

Client Empowerment: Engaged Care through Connected Records

Karis Grounds 2-1-1 San Diego

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Client Empowerment: Engaged Care through Connected Records

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CONTEXT: The BIG Vision Build a Community Data Ecosystem for Children











- Health care systems: struggle to coordinate care and engage patients and care givers
- Education systems: struggle to coordinate services for students and engage parents/families
- Understanding child well-being involves health, school systems, social supports, equity issues

 How do we leverage advancements in technology and communications to create an integrated data ecosystem?

Community Data Ecosystem for Children: Multiple cross-sector collaborative projects

- Early Childhood Results Count!
 - Early identification of children with developmental delay, linkage to appropriate care
 - Closed loop referral system
 - Medical providers, Early Childhood providers, 211 UWATX, Aunt Bertha
 - STATUS: Addressing MOA and consent issues, data gov, planning for pilot

STORY App

- Parent/patient-centric integrated system for <u>children with medical complexity</u>
- Value based health care
- STATUS: Being deployed, identifying superusers
- Community School Model for a Campus-Coordinated Health System
 - Health equity challenges impact school success
 - Wrap around family services, school health, mental health, FQHC Clinics
 - STATUS: Concept submitted for review



Community Information Exchange **Core Components**





Network Partners

Collective approach with standard Participation Agreement, Business Associates Agreement and participant consent with shared partner governance, ongoing engagement, and support.





Shared Language (SDoH)

Setting a Framework of shared measures. and outcomes through 14 Social Determinants of Health Assessments and a Risk Rating Scale: Crisis, Critical, Vulnerable, Stable, Safe Thriving



Bidirectional Closed Loop Referrals

Updated resource database of community, health, and social service providers. Ability to accept/return referrals and to provide outcomes and program enrollment.



Technology Platform and Data Integration

Technology software that integrates with other platforms. to populate an individual record and shapes the care. plan. Partners access the system. System features include: care feam communication feeds, status change alerts, data source auto-history and predictive analytics.



Community Care Planning

Longitudinal record with a unified community care plan that promotes cross-sector collaboration and a holistic approach.





Client Record Sample

Client Profile

• Demographic and important information about the client

Domains

- Examples like Housing, Food & Nutrition,
- Categorization of Needs (SDOH) & Risk Level
- Shared Assessments and Values across agencies

Care Team

- Case Managers working with client across agencies
- Contact Information

Referrals & Program Enrollment

- Agencies or programs client is referred
- Connection to Services

Alerts

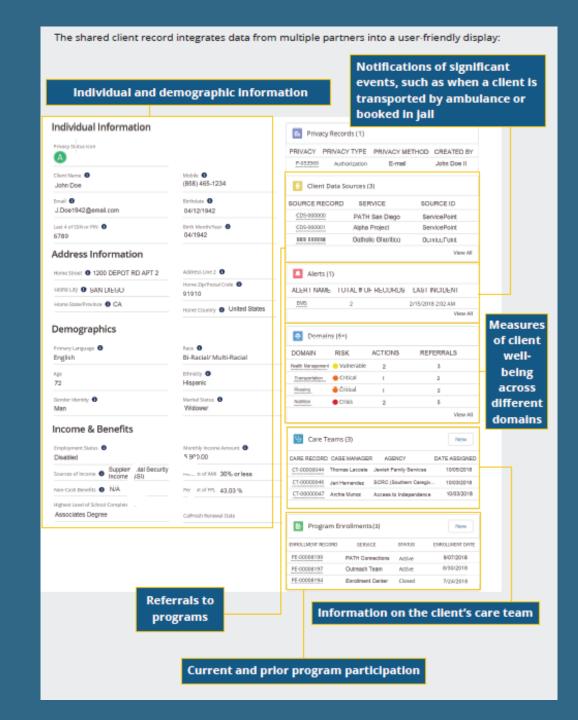
- Notification of emergency services & jail
- Ability to notify Care Team Members of changes

Feed

 Ability to communicate with Care Team members (twitter-like feed)







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People and Process

Why build the STORY App?



