99995	0.99994	46	0.99836	0.99901	84	0.92968	0.96287
9	0.99995	0.99995	47	0.99821	0.99892	85	0.92063	0.95711
10	0.99994	0.99995	48	0.99802	0.99881	86	0.91035	0.95046
11	0.99993	0.99994	49	0.99781	0.99869	87	0.89882	0.94274
12	0.99991	0.99993	50	0.99757	0.99855	88	0.88619	0.93375
13	0.99989	0.99992	51	0.99731	0.99842	89	0.87266	0.92364
14	0.99986	0.99991	52	0.99705	0.99829	90	0.85808	0.91230
15	0.99982	0.99989	53	0.99676	0.99819	91	0.84201	0.89896
16	0.99978	0.99986	54	0.99644	0.99808	92	0.82414	0.88321
17	0.99972	0.99983	55	0.99608	0.99796	93	0.80434	0.86523
18	0.99967	0.99981	56	0.99568	0.99782	94	0.78374	0.84576
19	0.99962	0.99980	57	0.99527	0.99767	95	0.76339	0.82465
20	0.99956	0.99978	58	0.99483	0.99753	96	0.74472	0.80442
21	0.99951	0.99977	59	0.99434	0.99737	97	0.72571	0.78345
22	0.99948	0.99976	60	0.99376	0.99719	98	0.70637	0.76173
23	0.99948	0.99975	61	0.99309	0.99695	99	0.68671	0.73930
24	0.99949	0.99975	62	0.99235	0.99667	100	0.66676	0.71615
25	0.99951	0.99975	63	0.99159	0.99639	101	0.64654	0.69233
26	0.99951	0.99975	64	0.99078	0.99610	102	0.62606	0.66786
27	0.99951	0.99974	65	0.98990	0.99578	103	0.60537	0.64278
28	0.99951	0.99974	66	0.98885	0.99539	104	0.58448	0.61713
29	0.99950	0.99973	67	0.98759	0.99493	105	0.56342	0.59097
30	0.99948	0.99973	68	0.98622	0.99442	106	0.54223	0.56436
31	0.99945	0.99973	69	0.98482	0.99387	107	0.52095	0.53737
32	0.99940	0.99972	70	0.98322	0.99319	108	0.49961	0.51007
33	0.99936	0.99969	71	0.98157	0.99246	109	0.47824	0.48255
34	0.99932	0.99965	72	0.97988	0.99170	110	0.45690	0.45491
35	0.99930	0.99961	73	0.97795	0.99083	111	0.43562	0.42724
36	0.99929	0.99957	74	0.97577	0.98986	112	0.41444	0.39965
37	0.99927	0.99954	75	0.97328	0.98873	113	0.39342	0.37226
						114		0.34518

出所) 第23回生命表(2022年3月)

s 6.2.4 交通事故に遭わなかった場合(without)のQALE^{wo}の試算

40～49歳(45歳)男性のケース1とケース2におけるQALE^{wo}の流列表は以下のとおり整理することができる。

表s 6-2 交通事故に遭わなかった場合のQALE^{wo}の流列表
(ケース1:40～49歳(45歳)男性の例)

年齢	QOL		生存率	QOL(現在価値) ×生存率	年齢	QOL		生存率	QOL(現在価値) ×生存率
	割引前	現在価値				割引前	現在価値		
45	0.947	0.947	0.99851	0.94559	80	0.821	0.411	0.95616	0.39253
46	0.947	0.928	0.99836	0.92691	81	0.821	0.402	0.95092	0.38272
47	0.947	0.910	0.99821	0.90860	82	0.821	0.395	0.94480	0.37280
48	0.947	0.892	0.99802	0.89061	83	0.821	0.387	0.93774	0.36276
49	0.947	0.875	0.99781	0.87297	84	0.821	0.379	0.92968	0.35259
50	0.931	0.843	0.99757	0.84119	85	0.821	0.372	0.92063	0.34231
51	0.931	0.827	0.99731	0.82448	86	0.821	0.365	0.91035	0.33185
52	0.931	0.810	0.99705	0.80810	87	0.821	0.357	0.89882	0.32122
53	0.931	0.795	0.99676	0.79203	88	0.821	0.350	0.88619	0.31050
54	0.931	0.779	0.99644	0.77625	89	0.821	0.344	0.87266	0.29976
55	0.931	0.764	0.99608	0.76075	90	0.821	0.337	0.85808	0.28898
56	0.931	0.749	0.99568	0.74553	91	0.821	0.330	0.84201	0.27800
57	0.931	0.734	0.99527	0.73061	92	0.821	0.324	0.82414	0.26677
58	0.931	0.720	0.99483	0.71597	93	0.821	0.317	0.80434	0.25526
59	0.931	0.706	0.99434	0.70159	94	0.821	0.311	0.78374	0.24384
60	0.930	0.691	0.99376	0.68669	95	0.821	0.305	0.76339	0.23285
61	0.930	0.677	0.99309	0.67277	96	0.821	0.299	0.74472	0.22270
62	0.930	0.664	0.99235	0.65909	97	0.821	0.293	0.72571	0.21276
63	0.930	0.651	0.99159	0.64567	98	0.821	0.287	0.70637	0.20303
64	0.930	0.638	0.99078	0.63249	99	0.821	0.282	0.68671	0.19351
65	0.930	0.626	0.98990	0.61954	100	0.821	0.276	0.66676	0.18421
66	0.930	0.614	0.98885	0.60675	101	0.821	0.271	0.64654	0.17512
67	0.930	0.602	0.98759	0.59409	102	0.821	0.266	0.62606	0.16625
68	0.930	0.590	0.98622	0.58164	103	0.821	0.260	0.60537	0.15760
69	0.930	0.578	0.98482	0.56942	104	0.821	0.255	0.58448	0.14918
70	0.889	0.542	0.98322	0.53278	105	0.821	0.250	0.56342	0.14098
71	0.889	0.531	0.98157	0.52146	106	0.821	0.245	0.54223	0.13302
72	0.889	0.521	0.97988	0.51035	107	0.821	0.241	0.52095	0.12529
73	0.889	0.511	0.97795	0.49936	108	0.821	0.236	0.49961	0.11780
74	0.889	0.501	0.97577	0.48848	109	0.821	0.231	0.47824	0.11055
75	0.889	0.491	0.97328	0.47768	110	0.821	0.227	0.45690	0.10355
76	0.889	0.481	0.97054	0.46699	111	0.821	0.222	0.43562	0.09679
77	0.889	0.472	0.96749	0.45640	112	0.821	0.218	0.41444	0.09028
78	0.889	0.462	0.96428	0.44596	113	0.821	0.214	0.39342	0.08402
79	0.889	0.453	0.96061	0.43556	ケース1: QALE ^{wo,45,m}				31.0458

