

Adjusted logistic regression analyses of the association between the outcome “ Visits to the hospital for outpatient health care in the last 12 months” and area of residence among individuals with OA

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
(Intercept)	0.793	0.450	-0.516	0.606	0.328	1.915
RESIDENCE AREA						
Rural						
Urban	1.062	0.110	0.547	0.584	0.855	1.319
SEX						
Male						
Female	0.686	0.139	-2.719	0.007	0.523	0.900
AGE						
18-45						
45-54	2.950	0.341	3.170	0.002	1.511	5.759
55-64	3.072	0.328	3.419	0.001	1.614	5.847
65-74	2.622	0.357	2.699	0.007	1.302	5.282
75-84	3.048	0.372	2.993	0.003	1.469	6.326
85+	4.724	0.420	3.696	0.000	2.073	10.765
EDUCATION						
Less than Basic						
Primary and Lower Secondary Education	0.937	0.160	-0.406	0.684	0.685	1.282
Upper Secondary Education or Equivalent	1.263	0.282	0.829	0.407	0.727	2.195
University or Post-Graduated	2.225	0.336	2.382	0.017	1.152	4.296
INCOME						
1st Quintile						
2nd Quintile	0.950	0.178	-0.286	0.775	0.670	1.348
3rd Quintile	1.028	0.200	0.136	0.892	0.695	1.520
4th Quintile	0.965	0.229	-0.154	0.878	0.616	1.513
5th Quintile	0.964	0.279	-0.132	0.895	0.558	1.665
HEALTH STATUS						
Good or Very Good						
Acceptable	0.852	0.187	-0.855	0.393	0.591	1.230
Poor or Very Poor	0.495	0.198	-3.550	0.000	0.335	0.730
MARITAL STATUS						
Single						
Married	1.049	0.218	0.220	0.826	0.684	1.609
Widow(er)	1.019	0.251	0.075	0.940	0.623	1.668
Divorced	0.804	0.272	-0.802	0.423	0.472	1.371
INSURANCE						
Yes						
No	1.050	0.173	0.280	0.779	0.748	1.474
PROFESSIONAL STATUS						
Employed						
Unemployed	1.222	0.268	0.750	0.453	0.723	2.066
Retired, unable to work or another inactivity situation	1.386	0.187	1.748	0.081	0.961	1.999
Student or on internship	0.665	1.000	-0.408	0.683	0.094	4.722
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.477	0.239	1.633	0.103	0.925	2.360
Couple with children	1.034	0.158	0.211	0.833	0.759	1.408
Other type	1.061	0.226	0.260	0.795	0.680	1.653

Adjusted logistic regression analyses of the association between the outcome “Consultation with a physiotherapist, kinesiotherapist, chiropractor or osteopath in the last 12 months” and area of residence among individuals with OA

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
(Intercept)	9.219	0.516	4.304	0.000	3.352	25.355
RESIDENCE AREA						
Urban						
Rural	0.680	0.138	-2.788	0.005	0.518	0.892
SEX						
Male						
Female	0.720	0.156	-2.109	0.035	0.531	0.977
AGE						
18-44						
45-54	0.924	0.372	-0.212	0.832	0.445	1.917
55-64	1.109	0.369	0.280	0.779	0.538	2.287
65-74	0.701	0.405	-0.878	0.380	0.317	1.550
75-84	1.300	0.431	0.609	0.542	0.558	3.028
85+	1.700	0.513	1.035	0.301	0.622	4.645
EDUCATION						
Less than Basic						
Primary and Lower Secondary Education	0.894	0.226	-0.498	0.619	0.574	1.391
Upper Secondary Education or Equivalent	0.605	0.333	-1.510	0.131	0.315	1.162
University or Post-Graduated	0.873	0.382	-0.357	0.721	0.413	1.844
INCOME						
1st Quintile						
2nd Quintile	1.493	0.214	1.869	0.062	0.981	2.273
3rd Quintile	1.378	0.230	1.393	0.164	0.877	2.164
4th Quintile	1.392	0.248	1.333	0.182	0.856	2.263
5th Quintile	0.609	0.310	-1.598	0.110	0.331	1.119
HEALTH STATUS						
Good or Very Good						
Acceptable	0.617	0.228	-2.120	0.034	0.395	0.964
Poor or Very Poor	0.488	0.250	-2.873	0.004	0.299	0.796
MARITAL STATUS						
Single						
Married	0.529	0.282	-2.260	0.024	0.304	0.919
Widow(er)	0.668	0.316	-1.275	0.202	0.359	1.242
Divorced	0.429	0.330	-2.570	0.010	0.225	0.818
INSURANCE						
Yes						
No	2.332	0.179	4.740	0.000	1.643	3.310
PROFESSIONAL STATUS						
Employed						
Unemployed	0.595	0.288	-1.803	0.072	0.338	1.047
Retired, unable to work or another inactivity situation	1.059	0.217	0.264	0.792	0.692	1.620
Student or on internship	4.099	1.187	1.188	0.235	0.400	42.044
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.064	0.307	0.203	0.839	0.583	1.944
Couple with children	0.689	0.171	-2.188	0.029	0.493	0.962
Other type	1.352	0.294	1.026	0.305	0.760	2.404

