

# PRELIMINARY ANALYSIS OF SELECTED AT-RISK POPULATIONS DATA

Data Source: EpiTrax data and analysis obtained May 2020 from the Utah Department of Health, Division of Disease Control and Prevention.

Note: Data in this reporting are collected through public health case interviews and medical chart reviews by Utah Local Health Departments. Rare conditions, like kidney disease, may be more likely to be detected when a person is hospitalized and may be associated with other comorbidities. Estimates for risk among individual comorbidities should be considered in conjunction with current known risk categories identified by the CDC.

## Infections, Hospitalizations, and Population by Age Group

Age Group	Utah Population	Number of COVID-19 Infections	% of Age Group with an Infection	Number of COVID-19 Hospitalizations	% of Age Group with an Infection and Hospitalized	COVID Case Hospitalization Rate
15-24	508,937	937	0.18%	24	0.005%	2.6%
25-44	896,009	2,309	0.26%	143	0.016%	6.2%
45-64	621,965	1,704	0.27%	231	0.037%	13.6%
65+*	350,478	580	0.17%	162	0.046%	27.9%

\*For the purposes of this analysis, the 85+ age group was aggregated with all ages over 65 years. It should be noted that the 85+ age group experiences the highest hospitalization rate among all ages at 33%.

## Proportion of COVID Hospitalizations by Age by One or More Known Comorbidity

Age Group	Share of Total Hospitalized	% of Age Group Hospitalized with One or More Known Comorbidity
15-24	4.3% (24/560)	29.2% (7/24)
25-44	25.5% (143/560)	35.7% (51/143)
45-64	41.1% (231/560)	51.5% (119/231)
65+	28.8% (162/560)	56.2% (91/162)

## Proportion of COVID Hospitalizations by Age by Selected High-Risk Condition

Age Group	Cardiovascular Disease	Diabetes	Immuno-compromised	Kidney Disease
Ages 25-44 who are COVID Hospitalized with the Following Conditions	7.0% (10/143)	15.4% (22/143)	2.8% (4/143)	2.1% (3/143)
Ages 45-64 who are COVID Hospitalized with the Following Conditions	16.5% (38/231)	27.3% (63/231)	7.4% (17/231)	6.9% (16/231)
Ages 65+ who are COVID Hospitalized with the Following Conditions	30.9% (50/162)	28.4% (46/162)	14.2% (23/162)	16.0% (26/162)



