Appendix

Table A-1: **Age distribution of deaths in the observed year, in the ideal mortality window (IDE), and in the age-adjusted scenario (IDEadj) for Belgrade, 2015 and 2023**

Age groups	OBS		IDE		IDEadj	
			Belgrade - male 2015			
Total	10473	100.00	9636	100.00	9636	100.00
0	48	0.46	32	0.33	44	0.46
1–4	9	0.09	12	0.12	8	0.09
5–9	7	0.07	4	0.04	6	0.07
10–14	3	0.03	4	0.04	3	0.03
15–19	17	0.16	12	0.12	16	0.16
20–24	32	0.31	32	0.33	29	0.31
25–29	37	0.35	36	0.37	34	0.35
30–34	61	0.58	40	0.42	56	0.58
35–39	111	1.06	116	1.20	102	1.06
40–44	123	1.17	120	1.25	113	1.17
45–49	195	1.86	180	1.87	179	1.86
50–54	378	3.61	356	3.69	348	3.61
55–59	595	5.68	628	6.52	547	5.68
60–64	1176	11.23	1156	12.00	1082	11.23
65–69	1248	11.92	1224	12.70	1148	11.92
70–74	1133	10.82	1028	10.67	1042	10.82
75–79	1692	16.16	1512	15.69	1557	16.16
80–84	1811	17.29	1568	16.27	1666	17.29
85+	1797	17.16	1576	16.36	1653	17.16
			Belgrade - male 2023			
	10545	100.00	9468	100.00	9468	100.00
0	33	0.31	24	0.25	30	0.31
1–4	10	0.09	8	0.08	9	0.09
5–9	6	0.06	8	0.08	5	0.06
10–14	8	0.08	12	0.13	7	0.08
15–19	19	0.18	36	0.38	17	0.18
20–24	32	0.30	28	0.30	29	0.30
25–29	38	0.36	36	0.38	34	0.36
30–34	42	0.40	40	0.42	38	0.40
35–39	93	0.88	84	0.89	84	0.88
40–44	147	1.39	148	1.56	132	1.39
45–49	219	2.08	228	2.41	197	2.08
50–54	350	3.32	312	3.30	314	3.32
55–59	485	4.60	448	4.73	435	4.60
60–64	825	7.82	732	7.73	741	7.82
65–69	1357	12.87	1248	13.18	1218	12.87
70–74	1728	16.39	1504	15.89	1552	16.39
75–79	1439	13.65	1380	14.58	1292	13.65
80–84	1561	14.80	1396	14.74	1402	14.80
85+	2153	20.42	1796	18.97	1933	20.42

Age groups	OBS		IDE		IDEadj	
		Belgrade - female 2015				
	10723	100.00	9636	100.00	9636	100.00
0	34	0.32	32	0.33	31	0.32
1–4	5	0.05	4	0.04	4	0.05
5–9	6	0.06	8	0.08	5	0.06
10–14	1	0.01	0	0.00	1	0.01
15–19	4	0.04	0	0.00	4	0.04
20–24	9	0.08	12	0.12	8	0.08
25–29	17	0.16	12	0.12	15	0.16
30–34	34	0.32	40	0.42	31	0.32
35–39	57	0.53	52	0.54	51	0.53
40–44	80	0.75	68	0.71	72	0.75
45–49	134	1.25	144	1.49	120	1.25
50–54	217	2.02	176	1.83	195	2.02
55–59	390	3.64	340	3.53	350	3.64
60–64	718	6.70	652	6.77	645	6.70
65–69	856	7.98	796	8.26	769	7.98
70–74	970	9.05	852	8.84	872	9.05
75–79	1714	15.98	1484	15.40	1540	15.98
80–84	2443	22.78	2216	23.00	2195	22.78
85+	3034	28.29	2888	29.97	2726	28.29
		Belgrade - female 2023				
	10954	100.00	9984	100.00	9984	100.00
0	33	0.30	28	0.28	30	0.30
1–4	2	0.02	0	0.00	2	0.02
5–9	6	0.05	12	0.12	5	0.05
10–14	17	0.16	12	0.12	15	0.16
15–19	6	0.05	0	0.00	5	0.05
20–24	13	0.12	16	0.16	12	0.12
25–29	10	0.09	0	0.00	9	0.09
30–34	21	0.19	24	0.24	19	0.19
35–39	49	0.45	28	0.28	45	0.45
40–44	79	0.72	52	0.52	72	0.72
45–49	130	1.19	112	1.12	118	1.19
50–54	189	1.73	140	1.40	172	1.73
55–59	315	2.88	296	2.96	287	2.88
60–64	521	4.76	480	4.81	475	4.76
65–69	958	8.75	860	8.61	873	8.75
70–74	1512	13.80	1404	14.06	1378	13.80
75–79	1495	13.65	1472	14.74	1363	13.65
80–84	2017	18.41	1832	18.35	1838	18.41
85+	3581	32.69	3216	32.21	3264	32.69

The table compares the proportion of deaths by age group in the observed year, in the ideal mortality (IDE), and in the age-adjusted ideal mortality (IDEadj) windows. In both 2015 and 2023, the IDE scenario shows a slightly lower share of deaths at ages 85+ compared to the annual distribution, while some middle-aged groups become relatively overrepresented. The IDEadj scenario restores the age distribution to match the annual profile, correcting for compositional bias introduced by the original IDE selection.