NCRAS (*n*=620,249) SEER (*n*=588,735) 620,249 patients diagnoses 588,735 patients diagnoses between 2000 to 2016 between 2000 to 2016 166,877 patients diagnosed before 2005 36 patients with outlier 453,372 patients diagnosed Values and coding errors between 2005 and 2016 13,969 patients younger than 30 or older than 90 years 579,665 patients with no outlier 439,403 patients aged values and coding errors between 30 and 90 years 4,290 patients with outlier 8,030 patients with more Values and coding errors than 4 missing variables 435,113 patients with no outlier values and coding errors 39,251 patients with more 571,635 patients involved than 4 missing variables in the study 395,862 patients involved in the study