

Appendix 1. List of variables used in the model.

Dependent variables	Description
Costs 6 months after diagnosis	Costs incurred during the period between diagnosis to 6-months after diagnosis
Costs between 6-12 months	Costs incurred during the period between 6-months after diagnosis to 12-months after diagnosis
Costs between 12-18 months	Costs incurred during the period between 12-months after diagnosis to 18-months after diagnosis
Costs between 18-24 months	Costs incurred during the period between 18-months after diagnosis to 24-months after diagnosis
Costs between 24-30 months	Costs incurred during the period between 24-months after diagnosis to 30-months after diagnosis
Costs between 30-36 months	Costs incurred during the period between 30-months after diagnosis to 36-months after diagnosis
Costs between 36-42 months	Costs incurred during the period between 36-months after diagnosis to 42-months after diagnosis
Costs between 42-48 months	Costs incurred during the period between 42-months after diagnosis to 48-months after diagnosis
Costs between 48-54 months	Costs incurred during the period between 48-months after diagnosis to 54-months after diagnosis
Costs between 54-60 months	Costs incurred during the period between 54-months after diagnosis to 60-months after diagnosis
Costs 6 months after diagnosis	Sum of all costs after diagnosis to 5-years after diagnosis
Independent Variables	Description
Sex	Sex (binary)
Race and ethnicity	Race and ethnicity in four categories: caucasian non-hispanic, african american non-hispanic, other non-hispanic, and hispanic
Marital Status	Marital status at diagnosis (binary)
Region	This variables was based on the registries and grouped in four categories: west, northeast, midwest, and south
Urban	Urban or rural
Age	Age in 5 years intervals
Charlson Comorbidity Index	CCI score in 12 months prior to diagnosis
Hypercalcemia	Hypercalcemia claims in 12 months prior to diagnosis
Renal dysfunction	Renal dysfunction in 12 months prior to diagnosis
Anemia	Anemia in 12 months prior to diagnosis
Bone disease	Bone disease in 12 months prior to diagnosis
HHA	Home Health use one year before diagnosis
Hospice	Hospital use one year before diagnosis
SNF	SNF use one year before diagnosis

Hospital bed claims	Hospital bed claims one year before diagnosis
Oxygen	Oxygen and related supplies claims one year before diagnosis
Walking aid	Walking aids claims one year before diagnosis
Wheel chair	Wheelchair claims one year before diagnosis
Costs 6 months before diagnosis	Costs incurred during the period 6 months before diagnosis to diagnosis
Costs 12 months before diagnosis	Costs incurred during the period 12 months before diagnosis to 6 months before diagnosis
HTc_elxh	Hypertension (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
HTuc_elxh	Hypertension uncontrolled (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
Neuro_elxh_a	Other Neurological Disorders (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
aids_elxh_a	AIDS/HIV (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
alc_elxh_a	Alcohol Abuse (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
anm_bld_elxh_a	Blood Loss Anemia (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
anm_def_elxh_a	Anemia Deficiency (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
anxiety_elxh_a	Anxiety (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
arrhy_elxh	Cardiac Arrhythmia (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
camets_elxh_a	Metastatic Cancer (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
catumor_elxh_a	Solid Tumor without Metastasis (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
chf_elxh	Congestive Heart Failure (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
coag_elxh_a	Coagulopathy (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
copd_elxh_a	Chronic Pulmonary Disease (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
dep_elxh_a	Depression (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
dmc_elxh_a	Diabetes without Chronic Complications (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
dmuc_elxh_a	Diabetes with Chronic Complications (Elixhauser Comorbidity Index) in any claim in 12 months prior to

	diagnosis
drug_elxh_a	Drug Abuse (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
elect_elxh_a	Fluid and Electrolyte Disorders (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
hypthy_elxh_a	Hypothyroidism (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
liver_elxh_a	Liver Disease (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
lymp_elxh_a	Lymphoma (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
obesity_elxh_a	Obesity (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
prlys_elxh_a	Paralysis (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
psych_elxh_a	Psychoses (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
pud_elxh_a	Peptic Ulcer Disease (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
pulm_elxh	Pulmonary Circulation Disorder (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
pvd_elxh_a	Peripheral Vascular Disease (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
renal_elxh_a	Renal Failure (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
rheum_elxh_a	Rheumatoid Arthritis (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
vlvlr_elxh_a	Valvular Disease (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
wgt_loss_elxh_a	Weight Loss (Elixhauser Comorbidity Index) in any claim in 12 months prior to diagnosis
Radiation	Any claim of radiation 6-months before diagnosis
Tract PCI	Per Capita Income for Census Tract.
Tract Median Income	Median HH Income for Census Tract.
Tract Density	Census Tract Density
Tract % White	White pop / Total pop
Tract % Black	Black pop / Total pop
Tract % Hispanic	Hispanic pop / Total pop
Tract % Not Speaking English Well 65+	Percentage of HH 65+ not speaking English well or not at all.
Tract % Non HS	Percent persons 25+ with <12 year education.
Tract % HS only	Percent persons 25+ with a high school diploma only.