### Hospitalization Rates of COVID Cases by Age by Known Comorbidity

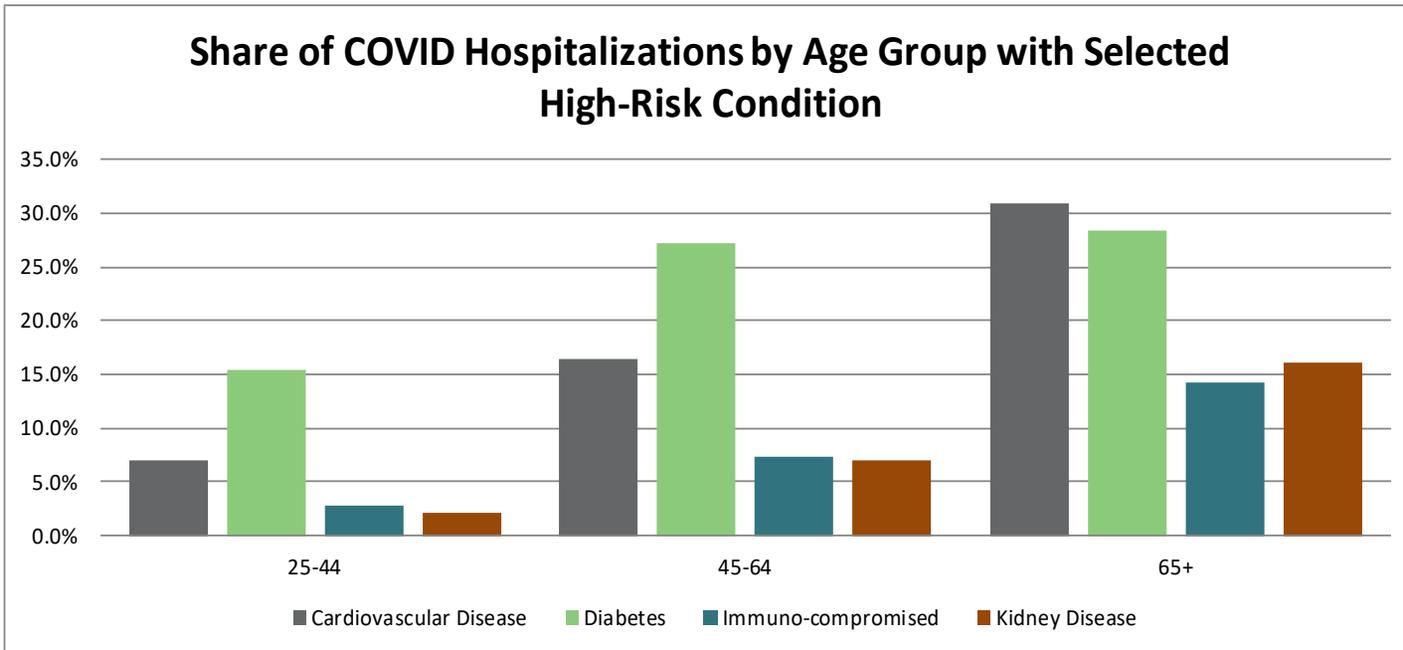
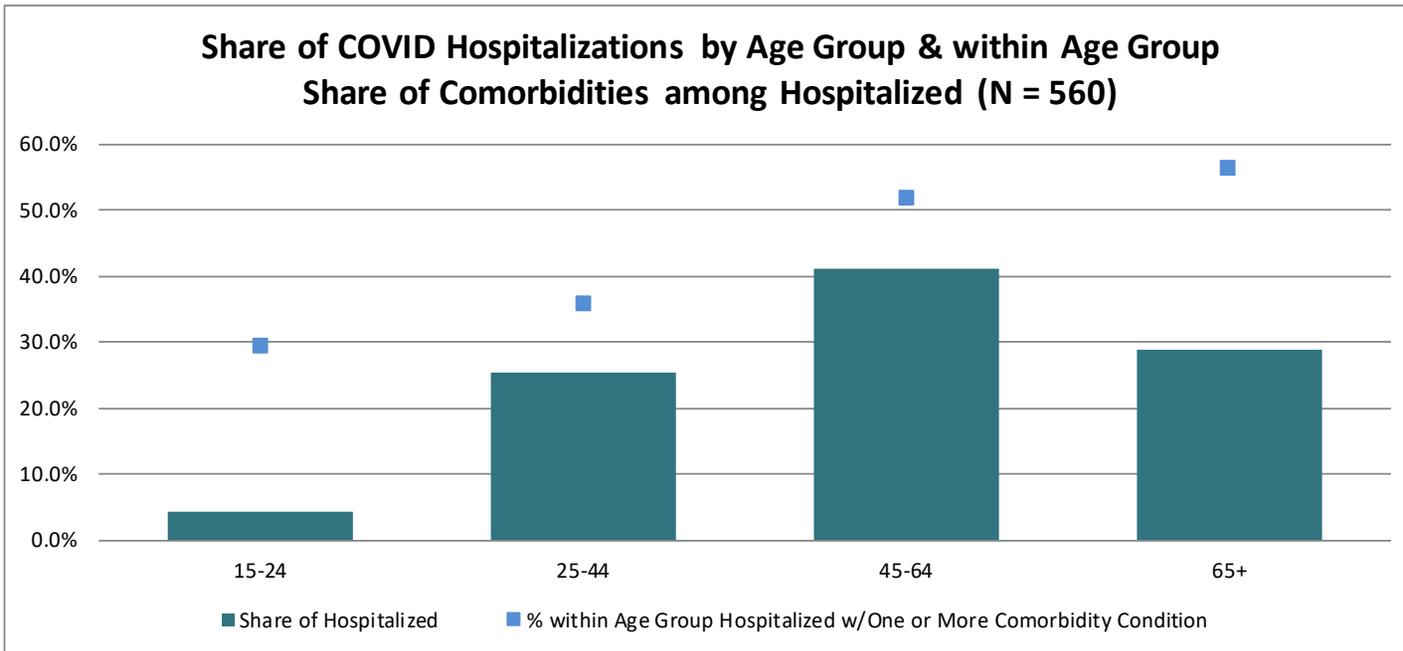
Age Group	COVID Case Hospitalization Rate with No Known Condition	COVID Case Hospitalization Rate with One or More Known Conditions	COVID Case Hospitalization Rate with Two or More Known Conditions
15-24	2.1% (17/824)	6.2% (7/113)	15.8% (3/19)
25-44	4.7% (92/1967)	14.9% (51/342)	21.2% (11/52)
45-64	8.6% (112/1301)	29.5% (119/403)	42.4% (50/118)
65+	21.3% (71/333)	36.8% (91/247)	42.2% (54/128)