Adjusted logistic regression analyses of the association between the outcome “Non-reasonable waiting for a medical appointment, examination or treatment in the last 12 months” and area of residence among individuals with OA

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
(Intercept)	0.793	0.450	-0.516	0.606	0.328	1.915
RESIDENCE AREA						
Urban						
Rural	1.062	0.110	0.547	0.584	0.855	1.319
SEX						
Male						
Female	0.686	0.139	-2.719	0.007	0.523	0.900
AGE						
18-44						
45-54	2.950	0.341	3.170	0.002	1.511	5.759
55-64	3.072	0.328	3.419	0.001	1.614	5.847
65-74	2.622	0.357	2.699	0.007	1.302	5.282
75-84	3.048	0.372	2.993	0.003	1.469	6.326
85+	4.724	0.420	3.696	0.000	2.073	10.765
EDUCATION						
Less than Basic						
Primary and Lower Secondary Education	0.937	0.160	-0.406	0.684	0.685	1.282
Upper Secondary Education or Equivalent	1.263	0.282	0.829	0.407	0.727	2.195
University or Post-Graduated	2.225	0.336	2.382	0.017	1.152	4.296
INCOME						
1 st Quintile						
2nd Quintile	0.950	0.178	-0.286	0.775	0.670	1.348
3rd Quintile	1.028	0.200	0.136	0.892	0.695	1.520
4th Quintile	0.965	0.229	-0.154	0.878	0.616	1.513
5th Quintile	0.964	0.279	-0.132	0.895	0.558	1.665
HEALTH STATUS						
Good or Very Good						
Acceptable	0.852	0.187	-0.855	0.393	0.591	1.230
Poor or Very Poor	0.495	0.198	-3.550	0.000	0.335	0.730
MARITAL STATUS						
Single						
Married	1.049	0.218	0.220	0.826	0.684	1.609
Widow(er)	1.019	0.251	0.075	0.940	0.623	1.668
Divorced	0.804	0.272	-0.802	0.423	0.472	1.371
INSURANCE						
Yes						
No	1.050	0.173	0.280	0.779	0.748	1.474
PROFESSIONAL STATUS						
Employed						
Unemployed	1.222	0.268	0.750	0.453	0.723	2.066
Retired, unable to work or another inactivity situation	1.386	0.187	1.748	0.081	0.961	1.999
Student or on internship	0.665	1.000	-0.408	0.683	0.094	4.722
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.477	0.239	1.633	0.103	0.925	2.360
Couple with children	1.034	0.158	0.211	0.833	0.759	1.408
Other type	1.061	0.226	0.260	0.795	0.680	1.653

Adjusted logistic regression analyses of the association between the outcome “ Waiting for a medical appointment, exam or treatment due to distance or transportation in the last 12 months” and area of residence among individuals with OA

