



The Office of the National Coordinator for  
Health Information Technology

# HIEs and Human Services Across Communities

A Plenary Panel Discussion with 2-1-1 San Diego, MyHealth Access, and SHIEC

Kelly Hoover Thompson, CEO, Strategic Health Information Exchange Collaborative (SHIEC)

Dr. David Kendrick, CEO, MyHealth Access Network

John Ohanian, CEO, 2-1-1 San Diego

Mark Vafiades, Senior Advisor to the National Coordinator, ONC (Panel Moderator)



# History of CIE



**2010**

Community Initiative around frequent fliers

2-1-1 joins LIVE WELL SAN DIEGO

**Cohort 1**

Homeless Providers (Single sign on to HMIS)

**2016**

CIE returns to 2-1-1 San Diego



**2018**

Launch of CIE within new Salesforce platform with bi-directional referrals

**2011**

Community Exchange Created through Alliance Healthcare Foundation i-2 grant to 2-1-1

**Cohort 2**

Senior Providers



**2017**

Launch referral network for veterans, UniteUS platform



## Year 1: Homeless Cohort Analysis



**26%** reduction

EMS Transports Post CIE enrollment



**44%** improvement

Remained housed in permanent housing

## Shared Goal:

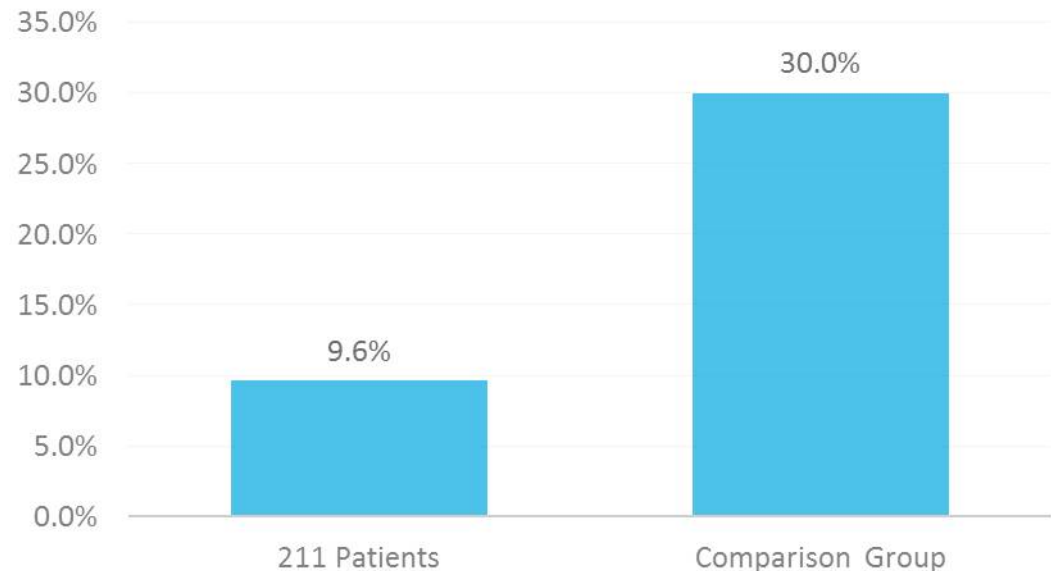
Assist in the transition from hospital discharge to home by assessing and connecting to social determinants of health resources through electronic referrals from EHR to 2-1-1 Health Navigators

## Measures:

- Percent of individuals readmitted into hospital
- Improvement on shared risk rating scale
- Patient Satisfaction
- Self-Efficacy

## Year 1 Outcomes: 2016-2017

### Hospital Readmission Rates



# Community Information Exchange



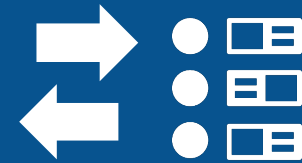
## Network Partners

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 team 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.



