Health Equity Module Start Tool Kit







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Purpose

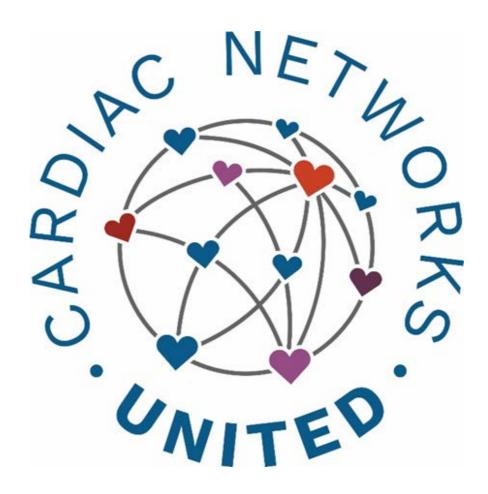
Test the feasibility and knowledge gained from adding equity focused data points to the PAC data registry to delineate disparities in outcomes among our pediatric cardiology population and identify specific areas of improvement

Getting Started

- 1. Email pac3@childrens.com to be added to Health Equity center roster
- 2. Go to https://pac3quality.org/health-equity-module/ for How To videos and forms to use the Health Equity Module
- 3. On SharePoint, refer to the October 14th, 2022 DeGAUSS presentation for a full live demo on the ArborMetrix and DeGAUSS portions of the Health Equity Module
- 4. If issues downloading/installing Docker, please email pac3@childrens.com and gavin.durman@cchmc.org
- 5. All DeGAUSS specific questions can be directed to degauss.org or emailed to brittney.hills@cchmc.org
- 6. After all DeGAUSS tool uploads, please email help@arbormetrix.com with the name of the file you submitted to confirm receipt







Data Definitions Manual Health Equity Module

All sites in PC4, PAC3, and CNOC will have the option to submit Health Equity data. The data collected regarding patient's primary language and need for an interpreter is an extension of the Demographics section in PC4/PAC3 and will synchronize with the patient ID. The primary insurance question and DeGAUSS responses will be collected on a hospitalization level and will synchronize with the hospitalization ID.

Health Equity Module

Primary Language

Required for case closure: Yes

Description: Primary language listed in the clinical information tab regarding a patient. Will assume primary language listed to be parent or guardians until patient is 18 years of age.

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English	Marathi
Spanish	Nepalese
Cantonese	Polish
Mandarin	Portuguese
Tagalog	Russian
Arabic	Somali
French	Tamil
German	Telugu
Greek	Ukrainian
Haitian Creole	Vietnamese
Japanese	Yiddish
Kannada	Other
Korean	

Interpreter Needed

Required for case closure: Yes

Displayed if: Language other than English is selected for Primary Language

Description: Determined by clinical information or demographic information section for patient.

Values Yes

No

Insurance Type

Required for case closure: Yes

Description: Indicate the primary insurance type at the beginning of this hospitalization.

Values	Code	Text	
	1	Public	Includes Medicare, Medicaid, Military Health Care (e.g., TriCare), State-Specific Plan, and Indian Health Service.
	2	Private	Includes all indemnity (fee-for- service) carriers, Preferred Provider Organizations (PPOs), and Health Maintenance Organizations (HMOs).
		Non-U.S. insurance	Includes all non-U.S. insurance
	4	None / Self	No insurance was used by the patient to pay for this admission.

Primary type of public insurance

Values

Displayed if: Public is selected for insurance type

Required for case closure: No

Description: Optional field for any public insurance type. **Identify

differentiation by billing or social worker at individual center

Medicare Medicaid

Military Health

Indian Health Service

Correctional Facility
State Specific Plan

Other Government Insurance

Unknown

Quick Start Coding for DeGAUSS Compatible with Windows/PC Users:

Everyone, including Mac users, please read the original directions for how to geocode here: https://degauss.org/using_degauss.html#Geocoding

This document is just a complementary document that goes along with tutorial videos found on:

https://pac3quality.org/health-equity-module/

1. Code for Installing an Image in the command prompt:

First install geocoder and then whatever other images you want. For the Hearts to Home Project and Health Equity Module, we will also use dep_index and drivetime.