表s 6-3 交通事故に遭わなかった場合のQALE^{wo} の流列表
(ケース2:40~49歳(45歳)男性の例)

年齢	QOL		年齢	QOL	
	割引前	現在価値		割引前	現在価値
45	0.947	0.9470	64	0.930	0.6384
46	0.947	0.9284	65	0.930	0.6259
47	0.947	0.9102	66	0.930	0.6136
48	0.947	0.8924	67	0.930	0.6016
49	0.947	0.8749	68	0.930	0.5898
50	0.931	0.8432	69	0.930	0.5782
51	0.931	0.8267	70	0.889	0.5419
52	0.931	0.8105	71	0.889	0.5312
53	0.931	0.7946	72	0.889	0.5208
54	0.931	0.7790	73	0.889	0.5106
55	0.931	0.7637	74	0.889	0.5006
56	0.931	0.7488	75	0.889	0.4908
57	0.931	0.7341	76	0.889	0.4812
58	0.931	0.7197	77	0.889	0.4717
59	0.931	0.7056	78	0.889	0.4625
60	0.930	0.6910	79	0.889	0.4534
61	0.930	0.6775	80	0.821	0.4105
62	0.930	0.6642	81	0.821	0.4025
63	0.930	0.6511	81.72	0.591	0.2841
			ケース2:QALE ^{wo,45,m}		24.6718

s 6.2.6 負傷状態別の損失 QALE の比率試算結果

ケース1、ケース2ともに、性、年齢階層にかかわらず交通事故により負傷した場合の QALE^w は、負傷状態が重度になるほど、また年齢層が高くなるほど小さくなる。また、両ケースの損失 QALE の比率は、同じ負傷区分であれば、性別、各年齢階層でほとんど差がみられない。

表s 6-4 性別年齢階層別にみた交通事故による QALE の差分と比率
(ケース 1: 割引率 2%)

年齢階層	負傷	ケース1 (割引率:2%)							
		交通事故に遭わない 場合: QALE ^{wo}		交通事故により負傷 した場合: QALE ^w		交通事故による 損失QALE [-]		交通事故による 損失QALEの比率 [(-)/]	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	41.4552	41.2346	-1.0550	-1.0494	42.5102	42.2840	102.54%	102.54%
	E			21.0774	20.9663	20.3779	20.2683	49.16%	49.15%
	Y			26.6025	26.4615	14.8528	14.7731	35.83%	35.83%
	O			31.9838	31.8138	9.4714	9.4208	22.85%	22.85%
	S			33.8501	33.6701	7.6051	7.5646	18.35%	18.35%
	A			41.4427	41.2222	0.0126	0.0124	0.030%	0.030%
5~9歳	Q	40.5791	40.3938	-1.0327	-1.0280	41.6118	41.4218	102.54%	102.54%
	E			20.6279	20.5350	19.9512	19.8589	49.17%	49.16%
	Y			26.0381	25.9199	14.5410	14.4739	35.83%	35.83%
	O			31.3071	31.1644	9.2720	9.2294	22.85%	22.85%
	S			33.1344	32.9832	7.4447	7.4106	18.35%	18.35%
	A			40.5665	40.3814	0.0126	0.0124	0.031%	0.031%
10~14歳	Q	39.6116	39.4654	-1.0081	-1.0044	40.6196	40.4698	102.54%	102.54%
	E			20.1315	20.0587	19.4800	19.4067	49.18%	49.17%
	Y			25.4149	25.3219	14.1967	14.1435	35.84%	35.84%
	O			30.5599	30.4473	9.0517	9.0181	22.85%	22.85%
	S			32.3440	32.2248	7.2675	7.2406	18.35%	18.35%
	A			39.5990	39.4530	0.0126	0.0124	0.032%	0.031%
15~19歳	Q	38.5438	38.4405	-0.9809	-0.9783	39.5247	39.4188	102.54%	102.54%
	E			19.5838	19.5329	18.9600	18.9076	49.19%	49.19%
	Y			24.7271	24.6617	13.8166	13.7788	35.85%	35.84%
	O			29.7352	29.6558	8.8086	8.7847	22.85%	22.85%
	S			31.4718	31.3876	7.0720	7.0529	18.35%	18.35%
	A			38.5312	38.4281	0.0126	0.0124	0.033%	0.032%
20代	Q	36.7451	36.6496	-0.9351	-0.9327	37.6802	37.5823	102.54%	102.54%
	E			18.6663	18.6169	18.0788	18.0327	49.20%	49.20%
	Y			23.5713	23.5096	13.1738	13.1400	35.85%	35.85%
	O			28.3469	28.2731	8.3982	8.3765	22.86%	22.86%
	S			30.0028	29.9248	6.7422	6.7248	18.35%	18.35%
	A			36.7329	36.6374	0.0122	0.0122	0.033%	0.033%
30代	Q	34.1657	34.0826	-0.8695	-0.8674	35.0352	34.9500	102.54%	102.54%
	E			17.3427	17.3017	16.8231	16.7809	49.24%	49.24%
	Y			21.9097	21.8571	12.2560	12.2255	35.87%	35.87%
	O			26.3547	26.2908	7.8111	7.7918	22.86%	22.86%
	S			27.8958	27.8280	6.2700	6.2546	18.35%	18.35%
	A			34.1535	34.0705	0.0122	0.0121	0.036%	0.036%
40代	Q	31.0458	31.0039	-0.7901	-0.7890	31.8358	31.7929	102.54%	102.54%
	E			15.7434	15.7222	15.3024	15.2817	49.29%	49.29%
	Y			19.9008	19.8740	11.1450	11.1300	35.90%	35.90%
	O			23.9452	23.9130	7.1005	7.0910	22.87%	22.87%
	S			25.3472	25.3130	5.6986	5.6909	18.36%	18.36%
	A			31.0336	30.9918	0.0122	0.0121	0.039%	0.039%
50代	Q	27.3775	27.3597	-0.6967	-0.6963	28.0742	28.0560	102.54%	102.54%
	E			13.8650	13.8567	13.5125	13.5030	49.36%	49.35%
	Y			17.5398	17.5288	9.8377	9.8309	35.93%	35.93%
	O			21.1127	21.0991	6.2648	6.2606	22.88%	22.88%
	S			22.3509	22.3364	5.0266	5.0233	18.36%	18.36%
	A			27.3655	27.3478	0.0119	0.0119	0.044%	0.043%
60代	Q	23.0439	23.0386	-0.5864	-0.5863	23.6303	23.6249	102.54%	102.54%
	E			11.6431	11.6399	11.4008	11.3987	49.47%	49.48%
	Y			14.7491	14.7455	8.2948	8.2931	36.00%	36.00%
	O			17.7659	17.7617	5.2780	5.2769	22.90%	22.90%
	S			18.8109	18.8066	4.2330	4.2320	18.37%	18.37%
	A			23.0320	23.0267	0.0118	0.0119	0.051%	0.052%
70代以上	Q	15.4020	15.3660	-0.3920	-0.3910	15.7939	15.7571	102.54%	102.54%
	E			7.7490	7.7359	7.6530	7.6302	49.69%	49.66%
	Y			9.8406	9.8203	5.5613	5.5457	36.11%	36.09%
	O			11.8684	11.8416	3.5336	3.5244	22.94%	22.94%
	S			12.5703	12.5413	2.8317	2.8247	18.39%	18.38%
	A			15.3919	15.3563	0.0101	0.0097	0.066%	0.063%