Physicians: Hospitals,
Specialty Clinics



PT/OT/Speech Therapists



Durable Medical Equipment



Insurance Providers



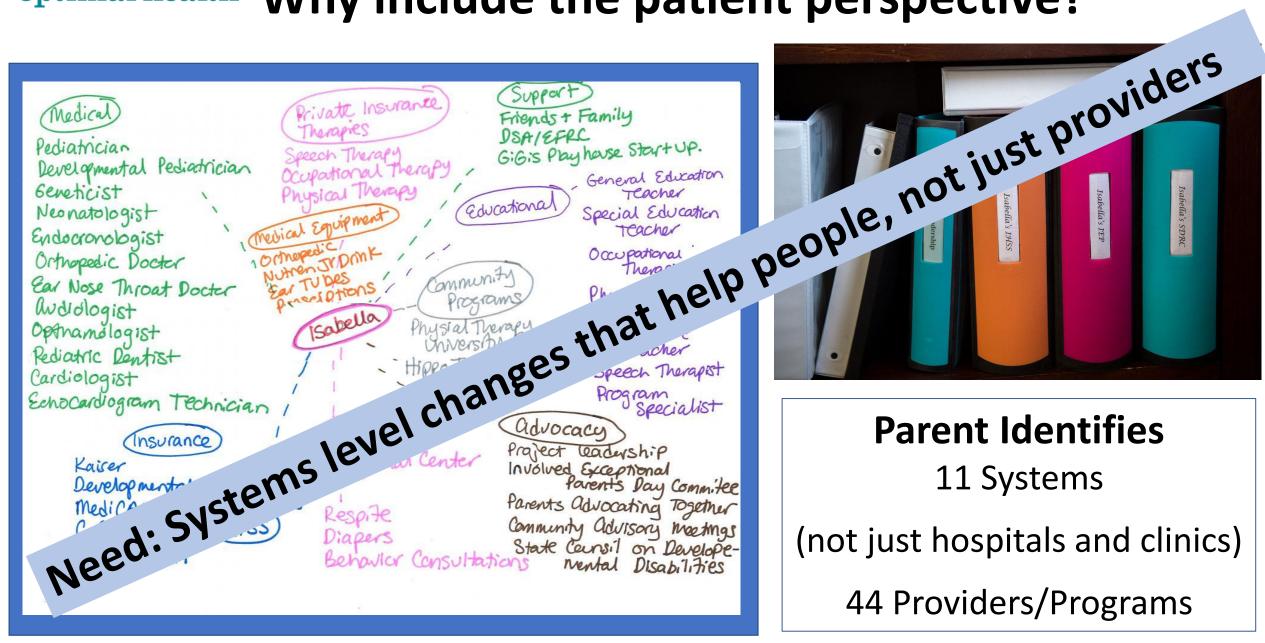
Home Health Nursing



School Nurses

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Why include the patient perspective?





44 Providers/Programs

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How did you build the STORY App?



Knowing Users vs Speaking to Users

Theresa Neil

You probably do know your users, so work that relationship during the UX (re)design process. Here's 3 good times to talk:



Concept Validation





Prototype → Test → Revise → Pilot/Deploy



What were key successes/challenges?