# Resource Database

Hub for social and health sites and providers



Search our menu

Reset Search

Food

Emergency Food

Commodity Supplemental Food Program

Food Pantries

Food Vouchers

Sack Lunches/Dinners

Specialty Food Providers

Food Collection and Storage

Food Outlets

Food Production

Meals

enter search keywords

enter location

Search

Target Populations

Print this list

358 results

**Senior Food Box**  
Bayside Community Center  
(858) 278-0771  
5882 LINDA VISTA RD  
SAN DIEGO, CA 92111  
Monthly box of food for seniors ages 60 years and older who meet income and residency requirements.  
Eligibility

**Senior Food Program, Carlsbad Community Center**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
3368 EUREKA PL  
CARLSBAD, CA 92008  
Provides food and nutrition education to eligible low-income seniors 60 years or older once a month. USDA food is given to registered participants on a monthly basis at a local distribution center. 30 pound boxes usually contain reduced-fat milk, L...  
Eligibility

**Senior Food Program, Oceanside Senior Center**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
455 COUNTRY CLUB LN  
OCEANSIDE, CA 92054  
Provides food and nutrition education to eligible low-income seniors 60 years or older once a month. USDA food is given to registered participants on a monthly basis at a local distribution center. 30 pound boxes usually contain reduced-fat milk, L...  
Eligibility

**Emergency Food Assistance Program (EFAP), St Agnes Church**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
1145 EVERGREEN ST  
SAN DIEGO, CA 92106  
The Emergency Food Assistance Program (EFAP) distributes USDA food each month. Eligible participants who do not exceed low income guidelines may be eligible to receive EFAP once a month. Food items vary from month to month. A typical EF...  
Eligibility

**Emergency Food Assistance Program (EFAP), Metro Good Neighbor Center, Meade**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
3295 MEADE AVE  
SAN DIEGO, CA 92116  
The Emergency Food Assistance Program (EFAP) distributes USDA food each month. Eligible participants who do not exceed low income guidelines may be eligible to receive EFAP once a month. Food items vary from month to month. A typical EF...  
Eligibility

**Emergency Food Assistance Program (EFAP), MAAC Project Villa Lakeshore Apartment**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
12606 LAKESHORE DR  
LAKESIDE, CA 92040  
The Emergency Food Assistance Program (EFAP) distributes USDA food each month. Eligible participants who do not exceed low income guidelines may be eligible to receive EFAP once a month. Food items vary from month to month. A typical EF...  
Eligibility

**Emergency Food Assistance Program (EFAP), Greater Victory Baptist Church**  
Jacobs and Cushman San Diego Food Bank  
(866) 350-3663  
SAN DIEGO, CA 92116  
The Emergency Food Assistance Program (EFAP) distributes USDA food each month. Eligible participants who do not exceed low income guidelines may be eligible to receive EFAP once a month. Food items vary from month to month. A typical EF...  
Eligibility