C:\Users\YOURUSERNAME>docker pull degauss/geocoder

C:\Users\ YOURUSERNAME >docker pull degauss/dep_index

C:\Users\ YOURUSERNAME >docker pull degauss/drivetime

2. Code for running the csv file after you have installed an image in the command prompt:

In this example, my csv file is just called "test.csv".

Note: the files must not have spaces and must include ".csv" when running the image. Docker must be open when running any code.

2a. First run your csv file through the geocoder image to add your census tracks:

The output of this will be a csv file with a different name. *In my case, it was*test_geocoded_v3.0.2.csv, so this is what we will plug into the code in the command prompt for other images like *drivetime* and *dep index*

2b. Code for running the csv file to get information from dep_index and drivetime.

Note for drivetime, you need to put your institution name after the csv file name so the drivetime image knows from which geographic point to subtract distance from a patient's home. You can find the abbreviation for each center in the drivetime in DeGAUSS here and copied below. In my example, the abbreviation for Cincinnati Children's is cchmc:







Enter

YOUR filename

Drivetime Codes

Name	Abbreviation
Children's Hospital of Philadelphia	chop
Riley Hospital for Children, Indiana University	riley
Seattle Children's Hospital	seattle
Children's Mercy Hospital	mercy
Emory University	emory
Johns Hopkins University	jhu
Cleveland Clinic	cc
Levine Children's	levine
St. Louis Children's Hospital	stl
Oregon Health and Science University	ohsu
University of Michigan Health System	umich
Children's Hospital of Alabama	al
Cincinnati Children's Hospital Medical Center	cchmc
Nationwide Children's Hospital	nat
University of California, Los Angeles	ucla
Boston Children's Hospital	bch
Medical College of Wisconsin	mcw
St. Jude's Children's Hospital	stj
Martha Eliot Health Center	mehc
Ann & Lurie Children's / Northwestern	nwu
Lurie Children's Center in Northbrook	lccn
Lurie Children's Center in Lincoln Park	lcclp
Lurie Children's Center in Uptown	lccu
Dr. Lio's and Dr. Aggarwal's Clinics	lac
Recruited from Eczema Expo 2018	expo
University of California San Francisco Benioff Children's Hospital	ucsf
Nicklaus Children's Hospital	nicklaus
Medical University of South Carolina Children's Hospital	musc
Children's National Medical Center	cnmc





Children's Hospital of Pittsburgh of UPMC	upmc
Methodist LeBonheur Children's Hospital	methodist
Texas Children's Hospital	texas
Arkansas Children's Hospital	arkansas
Primary Children's Medical Center	primary
Children's Healthcare of Atlanta	atlanta
Children's Medical Center of Dallas	dallas
Lucile Packard Children's Hospital Stanford	packard
Toronto Hospital for Sick Children	toronto
Cook Children's Medical Center	cook
Children's Hospital & Medical Center - Omaha	omaha
Children's Hospital Colorado	colorado
Arnold Palmer Hospital for Children	palmer
Children's Hospital & Clinics of Minnesota	minn
University of Virginia Hospital	uva
Joe Dimaggio Children's Hospital	dimaggio
Cohen Children's Medical Center of New York at Northwell Health	cohen
Dell Children's Medical Center of Central Texas	dell
A.I. duPont Hospital for Children	dupont
Rainbow Babies and Children's Hospital	rainbow
UNC Hospitals Children's Specialty Clinic	unc
Barbara Bush Children's Hospital at Maine Medical	maine





This does not require changes to IRBs or DUAs because no PHI is being sent!

Note: Docker only needs to be downloaded once, not each time DeGAUSS is run.