Successes

DPT DME PDN Therapy

SOLUTIONS

Story

CLOUD FOREST SOLUTIONS

Data

CLOUD FOREST SOLUTIONS

Data

PATIENET

The University of Texas at Austin

Dell Medical School

- Desktop
- Mobile
- DPT
 - DME, Nurse, OT/PT
- Shared Care Plan
- Child's Story
- Data Core
- Utilization Data
 - Value based care

Challenges

- Bureaucratic complexity
 - Needing national approvals
 - Multiple committees
 - Inertia
- Multiple Tech Systems
 - Hospital EMR
 - Clinic EMR(s)
 - Home Nursing
 - Durable Medical, PT/OT
- Business negotiations, trust
 - Small, facile developer
 - University data backbone
 - Research Medical School

People and Processes



Importance of Participant Portal

- Person-Centered Model
- Community-owned data (ability to consent and revoke)
- Tracking who is helping me (Referrals, Programs, Care Teams)
- Empowerment (access and collection)



Collective Development

Feedback from Community Partners (on behalf of clients/patients

- System wide Person-Centered
- Helpful for uploading/storing documents
- Ability to choose to create profile and consent
- Information requested vs. needed

Feedback from Participants

- User interface-easy to use, looks good, intuitive
- Support themselves or others within network
- Update own information
- Too much information (asks for too much)
- Track services they have access
 - Examples of testing sites: Library, Mental Health & Addiction Services, Senior (Grandparents Raising Grandchildren)

Chief Compliant:

- How much is too much?
- Expectations different in clinical vs. social services
- User Interface/Utilization

Success:

- True Client Empowerment and Access to Information
- Shared Communication
- Limited Patient Portal for social services vs. EHR/medical



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Technical and Legal Development

What is the STORY App?

- It is **NOT** an Electronic Medical/Health Record, HIE, CIE
- STORY is a platform independent solution
 - Entities continue to use their existing record systems
 - Creates a 'Curated STORY' of the person
 - Collating essential details from across key persons involved in care
 - STORY view is tailored to user needs (MD, Nurse, Therapist, Parent)
 - Best practice guidance via physician order sets, care plans
 - Parent controls consent, who has access
 - Holistic time-series view of the patient's health
 - Aggregates utilization data across patient, provider, site, etc.
 - Essential for developing value-based health care