### Hospitalization Rate of COVID Cases by Age by Selected High-Risk Condition

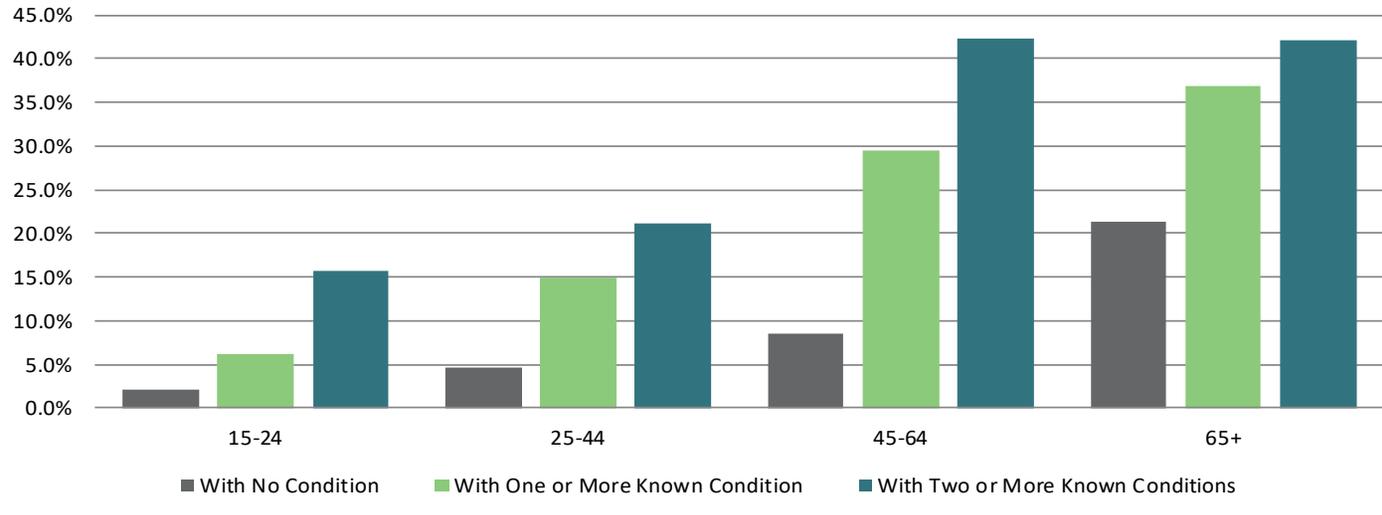
Age Group	Cardiovascular Disease	Diabetes	Immuno-compromised	Kidney Disease
25-44	30.3% (10/33)	33.8% (22/65)	10.8% (4/37)	20.0% (3/15)
45-64	35.5% (38/107)	39.6% (63/159)	28.8% (17/59)	57.1% (16/28)
65+	42.4% (50/118)	43.4% (46/106)	44.2% (23/52)	66.7% (26/39)

### Cases and Hospitalizations by Race and Ethnicity

Race/Ethnicity	% of Utah Population	% of Cases	% of Hospitalizations	Hospitalization Rate
White Alone	78.0%	39.0% (2883/7384)	45.5% (271/595)	9.4% (271/2883)
American Indian/ Alaska Native	2.3%	3.5% (260/7384)	4.9% (29/595)	11.2% (29/260)
Hispanic/Latino	14.2%	37.8% (2789/7384)	35.1% (209/595)	7.5% (209/2789)
Native Hawaiian/ Pacific Islander	1.6%	3.4% (253/7384)	5.5% (33/595)	13% (33/253)
Asian	3.8%	2.4% (178/7384)	2.0% (12/595)	6.7% (12/178)
African American	2.1%	3.2% (233/7384)	3.2% (19/595)	8.2% (19/233)



### Hospitalization Rates of COVID Cases by Age Group and Comorbidity



### Hospitalization Rates of COVID Cases by Age Group and Selected High-Risk Condition