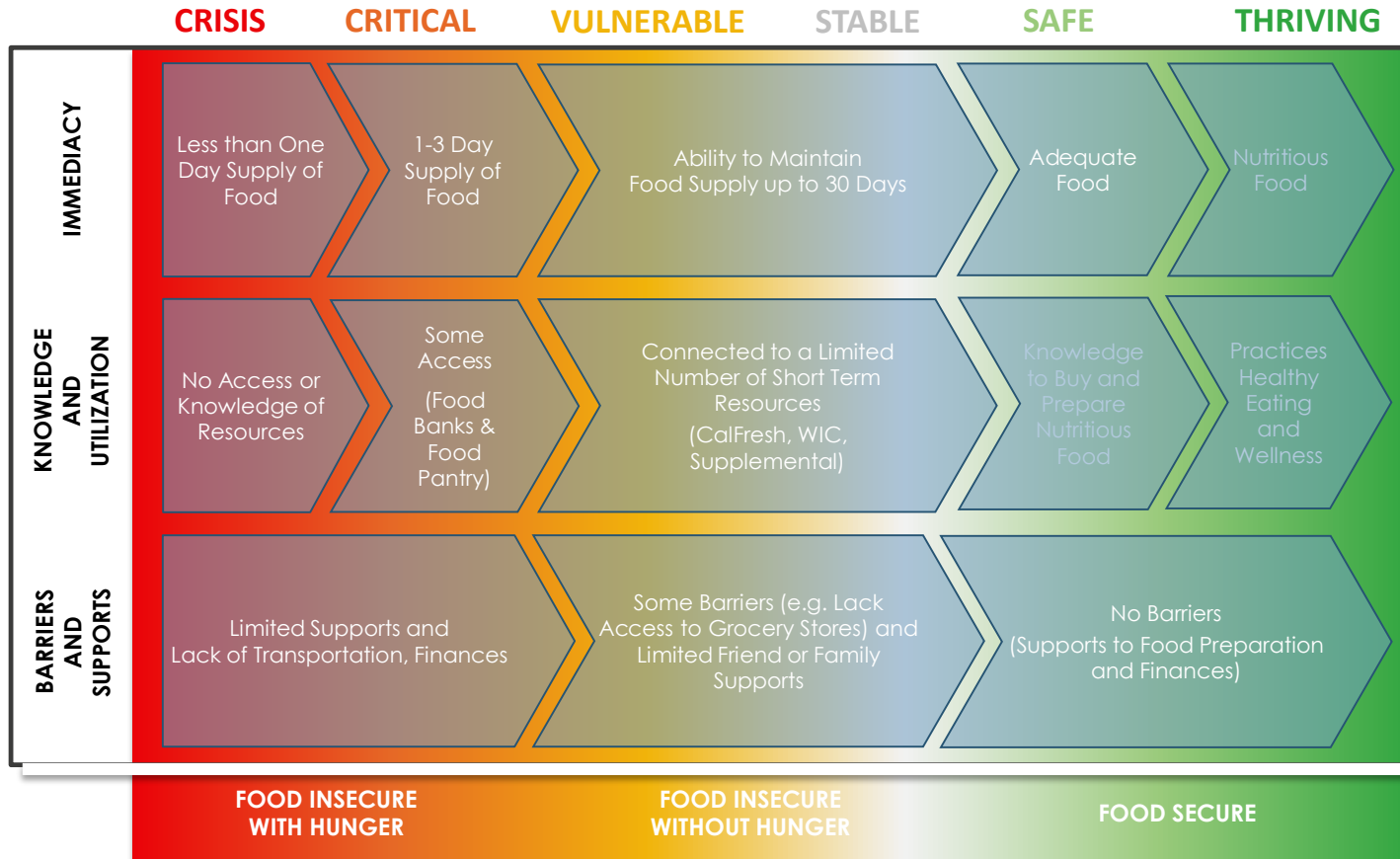
- Shared taxonomy language for referrals (AIRS)
- Dedicated resource staff
- Regular updates made to resources
- Standards to listings and requirements
- Inclusion/Exclusion Criteria
- Linked to health conditions
- Tracks resource availability and unmet needs



# FOOD & NUTRITION

Long-term and sustainable access to nutritious foods and to support services to maintain access

## CIE Risk Rating Scale



IN COLLABORATION WITH:



CASTER FAMILY CENTER FOR NONPROFIT AND PHILANTHROPIC RESEARCH



# Nutrition

## Concern about Food Supply

During the last 30 days, how often are clients concerned about their food supply? How often do they actually run out of food?