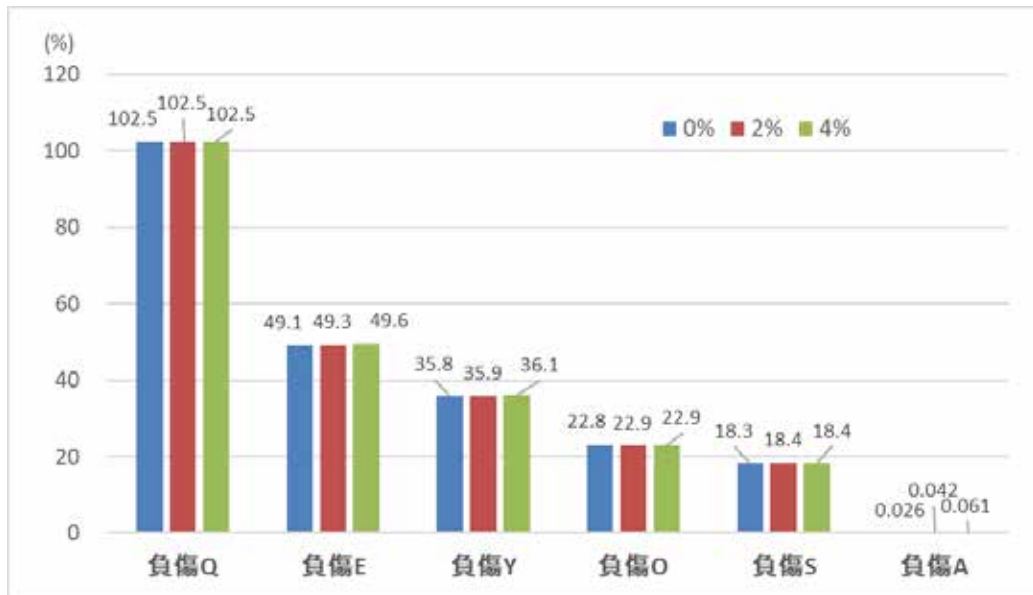
表s 6-5 性別年齢階層別にみた交通事故による QALE の差分と比率
(ケース 2: 割引率 2%)

年齢階層	負傷	ケース2(割引率: 2%)							
		交通事故に遭わない 場合: QALE ^{wo}		交通事故により負傷 した場合: QALE ^w		交通事故による 損失QALE 【 - 】		交通事故による 損失QALEの比率 【(-)/ 】	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	38.5782	39.2222	-0.9818	-0.9982	39.5600	40.2203	102.54%	102.54%
	E			19.6014	19.9339	18.9768	19.2883	49.19%	49.18%
	Y			24.7493	25.1652	13.8289	14.0570	35.85%	35.84%
	O			29.7617	30.2595	8.8165	8.9627	22.85%	22.85%
	S			31.4999	32.0261	7.0783	7.1961	18.35%	18.35%
5~9歳	A	37.4097	38.1762	38.5656	39.2097	0.0126	0.0124	0.033%	0.032%
	Q			-0.9520	-0.9715	38.3617	39.1478	102.54%	102.54%
	E			19.0019	19.3973	18.4078	18.7789	49.21%	49.19%
	Y			23.9966	24.4915	13.4131	13.6847	35.85%	35.85%
	O			28.8592	29.4517	8.5504	8.7246	22.86%	22.85%
10~14歳	S	36.1162	37.0202	30.5453	31.1717	6.8643	7.0045	18.35%	18.35%
	A			37.3971	38.1638	0.0126	0.0124	0.034%	0.033%
	Q			-0.9191	-0.9421	37.0353	37.9623	102.54%	102.54%
	E			18.3383	18.8042	17.7779	18.2160	49.22%	49.21%
	Y			23.1634	23.7469	12.9527	13.2733	35.86%	35.85%
15~19歳	O	34.6954	35.7481	27.8602	28.5588	8.2560	8.4614	22.86%	22.86%
	S			29.4887	30.2273	6.6275	6.7929	18.35%	18.35%
	A			36.1036	37.0078	0.0126	0.0124	0.035%	0.034%
	Q			-0.8830	-0.9098	35.5783	36.6578	102.54%	102.54%
	E			17.6094	18.1516	17.0860	17.5965	49.25%	49.22%
20代	Y	32.2891	33.5200	22.2483	22.9275	12.4471	12.8206	35.88%	35.86%
	O			26.7629	27.5763	7.9325	8.1718	22.86%	22.86%
	S			28.3280	29.1882	6.3673	6.5599	18.35%	18.35%
	A			34.6828	35.7357	0.0126	0.0124	0.036%	0.035%
	Q			-0.8217	-0.8530	33.1108	34.3730	102.54%	102.54%
30代	E	28.8187	30.3080	16.3802	17.0113	15.9089	16.5087	49.27%	49.25%
	Y			20.7011	21.4937	11.5880	12.0263	35.89%	35.88%
	O			24.9053	25.8559	7.3838	7.6641	22.87%	22.86%
	S			26.3628	27.3683	5.9263	6.1517	18.35%	18.35%
	A			32.2768	33.5077	0.0122	0.0123	0.038%	0.037%
40代	Q	24.6718	26.4859	-0.7334	-0.7713	29.5522	31.0793	102.54%	102.54%
	E			14.5994	15.3652	14.2193	14.9428	49.34%	49.30%
	Y			18.4655	19.4257	10.3532	10.8823	35.93%	35.91%
	O			22.2249	23.3755	6.5938	6.9325	22.88%	22.87%
	S			23.5279	24.7446	5.2909	5.5635	18.36%	18.36%
50代	A	19.9535	22.0549	28.8065	30.2959	0.0123	0.0121	0.043%	0.040%
	Q			-0.6279	-0.6740	25.2997	27.1599	102.54%	102.54%
	E			12.4731	13.4042	12.1987	13.0817	49.44%	49.39%
	Y			15.7950	16.9637	8.8768	9.5222	35.98%	35.95%
	O			19.0223	20.4235	5.6495	6.0624	22.90%	22.89%
60代	S	14.7645	16.9377	20.1404	21.6223	4.5315	4.8636	18.37%	18.36%
	A			24.6597	26.4738	0.0122	0.0121	0.049%	0.046%
	Q			-0.5078	-0.5613	20.4613	22.6161	102.54%	102.54%
	E			10.0556	11.1348	9.8978	10.9200	49.60%	49.51%
	Y			12.7575	14.1116	7.1960	7.9432	36.06%	36.02%
70代以上	O	7.0688	8.5016	15.3786	17.0019	4.5748	5.0530	22.93%	22.91%
	S			16.2862	18.0029	3.6672	4.0519	18.38%	18.37%
	A			19.9415	22.0430	0.0120	0.0119	0.060%	0.054%
	Q			-0.3757	-0.4310	15.1402	17.3687	102.54%	102.54%
	E			7.3937	8.5092	7.3707	8.4284	49.92%	49.76%
70代以上	Y	7.0688	8.5016	9.4152	10.8153	5.3493	6.1223	36.23%	36.15%
	O			11.3710	13.0495	3.3935	3.8881	22.98%	22.96%
	S			12.0474	13.8227	2.7171	3.1150	18.40%	18.39%
	A			14.7525	16.9257	0.0120	0.0119	0.081%	0.070%
	Q			-0.1799	-0.2164	7.2487	8.7180	102.54%	102.54%
70代以上	E	7.0688	8.5016	3.4669	4.2111	3.6019	4.2905	50.95%	50.47%
	Y			4.4694	5.3971	2.5994	3.1045	36.77%	36.52%
	O			5.4311	6.5393	1.6377	1.9623	23.17%	23.08%
	S			5.7625	6.9336	1.3063	1.5680	18.48%	18.44%
	A			7.0582	8.4916	0.0106	0.0099	0.149%	0.117%