STEP 1



STEP 2



STEP 3



Enter patient hospitalizations into the CNU registry

You will need the PAC³/PC⁴ patient and hospitalization IDs generated by your data entry platform (e.g. CardioAccess or LUMEDX) or the CNOC patient and clinic visit ID generated by ArborMetrix during the next steps.

Input Patient Information into ArborMetrix

In ArborMetrix, navigate to the **Health Equity** data input section.

Fill in the patient's information.

Batch Upload DeGAUSS Tool Metrics



Download Docker in order to run the DeGAUSS containers on your desktop.

To secure protected health information (PHI), data is not shared until the last step.



Set up a spreadsheet (.csv) file for DeGAUSS



Run DeGAUSS to output the **Deprivation Index & Distance to center** spreadsheets for all patients desired.

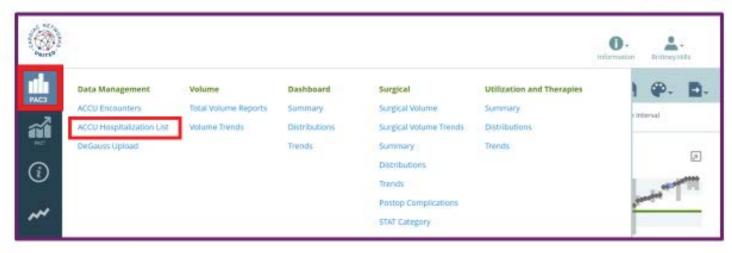


Remove all columns with PHI from spreadsheets and **upload your spreadsheet** to ArborMetrix.

As a safeguard, ArborMetrix will flag (and not accept) files that have PHI column headers.

Accessing the Health Equity Module

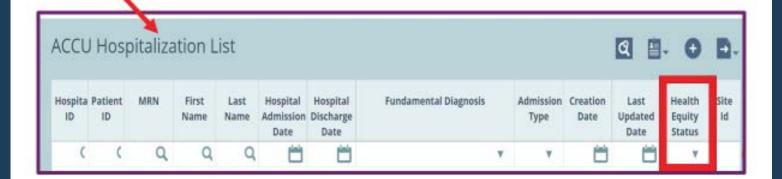




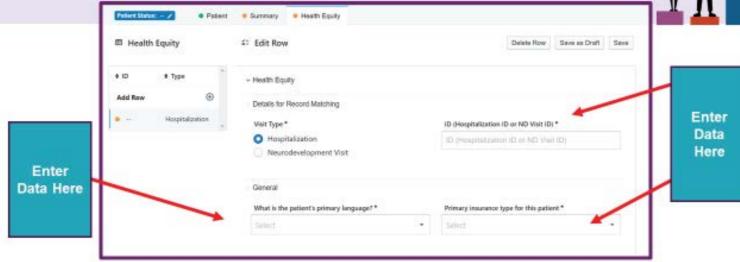
Accessing the Health Equity Module



Select Patient From List



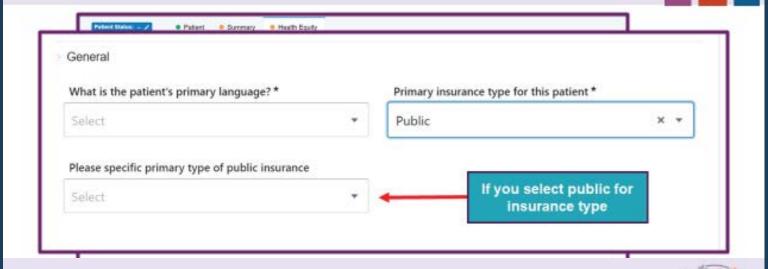
Abstraction



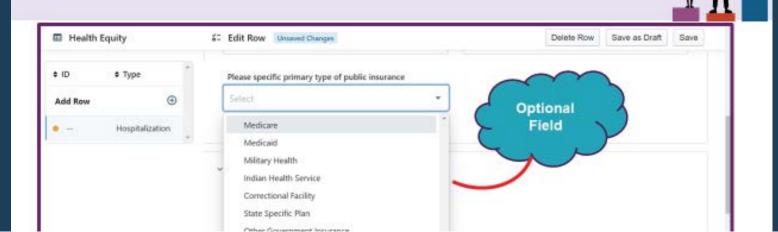
CODA/

Note: Email pac3@childrens.com if you will be entering this data. We will need to update your ArborMetrix account

