

The L.A. Trust for Children's Health Data Collection & System Landscape Project

Learning Collaborative Update 5/11/16

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Project Background

- The L.A. Trust seeks to fund and sponsor centralized database to connect student visits to the Wellness Centers to academic achievement and attendance.
- The L.A. Trust sponsored Database Assessment in Q4 2015.
- Database Assessment identified 10 key reports and list of data elements to be collected from Wellness Centers.
- November 2015, UCLA Anderson MBA students agreed to help The L.A. Trust understand clinic reporting and system capabilities.
- January 2016, Nishu Varma joins the UCLA Anderson team to lend them her technical expertise and project management guidance.



Project Overview

Project Purpose

- Understand the data elements Wellness Centers can provide and obtain one time data extracts from clinics
- Gain overall understanding of systems landscapes across Wellness Centers
- Identify database build considerations

Project Approach



1. Share data element requirements with Wellness Centers and collect data extract from each Wellness Center
2. Analyze interview responses and data extracts received from the Wellness Center
3. Present findings to The L.A. Trust Director (Maryjane Puffer), to Wellness Center representatives at Learning Collaborative, and to The L.A. Trust Board members

Project - Value to Wellness Centers

Data captured in the *Centralized Database* (to be built) will be used by The L.A. Trust to translate the information received from various EMRs across the different Wellness Centers into consolidated report(s) that can potentially identify and close the missing gaps between student health and education.

This will allow for:

Factual & statistical proof that services provided by clinics *make a difference* in

- long-term health
- college-readiness &
- quality of life for the students

Intelligence gleaned ACROSS clinics (not just from one clinic) makes for more *powerful claims* that directly impact future funding

Knowing that another clinic is doing something well -- allows **sharing best practices** that other clinics can benefit from

Interviews Conducted

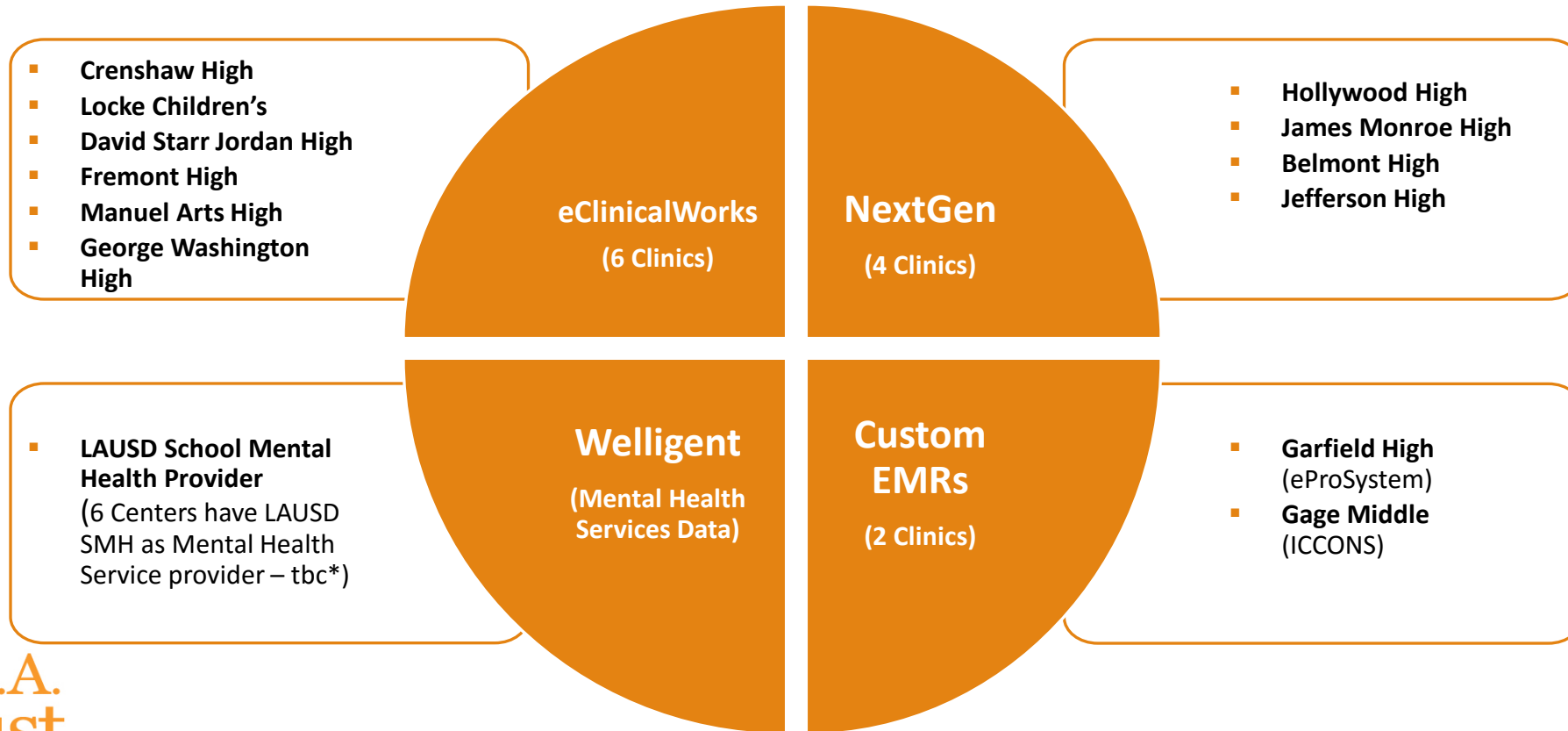
Wellness Center	Grades Served	Primary Contact Interviewed	Additional Person Interviewed
Belmont High School	9 th to 12 th	Mika Aoki	Thelma Rodriguez
Crenshaw High School	9 th to 12 th	Cheryl Trinidad	MelbaDenise "MD"Donnell
David Starr Jordan High School	9 th to 12 th		
Locke Early Education Center	18 months to 6 yrs	Isela Lopez	
Garfield Senior High School	9 th to 12 th	Monica Waggoner	
George Washington High School	9 th to 12 th	Rebecca Dudovitz (UCLA)	
Manuel Arts High School	9 th to 12 th		
Henry T. Gage Middle School	6 th to 8 th	Sandy Wooten	Percy Contreras
Hollywood High School	9 th to 12 th	Nicole Ressa	Margarita Bobe
James Monroe High School	9 th to 12 th	Sue Dion	
Jefferson High School	9 th to 12 th	Brendan Mull	Daryl Hinojosa
John C. Fremont High School	9 th to 12 th	Jackie Provost	



