California NBS Process for NewSTEPs Data Repository Uploads

Jamie Matteson, MPH

NewSTEPs Data Repository Office Hours
March 24, 2021





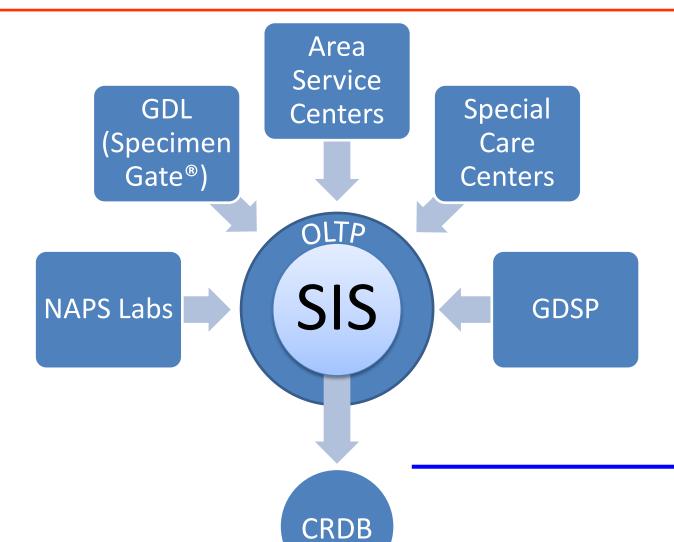
Considerations for "Automated" Upload

- Manual data entry impractical for some states
 - Greater than 800 non-time critical confirmed cases in CA in 2018
- Big time investment for first year
- Big reward in subsequent years
 - Just a few hours to pull, validate, and upload data





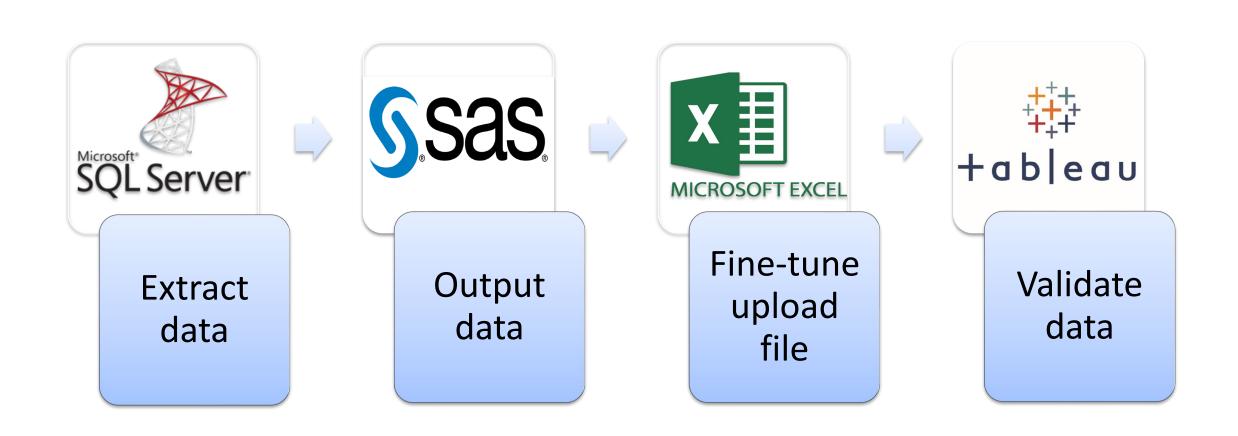
CA NBS Database Structure







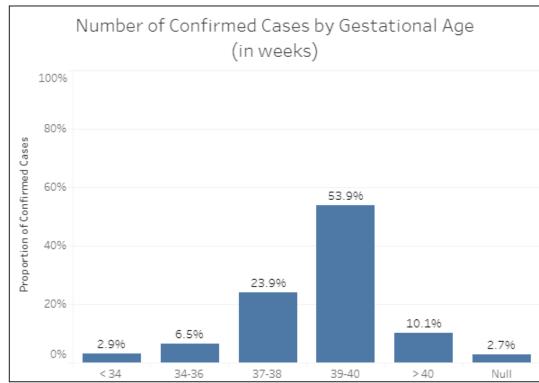
Data Process

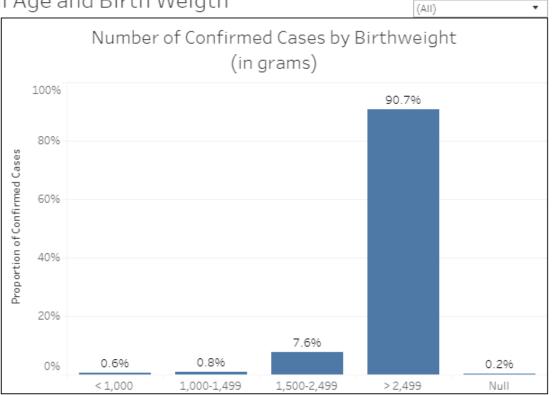


Data Validation

▼ Confirmed Case Counts Sex + Birth Year Ethnicity + Race GA + BW Prenatal Risk + Missed on NBS Timely Specimen Collection Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Collection Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Collection Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Collection Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Collection Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed on NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Specimen Transit Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Results Report Prenatal Risk + Missed On NBS Timely Report Prenatal Risk + Missed On NBS Timely Report