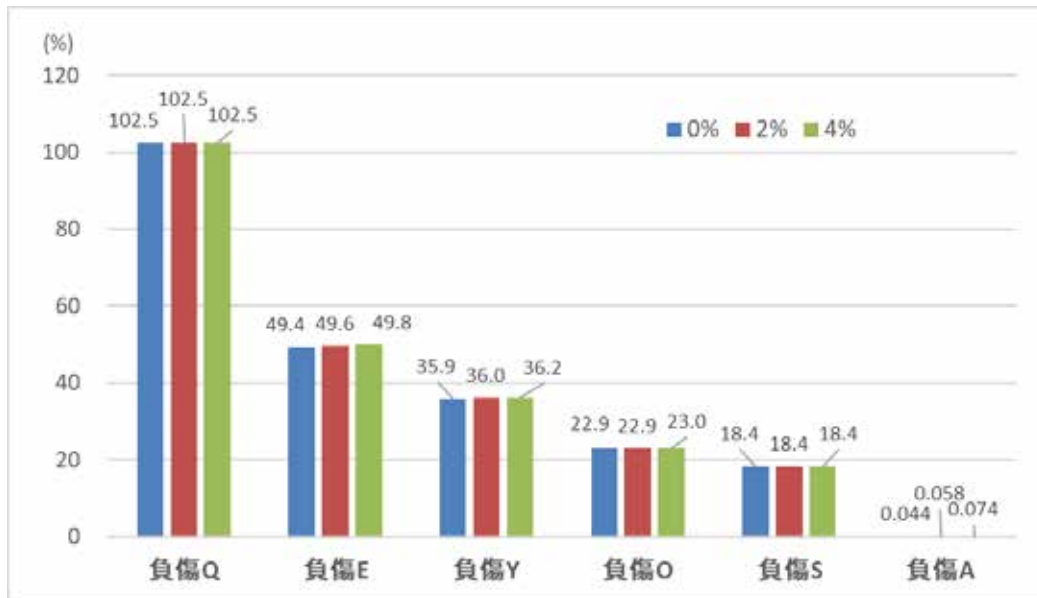
s 6.2.7 感度分析の実施

割引率の大きさが QALE の差分および比率に与える影響について分析するため、割引率を 0%、2%、4%としたときの値を比較した。

まず、損失 QALE の比率については、両ケースともに同じ負傷状態であれば、割引率の大きさに関わらずほぼ一定の値となっている。

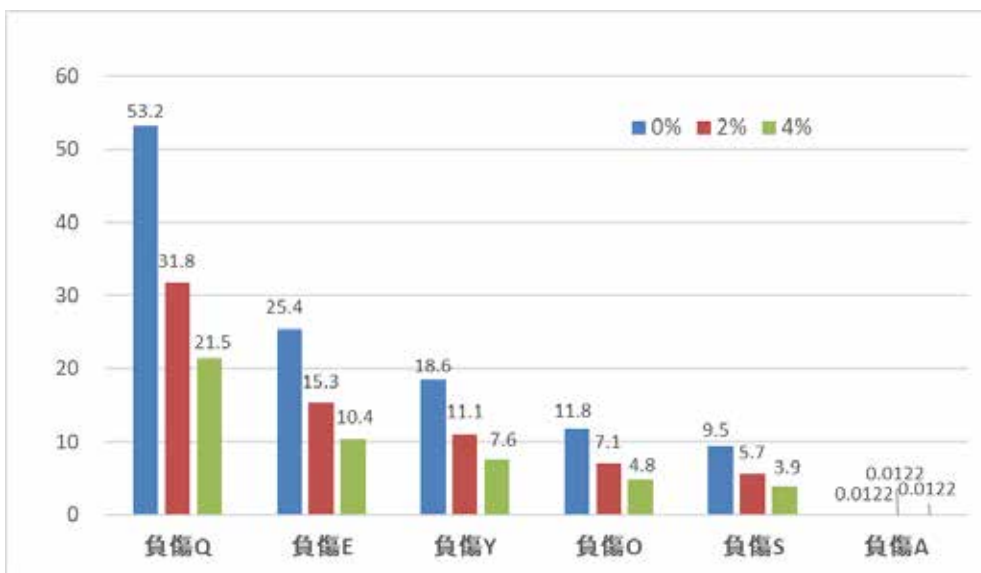


図s 6-1 各負傷状態の割引率別損失 QALE の比率の比較(ケース 1)