Technical Development and Data Governance

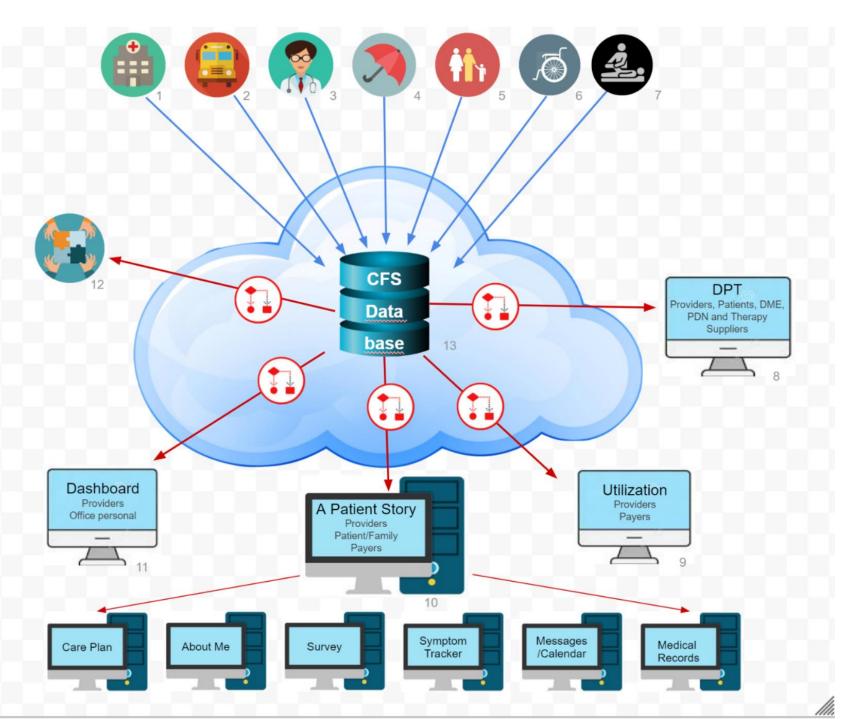


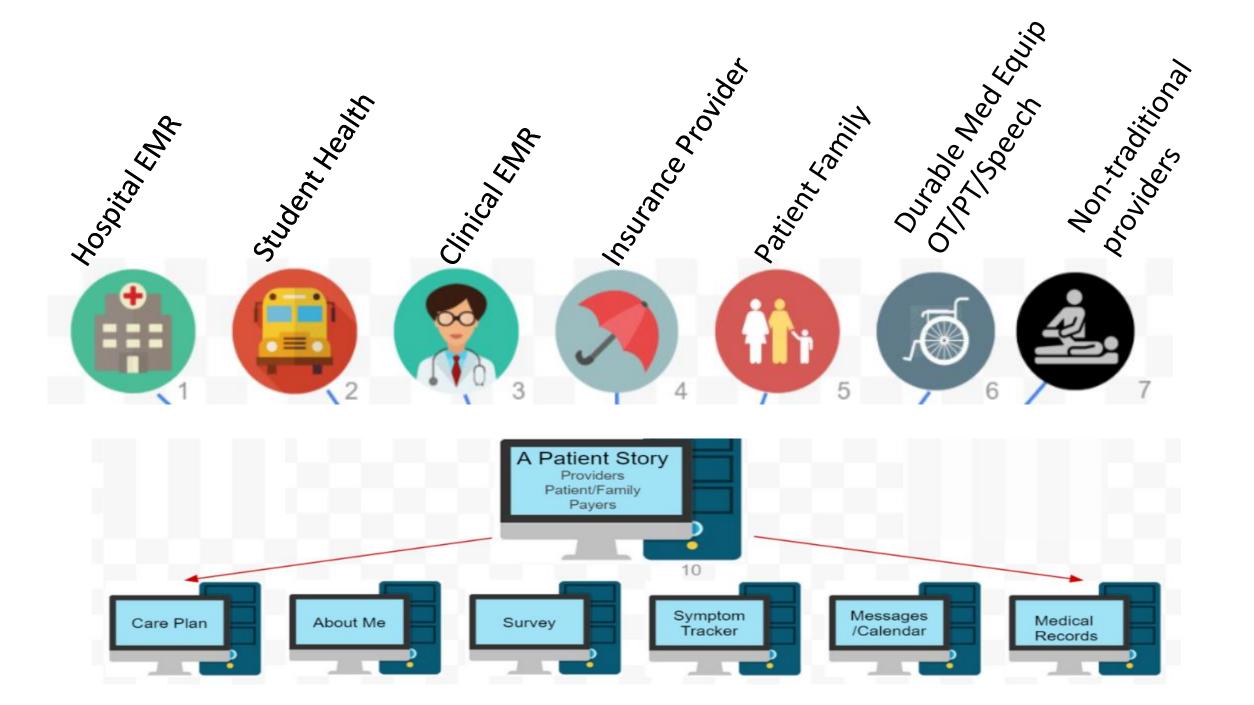
The University of Texas at Austin

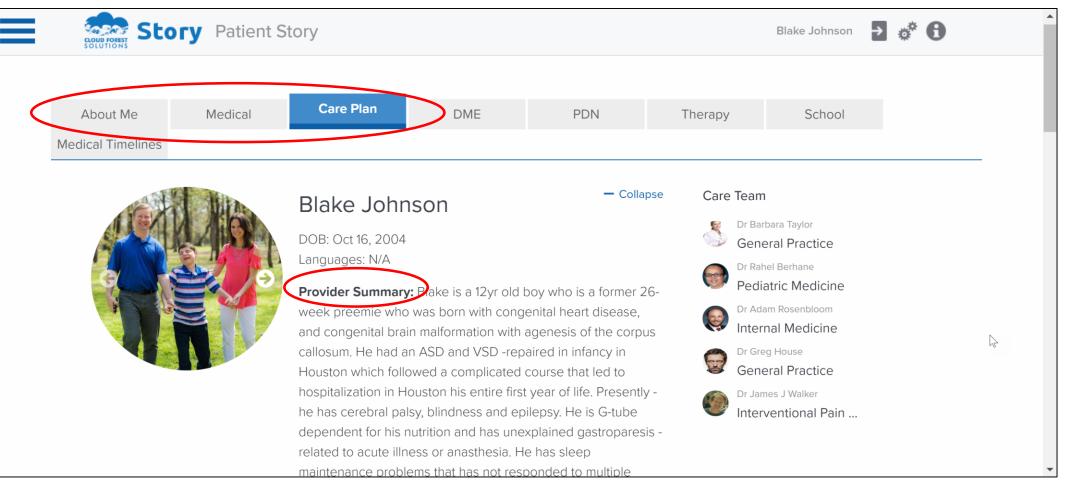
Dell Medical School

- Innovative, facile developer
 - Intellectual Property protection
 - Patenting
- Based on Fast Health Interoperability Resource (FHIR)
- Application Programming Interfaces (APIs)
- Ascension/Seton (national health system)
 - Required multiple reviews/approvals from local to national
 - Hospital and Clinic EMRs are different
- Trusted 3rd party for back end (Dell Medical School)
 - BAAs, DUAs
- Data Governance issues TBD