Unable to collect information from Eliz Learning Center (Service provider changed on April 1st) & Carson High School

Findings - EMR Systems Used

- **Overlap** in Electronic Medical Record (EMR) systems used by the different Wellness Centers
- **IT Support:** 6 clinics have in-house IT support, 3 clinics use vendor support and 2 clinics tap into vendor as well as in-house IT services



Findings - Reporting Abilities

Wellness Centers have separate reports for visit level details and billing details

External report generation tools, and existing reports used to extract data
(6 to 10 + hours to extract & provide data requested)

Immunization details stored in online CAIR system

“Service Type” details typically stored as ICD-10 codes



Insights will shape database design and data extraction processes

Findings - Data Elements For Reporting

Findings are based on 10 data extracts and discussions with 12 Wellness Centers

- Patient ID is not always tied to LAUSD Student ID
- Age, Gender, Race and Home Zip code are collected by most all Wellness Centers
- Most clinics do not track patients by school or patient type (patients between the age of 5 and 18 are generally counted as students)
- Grade is not tracked (as it changes every year and would require annual updates)
- Non-medical information (like referred by, school name) is rarely collected
- Filling out the form completely and correctly is not enforced

Findings - Data Elements Details

# of Wellness Centers (out of 12) that are able to provide requested data element	
Unique De-identified Patient Id (not student name)	10
Patient Type (Student, Student from off-campus, Non-Student)	4
Service Type (Behavioral, Dental, Medical)	11
Behavioral Service Type Detail	3
Dental Service Type Detail	6
Immunization Service Type Detail	5
Sexual & Reproductive Health Service Type Detail	10
Type of Billing	9
Type of Reimbursement	2
Wellness Center designated as the primary care provider (yes/no)	0
Primary care designation "switched" to the Wellness Center (select from pull down list)	0
Wellness Center assists with insurance enrollment (select from pull down list)	0
Referred By	2
Easy to find from school? (students answers)	3
Gender	12
Age	12
Grade	0
Race	10
Home Zipcode	11

Next Steps & Long Term Goals

Proposed Short-term Steps

- **Data Collection & Consolidation:** The L.A. Trust to collect *encounter level* data from the clinics
 - Requests made of clinics for data should aim to reduce the number of data manipulations the clinic must do to provide data. Scripts to standardize and consolidate data to be owned by The L.A. Trust
- **Reports:** Wellness Center Dashboard reports (that are currently created in Excel based on aggregate data) to be created from a centralized database based on encounter level data
- **Proposed Recommendations for Wellness Centers:**
 - Create data elements to differentiate between student, off-campus student, and non-student
 - Process to share data collection and reporting best practices among Wellness Center

Long-term Goals

- **Data Collection & Consolidation:** Create an automated way to get data from various Wellness Center EMR systems
- **Linkage / De-identification:** Work with Wellness Centers and LAUSD on protocols / rules to link and de-identify student and medical data
- **Reports:** Reports to prove that Wellness Center encounters improve academic achievements and attendance

Thank You