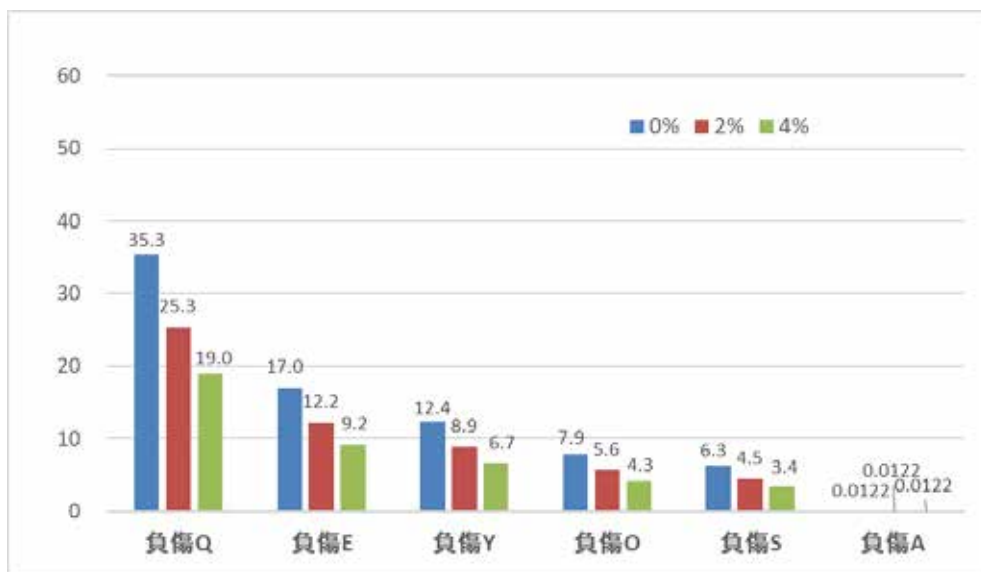


図s 6-2 各負傷状態の割引率別損失 QALE の比率の比較(ケース 2)

一方、損失 QALE について、40～49 歳(45 歳)男性を例として図s 6-3 と図s 6-4 に示した。全体的な傾向として同じ負傷状態であればケース 1 の方が高くなり、両ケースとも割引率の変化に対する QALE の差分が大きく変化していることがわかる。



図s 6-3 各負傷状態の割引率別損失 QALE の比較(ケース 1)
(40～49 歳(45 歳)男性の例)



図s 6-4 各負傷状態の割引率別 QALE の差分の比較(ケース 2)
(40～49 歳(45 歳)男性の例)

表s 6-6 性別年齢階層別にみた交通事故による損失 QALE とその比率
(ケース1:割引率0%)

年齢階層	負傷	ケース1 (割引率:0%)							
		交通事故に遭わない 場合:QALE ^{WO}		交通事故により負傷 した場合:QALE ^W		交通事故による 損失QALE [-]		交通事故による 損失QALEの比率 [(-)/]	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	93.2375	92.9819	-2.3728	-2.3663	95.6103	95.3482	102.54%	102.54%
	E			47.6428	47.5138	45.5947	45.4681	48.90%	48.90%
	Y			59.9566	59.7931	33.2809	33.1888	35.69%	35.69%
	O			71.9776	71.7805	21.2599	21.2013	22.80%	22.80%
	S			76.1506	75.9419	17.0870	17.0400	18.33%	18.33%
	A			93.2250	92.9694	0.0126	0.0124	0.013%	0.013%
5~9歳	Q	88.3480	88.1473	-2.2484	-2.2433	90.5964	90.3905	102.54%	102.54%
	E			45.1343	45.0335	43.2137	43.1138	48.91%	48.91%
	Y			56.8072	56.6790	31.5408	31.4683	35.70%	35.70%
	O			68.2012	68.0465	20.1468	20.1007	22.80%	22.80%
	S			72.1563	71.9925	16.1916	16.1547	18.33%	18.33%
	A			88.3354	88.1348	0.0126	0.0124	0.014%	0.014%
10~14歳	Q	83.4583	83.3125	-2.1239	-2.1202	85.5822	85.4328	102.54%	102.54%
	E			42.6258	42.5532	40.8325	40.7594	48.93%	48.92%
	Y			53.6576	53.5648	29.8007	29.7477	35.71%	35.71%
	O			64.4246	64.3125	19.0336	19.0001	22.81%	22.81%
	S			68.1620	68.0431	15.2963	15.2694	18.33%	18.33%
	A			83.4457	83.3001	0.0126	0.0124	0.015%	0.015%
15~19歳	Q	78.5690	78.4780	-1.9995	-1.9972	80.5685	80.4752	102.54%	102.54%
	E			40.1175	40.0730	38.4515	38.4050	48.94%	48.94%
	Y			50.5083	50.4508	28.0607	28.0272	35.71%	35.71%
	O			60.6484	60.5785	17.9206	17.8995	22.81%	22.81%
	S			64.1680	64.0938	14.4010	14.3842	18.33%	18.33%
	A			78.5564	78.4656	0.0126	0.0124	0.016%	0.016%
20代	Q	70.8833	70.8137	-1.8039	-1.8021	72.6872	72.6158	102.54%	102.54%
	E			36.1799	36.1438	34.7034	34.6699	48.96%	48.96%
	Y			45.5606	45.5155	25.3228	25.2982	35.72%	35.73%
	O			54.7134	54.6595	16.1699	16.1542	22.81%	22.81%
	S			57.8900	57.8331	12.9933	12.9806	18.33%	18.33%
	A			70.8711	70.8014	0.0122	0.0122	0.017%	0.017%
30代	Q	61.3685	61.3313	-1.5618	-1.5608	62.9303	62.8921	102.54%	102.54%
	E			31.2983	31.2809	30.0702	30.0504	49.00%	49.00%
	Y			39.4317	39.4086	21.9368	21.9227	35.75%	35.74%
	O			47.3646	47.3362	14.0039	13.9951	22.82%	22.82%
	S			50.1174	50.0872	11.2511	11.2441	18.33%	18.33%
	A			61.3563	61.3192	0.0122	0.0121	0.020%	0.020%
40代	Q	51.8774	51.8918	-1.3202	-1.3206	53.1977	53.2124	102.54%	102.54%
	E			26.4305	26.4381	25.4470	25.4537	49.05%	49.05%
	Y			33.3189	33.3283	18.5585	18.5635	35.77%	35.77%
	O			40.0345	40.0456	11.8430	11.8462	22.83%	22.83%
	S			42.3644	42.3761	9.5131	9.5157	18.34%	18.34%
	A			51.8653	51.8796	0.0122	0.0121	0.023%	0.023%
50代	Q	42.5099	42.5548	-1.0818	-1.0830	43.5917	43.6378	102.54%	102.54%
	E			21.6282	21.6521	20.8816	20.9027	49.12%	49.12%
	Y			27.2869	27.3163	15.2229	15.2385	35.81%	35.81%
	O			32.8001	32.8349	9.7098	9.7198	22.84%	22.84%
	S			34.7124	34.7491	7.7975	7.8057	18.34%	18.34%
	A			42.4980	42.5429	0.0119	0.0119	0.028%	0.028%
60代	Q	33.2628	33.3210	-0.8465	-0.8480	34.1093	34.1690	102.54%	102.54%
	E			16.8856	16.9150	16.3772	16.4060	49.24%	49.24%
	Y			21.3314	21.3686	11.9314	11.9524	35.87%	35.87%
	O			25.6584	25.7033	7.6044	7.6177	22.86%	22.86%
	S			27.1586	27.2062	6.1042	6.1149	18.35%	18.35%
	A			33.2509	33.3092	0.0118	0.0119	0.036%	0.036%
70代以上	Q	20.0170	20.0505	-0.5094	-0.5103	20.5264	20.5608	102.54%	102.54%
	E			10.1166	10.1391	9.9004	9.9114	49.46%	49.43%
	Y			12.8133	12.8377	7.2037	7.2128	35.99%	35.97%
	O			15.4328	15.4596	4.5842	4.5909	22.90%	22.90%
	S			16.3402	16.3680	3.6767	3.6825	18.37%	18.37%
	A			20.0069	20.0408	0.0101	0.0097	0.050%	0.049%