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
(Intercept)	14.659	0.783	3.431	0.001	3.160	67.999
RESIDENCE AREA						
Urban						
Rural	1.775	0.201	2.855	0.004	1.197	2.633
SEX						
Male						
Female	0.906	0.218	-0.453	0.650	0.591	1.388
AGE						
18-44						
45-54	5.012	0.829	1.943	0.052	0.986	25.482
55-64	4.933	0.814	1.960	0.050	1.000	24.341
65-74	4.766	0.852	1.833	0.067	0.897	25.314
75-84	5.735	0.885	1.973	0.049	1.011	32.534
85+	7.761	0.912	2.248	0.025	1.299	46.353
EDUCATION						
Less than Basic						
Primary and Lower Secondary Education	1.168	0.268	0.579	0.563	0.691	1.974
Upper Secondary Education or Equivalent	3.646	0.694	1.863	0.063	0.935	14.221
University or Post-Graduated	3.303	0.877	1.363	0.173	0.592	18.419
INCOME						
1 st Quintile						
2nd Quintile	1.647	0.384	1.298	0.194	0.775	3.497
3rd Quintile	1.445	0.329	1.118	0.264	0.758	2.755
4th Quintile	1.336	0.389	0.745	0.456	0.624	2.863
5th Quintile	3.072	0.641	1.750	0.080	0.874	10.799
HEALTH STATUS						
Good or Very Good						
Acceptable	0.273	0.504	-2.577	0.010	0.102	0.733
Poor or Very Poor	0.195	0.500	-3.265	0.001	0.073	0.521
MARITAL STATUS						
Single						
Married	1.890	0.418	1.523	0.128	0.833	4.292
Widow(er)	1.305	0.441	0.603	0.546	0.550	3.098
Divorced	1.031	0.515	0.059	0.953	0.375	2.832
INSURANCE						
Yes						
No	0.329	0.399	-2.789	0.005	0.151	0.719
PROFESSIONAL STATUS						
Employed						
Unemployed	1.779	0.672	0.858	0.391	0.477	6.638
Retired, unable to work or another inactivity situation	0.527	0.328	-1.952	0.051	0.277	1.003
Student or on internship	224,604.804	0.603	20.436	0.000	68,867.075	732,531.738
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.440	0.415	0.878	0.380	0.638	3.250
Couple with children	0.776	0.302	-0.838	0.402	0.429	1.404
Other type	3.090	0.481	2.347	0.019	1.204	7.930

Adjusted logistic regression analyses of the association between the outcome “ Need for medical consultation or treatment not satisfied due to financial difficulties in the last 12 months” and area of residence among individuals with OA

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
(Intercept)	0.597	0.529	-0.976	0.329	0.212	1.683
RESIDENCE AREA						
Urban						
Rural	1.142	0.147	0.905	0.366	0.856	1.524
SEX						
Male						
Female	0.969	0.171	-0.181	0.856	0.693	1.356
AGE						
18-44						
45-54	0.983	0.382	-0.044	0.965	0.465	2.078
55-64	0.848	0.364	-0.454	0.650	0.416	1.730
65-74	0.839	0.416	-0.423	0.672	0.371	1.895
75-84	0.787	0.437	-0.548	0.584	0.334	1.854
85+	1.154	0.517	0.277	0.782	0.419	3.178
EDUCATION						
Less than Basic						
Primary and Lower Secondary Education	1.230	0.213	0.971	0.332	0.810	1.868
Upper Secondary Education or Equivalent	1.459	0.367	1.030	0.303	0.711	2.994
University or Post-Graduated	1.071	0.421	0.162	0.871	0.469	2.443
INCOME						
1 st Quintile						
2nd Quintile	0.942	0.229	-0.262	0.793	0.602	1.474
3rd Quintile	0.738	0.256	-1.184	0.237	0.447	1.220
4th Quintile	0.660	0.280	-1.486	0.137	0.381	1.142
5th Quintile	1.008	0.346	0.022	0.982	0.511	1.987
HEALTH STATUS						
Good or Very Good						
Acceptable	0.628	0.206	-2.263	0.024	0.420	0.940
Poor or Very Poor	0.454	0.245	-3.213	0.001	0.281	0.735
MARITAL STATUS						
Single						
Married	0.790	0.263	-0.899	0.369	0.472	1.322
Widow(er)	0.732	0.296	-1.056	0.291	0.409	1.307
Divorced	1.040	0.342	0.115	0.909	0.531	2.035
INSURANCE						
Yes						
No	0.739	0.207	-1.461	0.144	0.492	1.109
PROFESSIONAL STATUS						
Employed						
Unemployed	0.948	0.353	-0.151	0.880	0.474	1.895
Retired, unable to work or another inactivity situation	0.919	0.229	-0.368	0.713	0.587	1.440
Student or on internship	0.359	1.139	-0.900	0.368	0.038	3.348
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	0.907	0.293	-0.334	0.738	0.511	1.610
Couple with children	1.135	0.195	0.647	0.517	0.774	1.664
Other type	1.555	0.275	1.608	0.108	0.908	2.664

Adjusted logistic regression analyses of the association between “Consultation with a physiotherapist, kinesiotherapist, chiropractor or osteopath in the last 12 months” and area of residence among individuals with OA, stratified by age group.