Non-time Critical Cases: Gestational Age and Birth Weigth



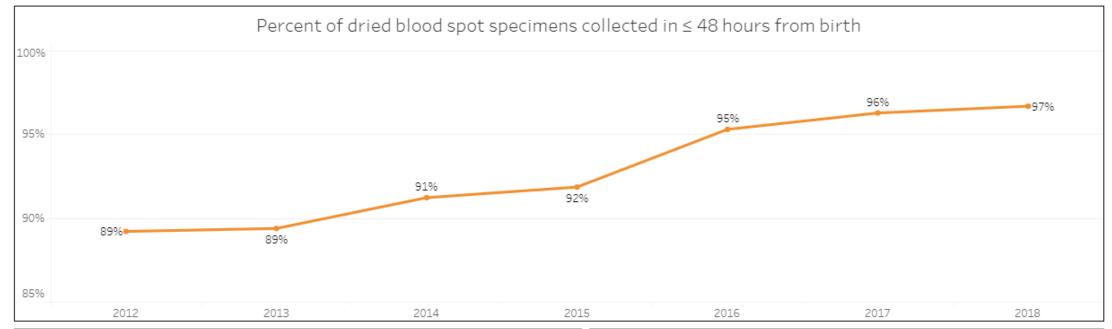


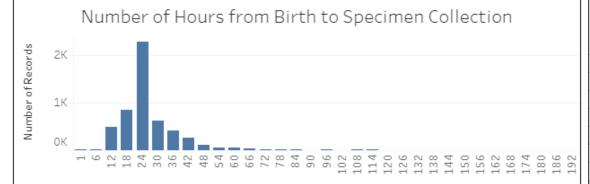
Gestational Age	Client Id	Condition	Birth Year	Birth Weight
20		Short-chain acyl-CoA dehydrogenase def	2018	3,430

Birth Weigth Outliers						
Birth Weight	Client Id	Condition	Birth Year	Gestational Age		
311		X-linked Adrenoleukodystrophy	2018	39		
5,020		Cystic fibrosis - CF	2013	41		
5,093		Cystic fibrosis - CF	2014	39		
5 220		Cystic fibrosis - CF	2016	39		

Data Validation

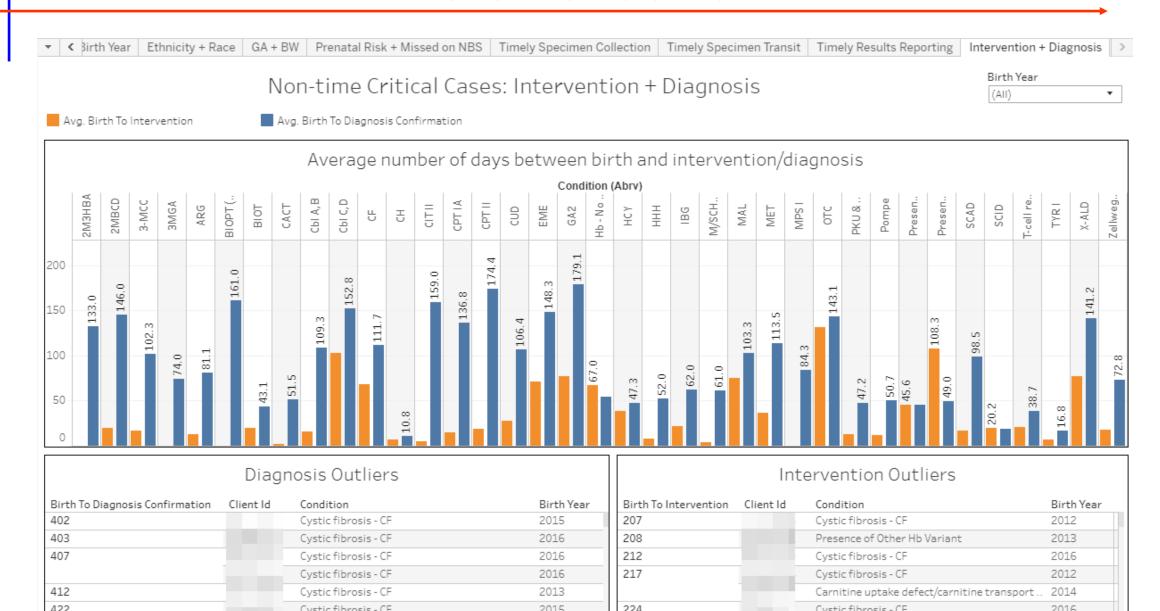
▼ Confirmed Case Counts | Sex + Birth Year | Ethnicity + Race | GA + BW | Prenatal Risk + Missed on NBS | Timely Specimen Collection | Timely Specimen Transit | Timely Results Re > Non-time Critical Cases: Timely Specimen Collection | (All) | ▼





Birth to Specimen Collection Outliers					
Birth To Ini	Birth Year	Client Id	Condition		
203	2013		Cystic fibrosis - CF		
212	2017		T-cell related lymphocyte deficiences		
220	2018		Congenital hypothyroidism - CH		
249	2013		Congenital hypothyroidism - CH		
319	2017		Biotinidase deficiency - BIOT		
387	2016		Severe Combined Immunodeficiencies - SCID		
400	2014		Congenital hypothyroidism - CH		

Data Validation



Final Steps

- Correct outliers
- Convert file to CSV
- Verify file structure with NewSTEPs (may not be necessary in subsequent years)
- Upload file to NewSTEPs Data Repository
- Correct errors/outliers (less frequent since implementing data validation)





Questions?



Jamie.Matteson@cdph.ca.gov