Abstraction



Abstraction



Preparing DeGAUSS File for Upload into ArborMetrix

STEP 1:

Create a file with hospitalization "id" and "address" as headers.
These have to be precise to avoid file rejection

STEP 2:

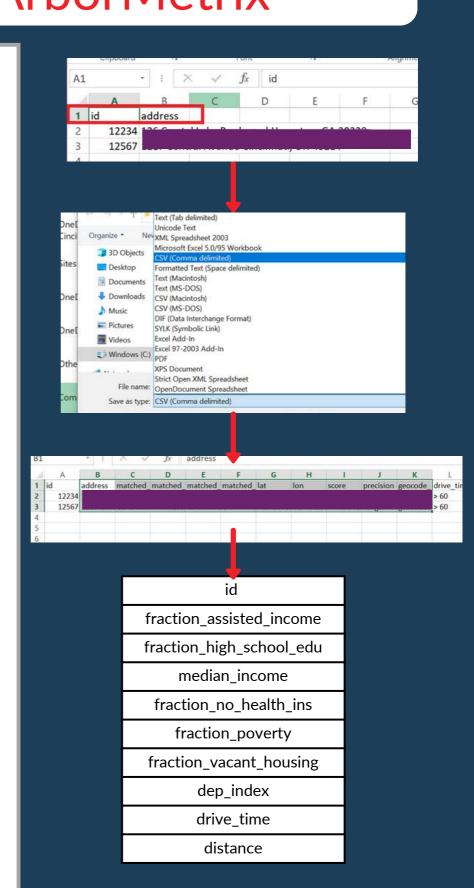
Save the file as a .csv

STEP 3:

Make sure you have run both the deprivation index and drivetime. Delete all PHI including address, matched, lat, and lon

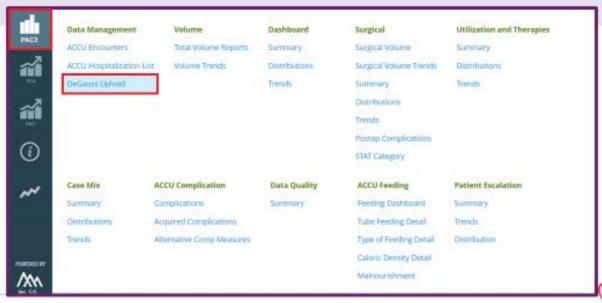
STEP 4:

Each file uploaded to ArborMetrix will need to include 10 columns with exact headings (case sensitive) -->



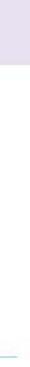
Uploading DeGAUSS file in ArborMetrix

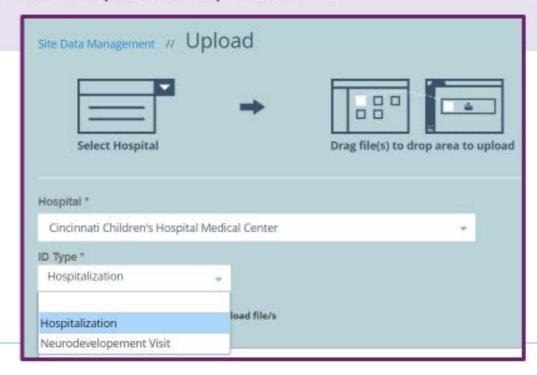






Select Hospital, Hospitalization







Support Options

Docker Support: Gavin Durman | gavin.durman@cchmc.org

DeGAUSS Support: Brittney Hills | brittney.hills@cchmc.org

General HE Module Questions: brittney.hills@cchmc.org pac3@childrens.org brandtaj@med.umich.edu