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
≤ 64 YEARS						
(Intercept)	3.033	0.385	2.882	0.004	1.425	6.454
RESIDENCE AREA						
Urban						
Rural	0.599	0.216	-2.368	0.018	0.392	0.916
SEX						
Male						
Female	0.733	0.243	-1.277	0.202	0.455	1.181
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	0.848	0.306	-0.537	0.591	0.465	1.547
INCOME						
1 st Quintile						
2nd Quintile	1.567	0.319	1.406	0.160	0.837	2.931
3rd Quintile	1.312	0.297	0.913	0.361	0.732	2.351
4th Quintile	1.385	0.335	0.971	0.332	0.717	2.674
5th Quintile	0.576	0.407	-1.353	0.176	0.259	1.281
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	0.588	0.232	-2.289	0.022	0.373	0.927
MARITAL STATUS						
Married						
Single, Widow or Divorced	1.439	0.247	1.475	0.140	0.887	2.335
INSURANCE						
Yes						
No	2.439	0.234	3.803	0.000	1.540	3.862
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.065	0.394	0.160	0.873	0.491	2.309
Couple with children	0.743	0.213	-1.399	0.162	0.490	1.127
Other type	1.432	0.460	0.781	0.435	0.581	3.534
BETWEEN 65 AND 79 YEARS						
(Intercept)	1.809	0.462	1.283	0.200	0.731	4.476
RESIDENCE AREA						
Urban						
Rural	0.721	0.200	-1.635	0.102	0.487	1.067
SEX						
Male						
Female	0.878	0.256	-0.510	0.610	0.531	1.450
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	0.728	0.370	-0.858	0.391	0.352	1.504
INCOME						
1 st Quintile						
2nd Quintile	1.135	0.320	0.396	0.692	0.606	2.128
3rd Quintile	1.748	0.388	1.441	0.150	0.817	3.739

Adjusted logistic regression analyses of the association between “Consultation with a physiotherapist, kinesiotherapist, chiropractor or osteopath in the last 12 months” and area of residence among individuals with OA, stratified by age group.

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
4th Quintile	1.539	0.407	1.060	0.290	0.693	3.418
5th Quintile	0.926	0.429	-0.179	0.858	0.399	2.149
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	1.060	0.204	0.284	0.776	0.710	1.582
MARITAL STATUS						
Married						
Single, Widow or Divorced	1.521	0.217	1.931	0.054	0.993	2.329
INSURANCE						
Yes						
No	2.251	0.306	2.653	0.008	1.236	4.101
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	0.749	0.470	-0.614	0.539	0.298	1.883
Couple with children	0.614	0.321	-1.520	0.129	0.328	1.152
Other type	1.089	0.441	0.194	0.846	0.459	2.584
≥80 YEARS						
Intercept	9.798	1.127	2.026	0.043	1.074	89.415
RESIDENCE AREA						
Urban						
Rural	0.770	0.341	-0.767	0.443	0.394	1.504
SEX						
Male						
Female	0.356	0.480	-2.149	0.032	0.139	0.914
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	0.578	0.721	-0.760	0.448	0.140	2.380
INCOME						
1 st Quintile						
2nd Quintile	2.959	0.639	1.699	0.090	0.845	10.363
3rd Quintile	0.652	0.745	-0.575	0.566	0.151	2.813
4th Quintile	1.365	0.786	0.396	0.692	0.292	6.380
5th Quintile	1.545	0.907	0.479	0.632	0.260	9.171
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	0.607	0.397	-1.257	0.209	0.278	1.324
MARITAL STATUS						
Married						
Single, Widow or Divorced	0.799	0.348	-0.644	0.520	0.403	1.583
INSURANCE						
Yes						
No	2.256	0.691	1.177	0.239	0.581	8.755
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	0.970	0.772	-0.040	0.968	0.213	4.409
Couple with children	0.762	0.490	-0.556	0.579	0.291	1.993
Other type	2.370	0.769	1.122	0.262	0.524	10.727

NOTE: In age-stratified models, *Education*, *Health Status*, and *Marital Status* were recategorized to address sparse data. *Professional status* was excluded due to its strong correlation with age, to reduce multicollinearity and avoid overadjustment.

Adjusted logistic regression analyses of the association between the outcome “Waiting for a medical appointment, exam or treatment due to distance or transportation in the last 12 months” and area of residence among individuals with OA, stratified by age group.