表s 6-7 性別年齢階層別にみた交通事故による損失 QALE とその比率
(ケース2:割引率0%)

年齢階層	負傷	ケース2(割引率:0%)							
		①交通事故に遭わない 場合:QALE ^{wo}		②交通事故により負傷 した場合:QALE ^w		交通事故による 損失QALE 【①-②】		交通事故による 損失QALEの比率 【(①-②)/①】	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	75.0343	79.2051	-1.9095	-2.0157	76.9439	81.2208	102.54%	102.54%
	E			38.3041	40.4460	36.7302	38.7591	48.95%	48.94%
	Y			48.2315	50.9191	26.8028	28.2860	35.72%	35.71%
	O			57.9184	61.1401	17.1159	18.0650	22.81%	22.81%
	S			61.2805	64.6878	13.7538	14.5173	18.33%	18.33%
	A			75.0218	79.1927	0.0126	0.0124	0.017%	0.016%
5~9歳	Q	70.1772	74.3933	-1.7859	-1.8932	71.9631	76.2866	102.54%	102.54%
	E			35.8123	37.9774	34.3649	36.4159	48.97%	48.95%
	Y			45.1029	47.8198	25.0743	26.5736	35.73%	35.72%
	O			54.1670	57.4238	16.0101	16.9696	22.81%	22.81%
	S			57.3128	60.7571	12.8644	13.6363	18.33%	18.33%
	A			70.1646	74.3809	0.0126	0.0124	0.018%	0.017%
10~14歳	Q	65.3036	69.5738	-1.6619	-1.7706	66.9655	71.3444	102.54%	102.54%
	E			33.3121	35.5049	31.9915	34.0689	48.99%	48.97%
	Y			41.9637	44.7154	23.3399	24.8584	35.74%	35.73%
	O			50.4030	53.7014	14.9006	15.8724	22.82%	22.81%
	S			53.3316	56.8201	11.9720	12.7538	18.33%	18.33%
	A			65.2910	69.5614	0.0126	0.0124	0.019%	0.018%
15~19歳	Q	60.4546	64.7698	-1.5385	-1.6483	61.9932	66.4181	102.54%	102.54%
	E			30.8244	33.0403	29.6302	31.7294	49.01%	48.99%
	Y			38.8404	41.6210	21.6142	23.1488	35.75%	35.74%
	O			46.6579	49.9911	13.7967	14.7787	22.82%	22.82%
	S			49.3705	52.8957	11.0841	11.8741	18.33%	18.33%
	A			60.4421	64.7573	0.0126	0.0124	0.021%	0.019%
20代	Q	52.9381	57.1967	-1.3472	-1.4556	54.2853	58.6523	102.54%	102.54%
	E			26.9735	29.1579	25.9645	28.0388	49.05%	49.02%
	Y			34.0015	36.7444	18.9365	20.4522	35.77%	35.76%
	O			40.8534	44.1425	12.0846	13.0542	22.83%	22.82%
	S			43.2307	46.7095	9.7073	10.4872	18.34%	18.34%
	A			52.9258	57.1844	0.0122	0.0123	0.023%	0.021%
30代	Q	43.6479	47.8355	-1.1108	-1.2174	44.7587	49.0529	102.54%	102.54%
	E			22.2071	24.3572	21.4408	23.4783	49.12%	49.08%
	Y			28.0174	30.7156	15.6306	17.1199	35.81%	35.79%
	O			33.6782	36.9127	9.9697	10.9228	22.84%	22.83%
	S			35.6417	39.0626	8.0063	8.7729	18.34%	18.34%
	A			43.6357	47.8234	0.0123	0.0121	0.028%	0.025%
40代	Q	34.4681	38.5995	-0.8772	-0.9823	35.3453	39.5818	102.54%	102.54%
	E			17.4988	19.6187	16.9693	18.9808	49.23%	49.17%
	Y			22.1050	24.7664	12.3631	13.8331	35.87%	35.84%
	O			26.5884	29.7793	7.8797	8.8202	22.86%	22.85%
	S			28.1429	31.5178	6.3253	7.0817	18.35%	18.35%
	A			34.4559	38.5873	0.0122	0.0121	0.035%	0.031%
50代	Q	25.7185	29.6674	-0.6545	-0.7550	26.3730	30.4224	102.54%	102.54%
	E			13.0132	15.0403	12.7053	14.6272	49.40%	49.30%
	Y			16.4708	19.0151	9.2477	10.6524	35.96%	35.91%
	O			19.8312	22.8814	5.8873	6.7860	22.89%	22.87%
	S			20.9956	24.2216	4.7229	5.4459	18.36%	18.36%
	A			25.7065	29.6555	0.0120	0.0119	0.047%	0.040%
60代	Q	17.6204	21.0421	-0.4484	-0.5355	18.0688	21.5776	102.54%	102.54%
	E			8.8589	10.6149	8.7615	10.4272	49.72%	49.55%
	Y			11.2548	13.4591	6.3656	7.5830	36.13%	36.04%
	O			13.5767	16.2196	4.0436	4.8225	22.95%	22.92%
	S			14.3804	17.1756	3.2400	3.8665	18.39%	18.38%
	A			17.6084	21.0302	0.0120	0.0119	0.068%	0.057%
70代以上	Q	7.6681	9.4815	-0.1951	-0.2413	7.8633	9.7228	102.54%	102.54%
	E			3.7744	4.7138	3.8938	4.7677	50.78%	50.28%
	Y			4.8554	6.0282	2.8127	3.4533	36.68%	36.42%
	O			5.8940	7.2961	1.7742	2.1854	23.14%	23.05%
	S			6.2521	7.7341	1.4161	1.7474	18.47%	18.43%
	A			7.6576	9.4716	0.0106	0.0099	0.138%	0.105%

