Demographics of Patients with Cancer and COVID-19 Disease

UPDATED: June 2, 2020

Patients with Cancer and COVID-19: We identified patients with cancer and COVID-19 by searching for active patients with cancer who have either:

1. Positive laboratory tests for SARS-CoV-2 or other β-coronaviruses (e.g., SARS, MERS)
2. ICD-10 diagnosis codes for COVID-19 disease
3. ICD-10 diagnosis codes for viral pneumonia attributable to ‘Other coronavirus’ or of ‘Unknown etiology’ after Feb 1, 2020

An active patient with cancer is one who has an ICD-9 or ICD-10 diagnosis code for a malignant neoplasm and at least two clinical encounter records (e.g., a clinical visit and/or drug administration) in the practice’s EHR in the 12 month period ending on the date of analysis (i.e. June 2, 2019 – June 2, 2020). All data is de-identified prior to analysis.

Of the 35 CancerLinQ practices providing regular data updates, 25 practices provided SARS-CoV-2 testing data indicating at least 1 patient underwent testing for or indicated a diagnosis of COVID-19 disease, and of these, 18 practices had at least 1 patient with apparent COVID-19 disease (as defined by at least one of the 3 criteria above) and cancer.

We then summarized the distribution of the patients with cancer and COVID-19 by race, gender, ethnicity, and age. For comparison purposes, we have included distributions of all active patients with cancer, denoted as ‘Underlying Cancer Population’ from the 25 practices above. Population sizes for COVID-19 Cancer Cases and Underlying Cancer Population are 444 and 362,659 respectively.

Results:
Figure 1: Distribution of gender for COVID-19 Cancer Cases and Underlying Cancer Population at the CancerLinQ practices reporting COVID-19 results since Feb 1, 2020.

Figure 2: Distribution of race for COVID-19 Cancer Cases and Underlying Cancer Population at the CancerLinQ practices reporting COVID-19 results since Feb 1, 2020. We have combined 'Native Hawaiian or Pacific Islander' and 'Native American or American Indian' into 'Other race.'
Figure 3: Distribution of ethnicity for COVID-19 Cancer Cases and Underlying Cancer Population at the CancerLinQ practices reporting COVID-19 results since Feb 1, 2020.

Figure 4: Distribution of age for COVID-19 Cancer Cases and Underlying Cancer Population at the CancerLinQ practices reporting COVID-19 results since Feb 1, 2020.
Figure 5: Primary neoplastic diagnosis for COVID-19 Cancer Cases and Underlying Cancer Population at the CancerLinQ practices reporting COVID-19 results since Feb 1, 2020.