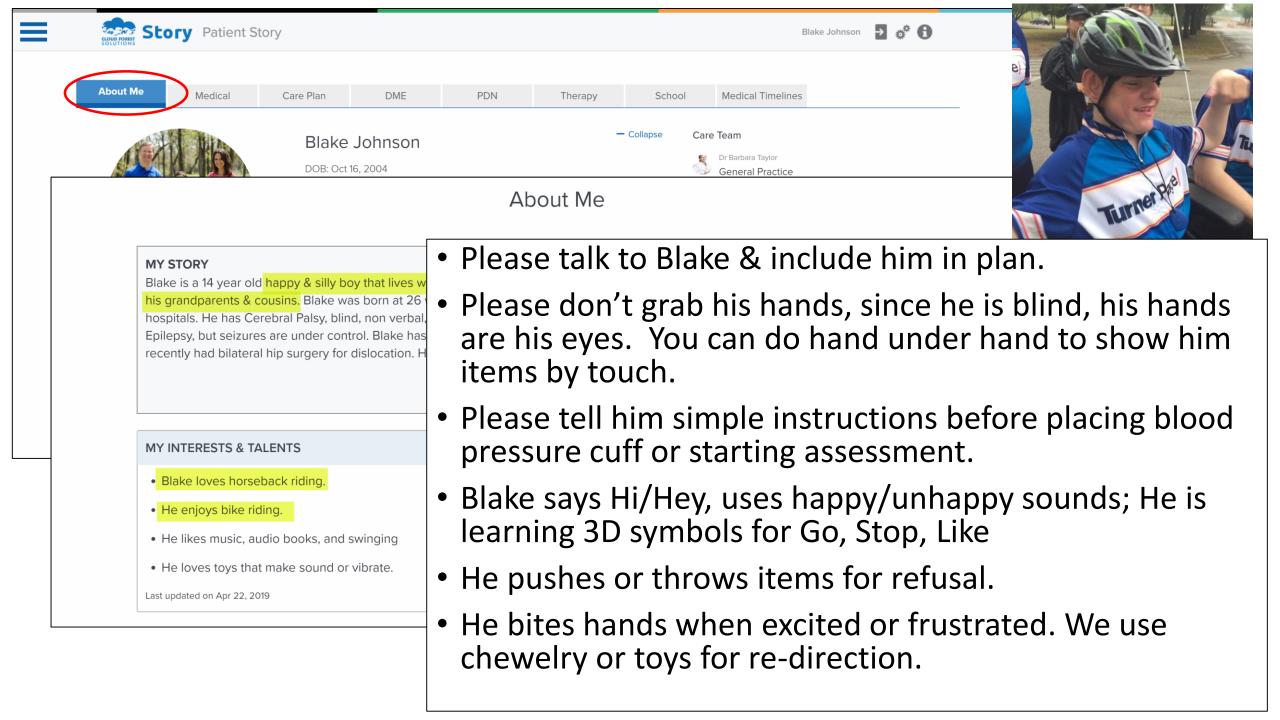


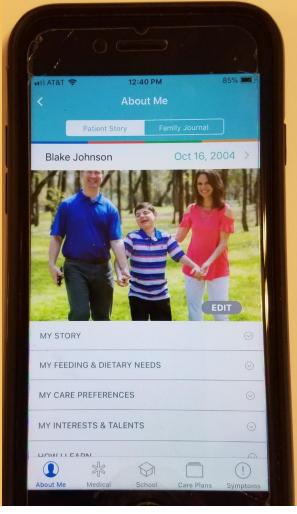


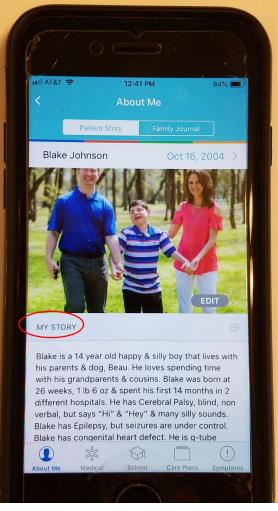


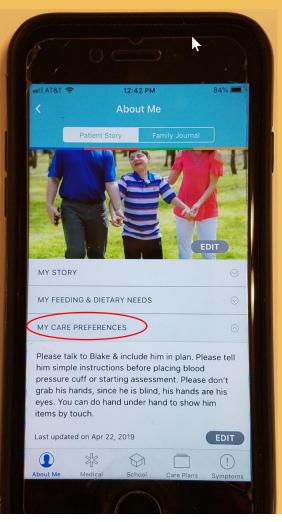
- 26-week premie
- Congenital heart disease
- Congenital brain malformation
- Cerebral Palsy

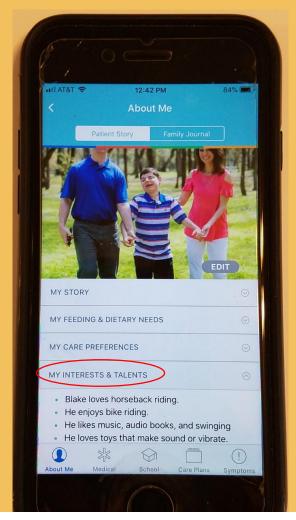
- Blindness
- Epilepsy
- G-tube dependent











- This is REALLY Great for kids with multiple disabilities! I carry a notebook to all appointments that's hard to keep up to date. Doing this on my phone would be so much easier.
- I have providers in different cities/health systems. I want to include all providers to keep them all informed.
- I'd like to be able to print pages from my phone. Forms in medical offices don't have enough space to write all
 hospitalizations, meds, etc. I could print the page and they would have it.
- Ability to add video clips is great. Then the psychiatrist/psychologist can see the behaviors I describe.