表s 6-8 性別年齢階層別にみた交通事故による損失 QALE とその比率
(ケース 1: 割引率 4%)

年齢階層	負傷	ケース1 (割引率:4%)							
		交通事故に遭わない 場合: QALE ^{wo}		交通事故により負傷 した場合: QALE ^w		交通事故による 損失QALE [-]		交通事故による 損失QALEの比率 [(-)/]	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	24.3819	24.2128	-0.6205	-0.6162	25.0024	24.8290	102.54%	102.54%
	E			12.3184	12.2338	12.0635	11.9790	49.48%	49.47%
	Y			15.6052	15.4973	8.7768	8.7155	36.00%	36.00%
	O			18.7973	18.6671	5.5846	5.5457	22.90%	22.90%
	S			19.9031	19.7651	4.4788	4.4477	18.37%	18.37%
A	24.3694	24.2004	0.0126	0.0124	0.052%	0.051%			
5~9歳	Q	24.1558	24.0119	-0.6147	-0.6111	24.7706	24.6230	102.54%	102.54%
	E			12.2024	12.1307	11.9534	11.8812	49.48%	49.48%
	Y			15.4595	15.3679	8.6963	8.6440	36.00%	36.00%
	O			18.6227	18.5119	5.5331	5.5000	22.91%	22.91%
	S			19.7184	19.6010	4.4374	4.4109	18.37%	18.37%
A	24.1433	23.9995	0.0126	0.0124	0.052%	0.052%			
10~14歳	Q	23.8805	23.7674	-0.6077	-0.6049	24.4883	24.3723	102.54%	102.54%
	E			12.0612	12.0053	11.8194	11.7621	49.49%	49.49%
	Y			15.2822	15.2104	8.5983	8.5570	36.01%	36.00%
	O			18.4101	18.3231	5.4705	5.4443	22.91%	22.91%
	S			19.4935	19.4013	4.3870	4.3661	18.37%	18.37%
A	23.8680	23.7550	0.0126	0.0124	0.053%	0.052%			
15~19歳	Q	23.5461	23.4701	-0.5992	-0.5973	24.1453	24.0674	102.54%	102.54%
	E			11.8896	11.8528	11.6564	11.6173	49.50%	49.50%
	Y			15.0668	15.0190	8.4793	8.4512	36.01%	36.01%
	O			18.1518	18.0935	5.3943	5.3766	22.91%	22.91%
	S			19.2203	19.1584	4.3258	4.3117	18.37%	18.37%
A	23.5335	23.4577	0.0126	0.0124	0.053%	0.053%			
20代	Q	23.0085	22.9348	-0.5855	-0.5837	23.5940	23.5184	102.54%	102.54%
	E			11.6191	11.5809	11.3894	11.3539	49.50%	49.51%
	Y			14.7233	14.6756	8.2852	8.2592	36.01%	36.01%
	O			17.7375	17.6805	5.2710	5.2543	22.91%	22.91%
	S			18.7815	18.7213	4.2269	4.2135	18.37%	18.37%
A	22.9962	22.9225	0.0122	0.0122	0.053%	0.053%			
30代	Q	22.1787	22.1035	-0.5644	-0.5625	22.7432	22.6660	102.54%	102.54%
	E			11.1931	11.1562	10.9857	10.9473	49.53%	49.53%
	Y			14.1886	14.1411	7.9901	7.9625	36.03%	36.02%
	O			17.0966	17.0388	5.0822	5.0647	22.91%	22.91%
	S			18.1037	18.0424	4.0750	4.0611	18.37%	18.37%
A	22.1665	22.0914	0.0122	0.0121	0.055%	0.055%			
40代	Q	20.9751	20.9325	-0.5338	-0.5327	21.5089	21.4652	102.54%	102.54%
	E			10.5769	10.5553	10.3982	10.3772	49.57%	49.57%
	Y			13.4140	13.3867	7.5611	7.5458	36.05%	36.05%
	O			16.1672	16.1343	4.8079	4.7982	22.92%	22.92%
	S			17.1206	17.0858	3.8545	3.8467	18.38%	18.38%
A	20.9630	20.9204	0.0122	0.0121	0.058%	0.058%			
50代	Q	19.3411	19.3141	-0.4922	-0.4915	19.8333	19.8056	102.54%	102.54%
	E			9.7422	9.7291	9.5989	9.5850	49.63%	49.63%
	Y			12.3634	12.3464	6.9777	6.9677	36.08%	36.08%
	O			14.9058	14.8851	4.4353	4.4290	22.93%	22.93%
	S			15.7860	15.7640	3.5551	3.5501	18.38%	18.38%
A	19.3291	19.3022	0.0119	0.0119	0.062%	0.061%			
60代	Q	17.0805	17.0605	-0.4347	-0.4342	17.5151	17.4946	102.54%	102.54%
	E			8.5837	8.5730	8.4967	8.4875	49.75%	49.75%
	Y			10.9080	10.8948	6.1725	6.1657	36.14%	36.14%
	O			13.1601	13.1445	3.9204	3.9159	22.95%	22.95%
	S			13.9394	13.9231	3.1410	3.1374	18.39%	18.39%
A	17.0686	17.0486	0.0118	0.0119	0.069%	0.070%			
70代以上	Q	12.2882	12.2181	-0.3127	-0.3109	12.6009	12.5290	102.54%	102.54%
	E			6.1515	6.1209	6.1366	6.0972	49.94%	49.90%
	Y			7.8350	7.7926	4.4532	4.4255	36.24%	36.22%
	O			9.4635	9.4103	2.8247	2.8078	22.99%	22.98%
	S			10.0266	9.9698	2.2615	2.2483	18.40%	18.40%
A	12.2781	12.2083	0.0101	0.0097	0.082%	0.080%			