Tract % Some College	Percent persons 25+ with some college education.
Tract % College	Percent persons 25+ with at least 4 years of college.
Tract % Non HS for Whites	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Whites	Percent persons age 25+ with a high school diploma.
Tract % Some College for Whites	Percent persons age 25+ with some college education.
Tract % College for Whites	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Blacks	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Blacks	Percent persons age 25+ with a high school diploma.
Tract % Some College for Blacks	Percent persons age 25+ with some college education.
Tract % College for Blacks	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Am. Indians	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Am. Indians	Percent persons age 25+ with a high school diploma.
Tract % Some College for Am. Indians	Percent persons age 25+ with some college education.
Tract % College for Am. Indians	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Asians	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Asians	Percent persons age 25+ with a high school diploma.
Tract % HS Only for Asians	Percent persons age 25+ with a high school diploma.
Tract % Some College for Asians	Percent persons age 25+ with some college education.
Tract % College for Asians	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Others	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Others	Percent persons age 25+ with a high school diploma.
Tract % Some College for Others	Percent persons age 25+ with some college education.
Tract % College for Others	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Hispanics	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Hispanics	Percent persons age 25+ with a high school diploma.
Tract % Some College for Hispanics	Percent persons age 25+ with some college education.
Tract % College for Hispanics	Percent persons age 25+ with at least 4 years of college education.
Tract % Non HS for Native Hawaiians	Percent persons age 25+ with < 12 years education.
Tract % HS Only for Native Hawaiians	Percent persons age 25+ with a high school diploma.
Tract % Some College for Native Hawaiians	Percent persons age 25+ with some college education.

Tract % College for Native Hawaiians	Percent persons age 25+ with at least 4 years of college education.
% Below Poverty	Percent of residents living below poverty.
% Below Poverty <65	Percent of residents living below poverty less than 65.
% Below Poverty 65-74	Percent of residents living below poverty age 65-74.
% Below Poverty 75+	Percent of residents living below poverty age 75+.
% Below Poverty for Whites	Percent of residents living below poverty for Whites.
% Below Poverty for Blacks	Percent of residents living below poverty for Blacks.
% Below Poverty for Am. Indians	Percent of residents living below poverty for American Indians.
% Below Poverty for Asians (pov_asi)	Percent of residents living below poverty for Asians.
% Below Poverty for Native Hawaiians (pov_nat)	Percent of residents living below poverty for Native Hawaiians.
% Below Poverty for Others (pov_oth)	Percent of residents living below poverty for Others.
% Below Poverty for Hispanics (pov_hsp)	Percent of residents living below poverty for Hispanics.
% Below Poverty <65 for Whites (pov_whtlt65)	Percent of residents living below poverty less than 65 for Whites.
% Below Poverty 65-74 for Whites (pov_wht6574)	Percent of residents living below poverty age 65-74 for Whites.
% Below Poverty 75+ for Whites (pov_wht75)	Percent of residents living below poverty age 75+ for Whites.
% Below Poverty <65 for Blacks (pov_blklt65)	Percent of residents living below poverty less than 65 for Blacks.
% Below Poverty 65-74 for Blacks (pov_blk6574)	Percent of residents living below poverty age 65-74 for Blacks.
% Below Poverty 75+ for Blacks (pov_blk75)	Percent of residents living below poverty age 75+ for Blacks.
% Below Poverty <65 for Am. Indians (pov_amilt65)	Percent of residents living below poverty less than 65 for American Indians.
% Below Poverty 65-74 for Am. Indians (pov_ami6574)	Percent of residents living below poverty age 65-74 for American Indians.
% Below Poverty 75+ for Am. Indians (pov_ami75)	Percent of residents living below poverty age 75+ for American Indians.
% Below Poverty <65 for Asians (pov_asilt65)	Percent of residents living below poverty less than 65 for Asians.
% Below Poverty 65-74 for Asians (pov_asi6574)	Percent of residents living below poverty age 65-74 for Asians.
% Below Poverty 75+ for Asians (pov_asi75)	Percent of residents living below poverty age 75+ for Asians.

% Below Poverty <65 for Native Hawaiians (pov_natlt65)	Percent of residents living below poverty less than 65 for Native Hawaiians.
% Below Poverty 65-74 for Native Hawaiians (pov_nat6574)	Percent of residents living below poverty age 65-74 for Native Hawaiians.
% Below Poverty 75+ for Native Hawaiians (pov_nat75)	Percent of residents living below poverty age 75+ for Native Hawaiians.
% Below Poverty <65 for Others (pov_othlt65)	Percent of residents living below poverty less than 65 for Others.
% Below Poverty 65-74 for Others (pov_oth6574)	Percent of residents living below poverty age 65-74 for Others.
% Below Poverty 75+ for Others (pov_oth75)	Percent of residents living below poverty age 75+ for Others.
% Below Poverty <65 for Hispanics (pov_hspl65)	Percent of residents living below poverty less than 65 for Hispanics.
% Below Poverty 65-74 for Hispanics (pov_hsp6574)	Percent of residents living below poverty age 65-74 for Hispanics.
% Below Poverty 75+ for Hispanics (pov_hsp75)	Percent of residents living below poverty age 75+ for Hispanics.
% Below Poverty 75+ for Blacks (pov_blk75)	Percent of residents living below poverty age 75+ for Blacks.
% Below Poverty <65 for Am. Indians (pov_amilt65)	Percent of residents living below poverty less than 65 for American Indians.
% Below Poverty 65-74 for Am. Indians (pov_ami6574)	Percent of residents living below poverty age 65-74 for American Indians.
% Below Poverty 75+ for Am. Indians (pov_ami75)	Percent of residents living below poverty age 75+ for American Indians.
% Below Poverty <65 for Asians (pov_asilt65)	Percent of residents living below poverty less than 65 for Asians.
% Below Poverty 65-74 for Asians (pov_asi6574)	Percent of residents living below poverty age 65-74 for Asians.
% Below Poverty 75+ for Asians (pov_asi75)	Percent of residents living below poverty age 75+ for Asians.