Technical and Legal Development



Technology/Building Portal

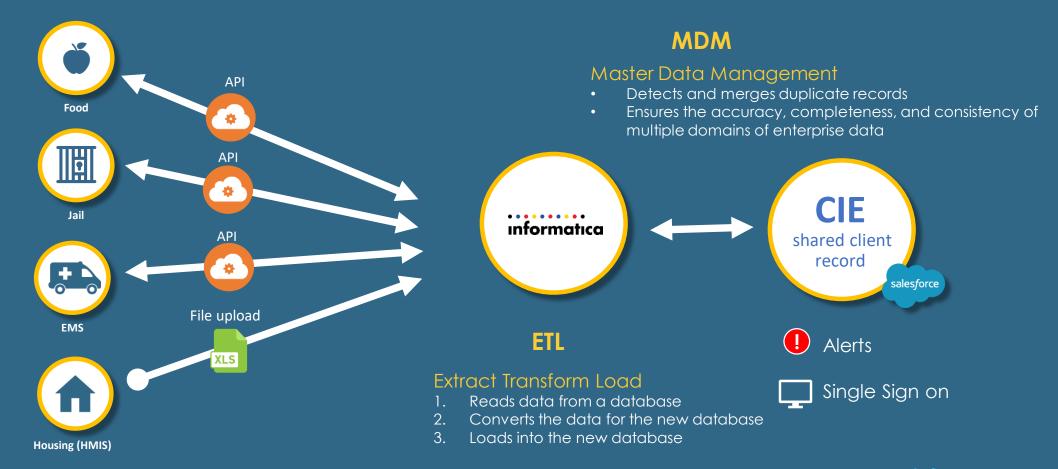
Goal: Access, empowerment and participant involved with their care

- View into the CIE with ability to set-up account on their own
- Aggregates both social and medical information
- Holistic view of access to services, resources and people
- Interface pulls select data from full community portals
- Provide insights from their perspective





Technology Platform

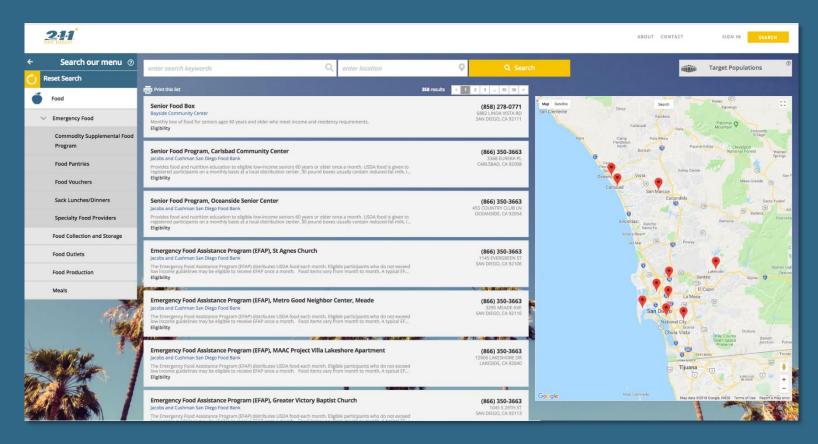






Resource Database

Hub for social and health sites and providers



- Shared taxonomy language for referrals (AIRS)
- Dedicated resource staff
- Regular updates made to resources
- Standards to listings and requirements
- Inclusion/Exclusion Criteria
- Linked to health conditions
- Tracks resource availability and unmet needs



Participant Portal



Sadie Blue

WIT PROFILE	MY PLAN	GET CONNECTED	MY FAVORITES
			PRINT
/ly Profile & S	ettings		Ed
Adding information now can save	you time later when you are get	ting help from 2-1-1 and other provider	5.
About Me:			
First Name		Last Name	
Sadie		Blue	
Birthdate		Phone	
01-01-1969	ä	(770) 402-5191	
Email		Last 4 digits of Social Security N	lumber
sadieblue@gmail.com		1234	
My Summary:		'	
Things people should know when I am asking them for help:		Challenges I have experienced when accessing resources:	
I have two kids, and we've been stru looking for any kind of help, food, sh		It's hard getting around town. My car wa afford to get it back.	as impounded and I couldn't
Resources or support that I an	n already using:		

Pulls relevant information from Community Portal to Patient Portal

- Only specifically identified fields
- Reformatted language to be personal and relevant

My Profile & Settings

- Who you are?
- Demographics and Contact Information

My Summary

- Ability share thing about myself
- Things I need help or support with
- Challenges