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
≤ 64 YEARS						
(Intercept)	50.166	0.709	5.526	0.000	12.497	201.386
RESIDENCE AREA						
Urban						
Rural	1.677	0.355	1.455	0.146	0.835	3.367
SEX						
Male						
Female	0.584	0.358	-1.504	0.133	0.289	1.178
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	2.124	0.515	1.463	0.144	0.773	5.835
INCOME						
1 st Quintile						
2nd Quintile	1.323	0.747	0.375	0.708	0.306	5.722
3rd Quintile	1.165	0.414	0.369	0.712	0.517	2.624
4th Quintile	1.594	0.549	0.849	0.396	0.543	4.676
5th Quintile	21.983	0.721	4.289	0.000	5.349	90.346
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	0.680	0.358	-1.080	0.280	0.337	1.371
MARITAL STATUS						
Married						
Single, Widow or Divorced	0.432	0.408	-2.057	0.040	0.194	0.962
INSURANCE						
Yes						
No	0.391	0.418	-2.247	0.025	0.172	0.888
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	1.337	0.594	0.490	0.625	0.417	4.284
Couple with children	0.611	0.447	-1.103	0.270	0.254	1.467
Other type	2.571	0.694	1.360	0.174	0.658	10.037
BETWEEN 65 AND 79 YEARS						
(Intercept)	15.101	0.657	4.132	0.000	4.162	54.789
RESIDENCE AREA						
Urban						
Rural	2.263	0.277	2.945	0.003	1.314	3.899
SEX						
Male						
Female	1.341	0.327	0.898	0.369	0.707	2.544
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	10.100	0.907	2.550	0.011	1.706	59.808
INCOME						
1 st Quintile						
2nd Quintile	1.480	0.409	0.959	0.338	0.664	3.298
3rd Quintile	1.832	0.449	1.349	0.177	0.760	4.417

Adjusted logistic regression analyses of the association between the outcome “Waiting for a medical appointment, exam or treatment due to distance or transportation in the last 12 months” and area of residence among individuals with OA, stratified by age group.

Variable	Odds Ratio	Standard Error	Statistic	P Value	Low IC	High IC
4th Quintile	1.471	0.572	0.674	0.500	0.479	4.517
5th Quintile	2.338	0.825	1.029	0.303	0.464	11.795
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	1.042	0.273	0.150	0.881	0.610	1.781
MARITAL STATUS						
Married						
Single, Widow or Divorced	1.521	0.217	1.931	0.054	0.993	2.329
INSURANCE						
Yes						
No	0.272	0.456	-2.855	0.004	0.111	0.665
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	2.067	0.655	1.108	0.268	0.572	7.470
Couple with children	0.947	0.495	-0.110	0.913	0.359	2.499
Other type	2.067	0.580	1.251	0.211	0.662	6.448
≥ 80 YEARS						
Intercept	16.076	1.206	2.303	0.022	1.507	171.440
RESIDENCE AREA						
Urban						
Rural	1.283	0.408	0.610	0.542	0.576	2.856
SEX						
Male						
Female	1.369	0.570	0.551	0.582	0.447	4.189
EDUCATION						
Less than Lower Secondary Education						
Upper Secondary Education or More	1.248	1.031	0.215	0.830	0.165	9.435
INCOME						
1 st Quintile						
2nd Quintile	5.551	0.605	2.834	0.005	1.694	18.195
3rd Quintile	6.497	0.703	2.662	0.008	1.635	25.821
4th Quintile	3.232	1.053	1.114	0.266	0.409	25.547
5th Quintile	4.734	0.966	1.609	0.108	0.710	31.555
HEALTH STATUS						
Good, Very Good or Acceptable						
Poor or Very Poor	0.118	0.413	-5.170	0.000	0.053	0.266
MARITAL STATUS						
Married						
Single, Widow or Divorced	0.673	0.510	-0.778	0.437	0.247	1.830
INSURANCE						
Yes						
No	0.747	0.821	-0.356	0.722	0.149	3.743
HOUSEHOLD TYPE						
Single person or couple without children						
Single parent	0.332	0.761	-1.447	0.148	0.075	1.482
Couple with children	1.400	0.742	0.454	0.650	0.326	6.006
Other type	44.466	1.262	3.006	0.003	3.731	529.932

NOTE: In age-stratified models, *Education*, *Health Status*, and *Marital Status* were recategorized to address sparse data. *Professional status* was excluded due to its strong correlation with age, to reduce multicollinearity and avoid overadjustment.