表s 6-9 性別年齢階層別にみた交通事故による損失 QALE とその比率
(ケース 2: 割引率 4%)

年齢階層	負傷	ケース2(割引率:4%)							
		交通事故に遭わない 場合: QALE ^{wo}		交通事故により負傷 した場合: QALE ^w		交通事故による 損失QALE 【 - 】		交通事故による 損失QALEの比率 【(-)/ 】	
		男性	女性	男性	女性	男性	女性	男性	女性
0~4歳	Q	23.9046	23.9065	-0.6083	-0.6084	24.5129	24.5149	102.54%	102.54%
	E			12.0735	12.0766	11.8311	11.8299	49.49%	49.48%
	Y			15.2977	15.3000	8.6069	8.6065	36.01%	36.00%
	O			18.4287	18.4305	5.4759	5.4760	22.91%	22.91%
	S			19.5132	19.5149	4.3914	4.3916	18.37%	18.37%
	A			23.8920	23.8941	0.0126	0.0124	0.053%	0.052%
5~9歳	Q	23.5763	23.6398	-0.6000	-0.6016	24.1763	24.2414	102.54%	102.54%
	E			11.9051	11.9398	11.6712	11.7000	49.50%	49.49%
	Y			15.0862	15.1283	8.4901	8.5116	36.01%	36.01%
	O			18.1751	18.2245	5.4012	5.4153	22.91%	22.91%
	S			19.2450	19.2970	4.3313	4.3428	18.37%	18.37%
	A			23.5638	23.6274	0.0126	0.0124	0.053%	0.053%
10~14歳	Q	23.1763	23.3152	-0.5898	-0.5933	23.7661	23.9085	102.54%	102.54%
	E			11.6999	11.7733	11.4764	11.5419	49.52%	49.50%
	Y			14.8285	14.9191	8.3477	8.3960	36.02%	36.01%
	O			17.8661	17.9738	5.3101	5.3414	22.91%	22.91%
	S			18.9182	19.0319	4.2581	4.2833	18.37%	18.37%
	A			23.1637	23.3028	0.0126	0.0124	0.054%	0.053%
15~19歳	Q	22.6918	22.9214	-0.5775	-0.5833	23.2693	23.5047	102.54%	102.54%
	E			11.4513	11.5712	11.2405	11.3502	49.54%	49.52%
	Y			14.5165	14.6655	8.1753	8.2559	36.03%	36.02%
	O			17.4919	17.6697	5.1998	5.2517	22.92%	22.91%
	S			18.5224	18.7102	4.1693	4.2112	18.37%	18.37%
	A			22.6792	22.9090	0.0126	0.0124	0.055%	0.054%
20代	Q	21.8544	22.1897	-0.5562	-0.5647	22.4105	22.7544	102.54%	102.54%
	E			11.0269	11.1986	10.8274	10.9911	49.54%	49.53%
	Y			13.9798	14.1956	7.8745	7.9941	36.03%	36.03%
	O			16.8461	17.1051	5.0083	5.0847	22.92%	22.91%
	S			17.8388	18.1127	4.0156	4.0770	18.37%	18.37%
	A			21.8421	22.1775	0.0122	0.0123	0.056%	0.055%
30代	Q	20.5004	21.0129	-0.5217	-0.5348	21.0221	21.5477	102.54%	102.54%
	E			10.3319	10.5966	10.1685	10.4163	49.60%	49.57%
	Y			13.1075	13.4386	7.3929	7.5744	36.06%	36.05%
	O			15.8003	16.1965	4.7001	4.8165	22.93%	22.92%
	S			16.7327	17.1515	3.7677	3.8614	18.38%	18.38%
	A			20.4881	21.0008	0.0123	0.0121	0.060%	0.058%
40代	Q	18.5549	19.3502	-0.4722	-0.4924	19.0271	19.8427	102.54%	102.54%
	E			9.3350	9.7434	9.2199	9.6068	49.69%	49.65%
	Y			11.8550	12.3675	6.9999	6.9828	36.11%	36.09%
	O			14.2979	14.9122	4.2570	4.4380	22.94%	22.93%
	S			15.1435	15.7932	3.4114	3.5570	18.39%	18.38%
	A			18.5428	19.3381	0.0122	0.0121	0.066%	0.063%
50代	Q	15.9480	17.0702	-0.4059	-0.4344	16.3539	17.5046	102.54%	102.54%
	E			8.0007	8.5776	7.9473	8.4926	49.83%	49.75%
	Y			10.1774	10.9009	5.7706	6.1693	36.18%	36.14%
	O			12.2850	13.1520	3.6630	3.9182	22.97%	22.95%
	S			13.0142	13.9310	2.9338	3.1392	18.40%	18.39%
	A			15.9360	17.0583	0.0120	0.0119	0.075%	0.070%
60代	Q	12.5684	13.9545	-0.3199	-0.3551	12.8882	14.3096	102.54%	102.54%
	E			6.2671	6.9788	6.3013	6.9757	50.14%	49.99%
	Y			8.0007	8.8938	4.5677	5.0607	36.34%	36.27%
	O			9.6749	10.7455	2.8935	3.2090	23.02%	23.00%
	S			10.2534	11.3858	2.3149	2.5687	18.42%	18.41%
	A			12.5564	13.9426	0.0120	0.0119	0.095%	0.085%
70代以上	Q	6.5447	7.6755	-0.1666	-0.1953	6.7113	7.8708	102.54%	102.54%
	E			3.1980	3.7873	3.3467	3.8882	51.14%	50.66%
	Y			4.1318	4.8649	2.4129	2.8105	36.87%	36.62%
	O			5.0263	5.9012	1.5184	1.7742	23.20%	23.12%
	S			5.3343	6.2587	1.2104	1.4167	18.49%	18.46%
	A			6.5341	7.6655	0.0106	0.0099	0.161%	0.130%