My Plan

Care Team

Case Managers who I am working with

Referrals & Program Enrollment

- Agencies or programs client is referred
- Connection to Services

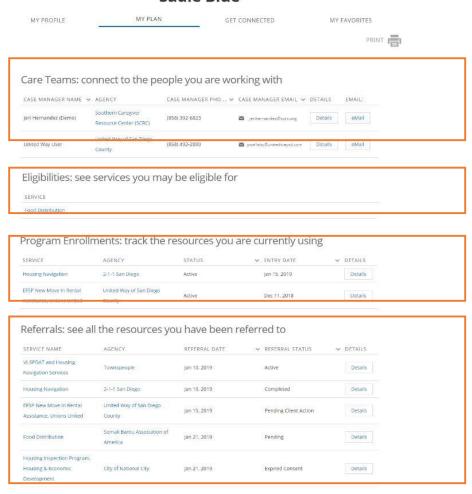
Eligibility

Programs I may be eligible for





Sadie Blue



My Favorites

*Use media features that are to familiar to participant
"Facebook like or favorite"



Sadie Blue

MY FAVORITES MY PROFILE MY PLAN **GET CONNECTED**

Career Horizons for Young Women

Just In Time for Foster Youth

Supports youth who are pursuing a GED high school diploma and those who are pursuing vocations: police work, cosmetology, welding, graphic design, plumbing, and teaching. Also provides needs such as transportation, in addition to career exploration and networking opportunities with individuals within the community. Career Horizons for You Eligibility

(760) 505-6647

4560 ALVARADO CANYON RD STE 2G SAN DIEGO, CA 92120



Resources I like:

- Ability to Favorite programs
- Learn more about eligibility
- **Empowerment**

Senior Nutrition, Brawley Senior Center

Catholic Charities

Provides lunch to seniors in a congregate meal setting. Transportation to the congregate meal site is also available in El Centro, Brawley, Calexico, and Salton City.

Eligibility

(760) 353-2748

BRAWLEY, CA 92227

Remove from Favorites

(800) 952-5609

National School Lunch Program

United States Department of Agriculture

The National School Lunch Program (NSLP) is a federally assisted meal program operating in public, nonprofit, and private schools and residential child care institutions. It provides nutritionally balanced, low-cost or no-cost lunches to children each school day

Eligibility

Remove from Favorites



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Use, Outcomes, Next Steps

Use, Outcomes, Next Steps

Front End Implementation

Use and Outcomes

- Desktop is deployed
 - Clinicians can use
 - Cost savings from Durable Medical Equipment
- Mobile version moving from pilot testing to full deployment
 - Positive responses from pilot parents

Next Steps

- 10 Superusers targeted among parents, buddy system
- Assess what will make mobile use 'sticky', tool for daily use

Use, Outcomes, Next Steps

Back End: Data Core/Dell Medical School

Use and Outcomes

- Cloud Forest Data Environment fully functioning
- Data mirrored in Dell Medical School Data Core

Next Steps

- Enhance data flows into DMS Data Core
- Add EMR Aggregators, extends EHR systems that can be included
- Address Data Governance for research, community learning

Use, Outcomes, Next Steps

Insights: Utilization and Care Transformation

Use and Outcomes

- Seeking to give parent/caretaker equivalent status with medical team
- Payer data is incorporated
- Utilization analyzed by patient, provider, site, clinic, procedure

- Next Steps
- Improving turnaround time in accurate payer data (current 2 month delay)
- Cost analysis
- Value-based care

Use, Outcome and Next Steps

State of Participant Portal

Use and Outcomes:

- Still in demo site, testing with more participants before launch
 - Homeless/Housing Instability is crucial
- Meaningful Launch-ensure buy-in

Next Steps:

- Data Analytics on Utilization (consents and data sharing)
- Evaluation on Client Empowerment and impact on care by using app

Thank You!



Podcast link

https://www.allindata.org/resources/podcast-designing-a-family-centered-care-plan-for-children-with-special-needs-in-austin-tx/



Dr. Susan Millea (Left) and Dr. Rahel Berhane (Right)

Thank you!

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