**Project Title:** Risk of Heart Failure Exacerbation with COVID-19

The following changes have been made since the SOW call: Updated patient population with codes agreed on in call (below), limited to diagnosis sequence 1-10, inpatient only. Added bipap in oxygen notes. Added labs dataset with HgB A1C and proBNP. Your patient population is around 3k encounters.

|  |  |
| --- | --- |
| **I501** | Left ventricular failure |
| **I5020** | Unspecified systolic (congestive) heart failure |
| **I5021** | Acute systolic (congestive) heart failure |
| **I5022** | Chronic systolic (congestive) heart failure |
| **I5023** | Acute on chronic systolic (congestive) heart failure |
| **I5040** | Unspecified combined systolic (congestive) and diastolic (congestive) heart failure |
| **I5041** | Acute combined systolic (congestive) and diastolic (congestive) heart failure |
| **I5042** | Chronic combined systolic (congestive) and diastolic (congestive) heart failure |
| **I5043** | Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure |
| **I5082** | BIVENTRICULAR HEART FAILURE |

**PI**: Kruten Patel/ bli7153 **Project #**: 3293

**Hospital**: Brandon Regional Hospital **Division**: WFL

**Scope**: Enterprise **Research Director**: Didi Pierre-Victor

**Date Range**: 8/01/2020-Present 4/30/2021 **Stats:** Yes

**Other PIs/34IDs**:

Benjamin Killpatrick/idp5747

Devansh Patel/ bke6402

Karim Amidou Abdul/ kze6270

James Abraham/ kce9435

Jorge Perez/ jxu9299

**Age Range**:40-75

**Min Pop:** 400

**Research objective:** Primary objective of this study is to determine the risk of HF exacerbation depending on NYHA classification among COVID positive patients with known HF.

**Data Elements:**

Encounters Length of Stay, Mortality, Age

Demographics Race, Sex, Ethnicity

Diagnoses Heart Failure, HR exacerbation, COVID-19

Home medications NYHA classification

Social History tobacco and alcohol use

COVID Test status, day/time of collection, day/time result

Ventilation Mechanical Ventilation, Sequence number, episode length

**Inclusions**: Heart Failure (ICD-10 I50.1, I50.2, I50.3, I50.4, I50.82), COVID positive

**Exclusions**: End Stage Renal Failure, Liver cirrhosis, , Age>75, End Stage Heart Failure (NYHA IV; ICD-10 I50.84)

**Datasets Needed**:

Encounters

Demographics

Diagnoses

Home medications

Social History tobacco and alcohol use

COVID

Ventilation

**SOW** **Questions/Notes**:

|  |  |
| --- | --- |
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