

APPENDIX TABLE A3. PREDICTORS OF FIRST-LINE AND SECOND-LINE SGLT2i INITIATION

Parameter	First-line SGLT2i			Add-on SGLT2i		
	OR	95% CI	P	OR	95% CI	P
Demographics						
Age (years)						
18–44	Ref			Ref		
45–64	0.90	0.85–0.96	0.002	1.28	1.24–1.31	<0.001
65–74	0.65	0.58–0.72	<0.001	0.78	0.75–0.81	<0.001
≥75	0.35	0.30–0.42	<0.001	0.44	0.41–0.46	<0.001
Sex						
Male	Ref			Ref		
Female	1.12	1.06–1.17	<0.001	0.95	0.93–0.96	<0.001
Race						
White	Ref			Ref		
Black	0.80	0.74–0.86	<0.001	0.74	0.72–0.76	<0.001
Hispanic	0.92	0.86–0.99	0.02	0.93	0.91–0.96	<0.001
Asian	0.85	0.76–0.96	0.01	0.83	0.79–0.86	<0.001
Other/unknown	0.71	0.62–0.81	<0.001	0.72	0.69–0.76	<0.001
Census region						
Midwest	Ref			Ref		
Northeast	1.21	1.10–1.33	<0.001	0.95	0.92–0.98	0.001
South	1.56	1.47–1.66	<0.001	1.20	1.17–1.22	<0.001
West	0.99	0.91–1.08	0.80	0.93	0.90–0.96	<0.001
Other/unknown	1.58	0.89–2.82	0.12	0.34	0.23–0.52	<0.001
Health insurance						
Commercial insurance	Ref			Ref		
Medicare Advantage	0.31	0.29–0.34	<0.001	0.44	0.43–0.45	<0.001
Diabetes type and complications						
Diabetes type						
Type 2 diabetes	Ref			Ref		
Type 1 diabetes	0.08	0.06–0.11	<0.001	0.22	0.21–0.23	<0.001
Number of diabetes complications						
0	Ref			Ref		
1	0.95	0.89–1.01	0.08	1.36	1.34–1.39	<0.001
2	0.92	0.84–1.01	0.10	1.68	1.63–1.73	<0.001
3	0.79	0.67–0.92	0.00	1.91	1.84–1.99	<0.001
≥4	0.73	0.58–0.92	0.01	2.23	2.11–2.35	<0.001
Severe hyperglycemia	0.92	0.81–1.06	<0.001	0.89	0.86–0.93	<0.001
Severe hypoglycemia	0.49	0.370.64	0.26	0.83	0.77–0.88	<0.001
Prescriber specialty						
Endocrinology	Ref			Ref		
Cardiology	0.68	0.50–0.92	0.01	0.18	0.16–0.20	<0.001
Family medicine	0.64	0.59–0.69	<0.001	0.23	0.22–0.23	<0.001
Internal medicine	0.65	0.60–0.71	<0.001	0.24	0.23–0.25	<0.001
Pediatrics	0.41	0.24–0.72	0.00	0.16	0.13–0.19	<0.001
Other/unknown	0.62	0.57–0.68	<0.001	0.28	0.27–0.29	<0.001
Additional comorbidity burden						
Acute MI	0.77	0.63–0.93	0.01	0.76	0.72–0.81	<0.001
Heart failure	0.85	0.74–0.97	0.01	0.80	0.77–0.83	<0.001
Cerebrovascular disease	0.83	0.73–0.95	0.01	0.73	0.71–0.76	<0.001
Chronic kidney disease	0.73	0.65–0.83	<0.001	0.63	0.60–0.65	<0.001
Cancer	0.89	0.80–1.00	0.05	0.86	0.83–0.90	<0.001
Hypertension	0.99	0.94–1.05	0.77	1.56	1.52–1.59	<0.001
Year of fill date						
2013	Ref			Ref		
2014	12.17	10.97–13.51	<0.001	12.78	12.39–13.19	<0.001
2015	20.28	18.37–22.39	<0.001	15.56	15.09–16.04	<0.001
2016	16.37	14.82–18.08	<0.001	10.00	9.69–10.32	<0.001

Multinomial logistic regression model predicting first-line (vs. no or second-line) SGLT2i initiation and second-line (vs. no or first-line) SGLT2i initiation.

CI, confidence interval; MI, myocardial infarction; OR, odds ratio.