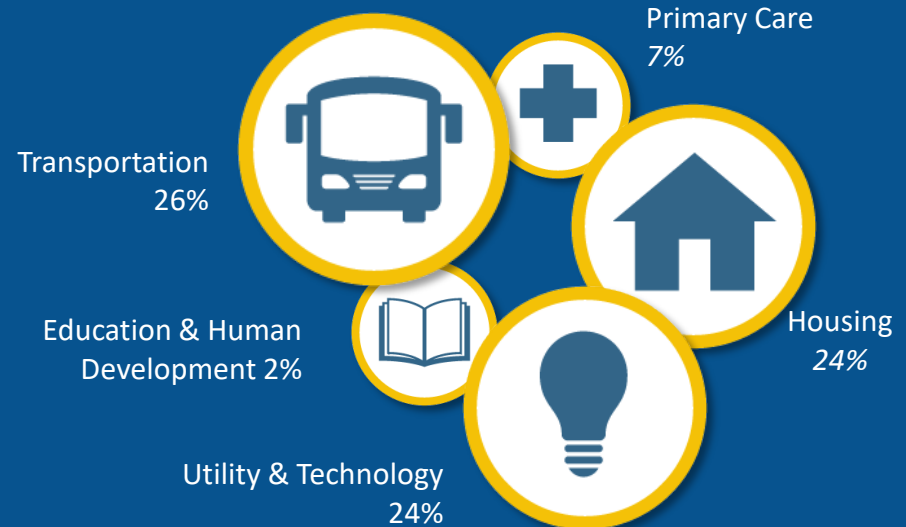
**45%** of clients are often **worried** their food supply will run out



of clients often **actually** run out of food during the month

## Decisions over Nutrition

What other basic needs do clients need to meet before they can address their nutrition needs?





# CIE Shared Record

## 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 like Twitter to other Care Team members

### Address Information

Home Street **1**  
6107 ARNO DR

Home City **1**  
SAN DIEGO

Home State/Province **1**  
California

Address Line 2 **1**

Home Zip/Postal Code **1**  
92120-4628

Home Country **1**  
United States

### Demographics

Primary Language **1**  
English

Age  
72

Gender Identity **1**  
Man

Race **1**  
Hispanic/Latino

Ethnicity **1**  
Hispanic / Latino

Marital Status **1**  
Married

### Household

Head of Household **1**  
Yes

Number in Household **1**  
4

Lives Alone **1**  
No

Number of Children in the Household **1**  
2

### Income & Benefits

Employment Status **1**  
Retired

Sources of Income **1**  
Supplemental Security Income (SSI)

Non-Cash Benefits **1**  
SNAP

Highest Level of School Completed **1**  
High School Degree

Monthly Income Amount **1**  
900

Percent of AMI  
30% or Less

Percent of FPL  
43.03%

CalFresh Renewal Date

### Military

Military Service Status **1**  
Veteran

Military Relationship **1**  
Self

Combat Status **1**  
Yes

Military Branch(es) **1**  
Army

Military Discharge Status **1**  
General under honorable conditions

Deployment Status **1**  
Yes

### Domains (4)

DOMAIN ...	RISK INDICA...	ACTIONS	REFERRALS
Transporta...	<span style="color: red;">●</span> Crisis	1	16
Nutrition	<span style="color: green;">●</span> Stable	2	10
Health Ma...	<span style="color: green;">●</span> Safe	1	4
Criminal Ju...	<span style="color: red;">●</span> Crisis	1	1



### Alerts (2)

ALERT	TOTAL # RECORDS	LAST INCIDENT	DESCRIP
EMS	8	12/16/2016 2:21 PM	This is
Jail	2	12/19/2016 1:28 PM	For disc

[View All](#)

### Care Teams (3)

CARE TE...	CASE MAN...	AGENCY	DATE ASSI...
CT-00000044	Thomas Laco...	Jewish Family ...	10/5/2018
CT-00000046	Jeri Hernande...	Southern Car...	10/5/2018
CT-00000047	Archie Munoz...	Access to Ind...	10/5/2018

[View All](#)

### Programs (2)

PROGRAM NAME	AGENCY	STATUS	UPDATED
HomeShare	Elderhelp	Enrolled	12/12/2
PMC	Father Joe's Villages	Enrolled	12/12/2

[View All](#)

# Community Information Exchange Partners



# Driving Interoperability

- Patient identification
- Consent management
- Notifications and alerts
- Data quality
- Data provenance
- PHI and PII
- Public health to primary care
- Proper presentation summary
- Closed loop referral system





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Please address follow-up questions to:

**John Ohanian**  
Chief Executive Officer  
[johanian@211sandiego.org](mailto:johanian@211sandiego.org)

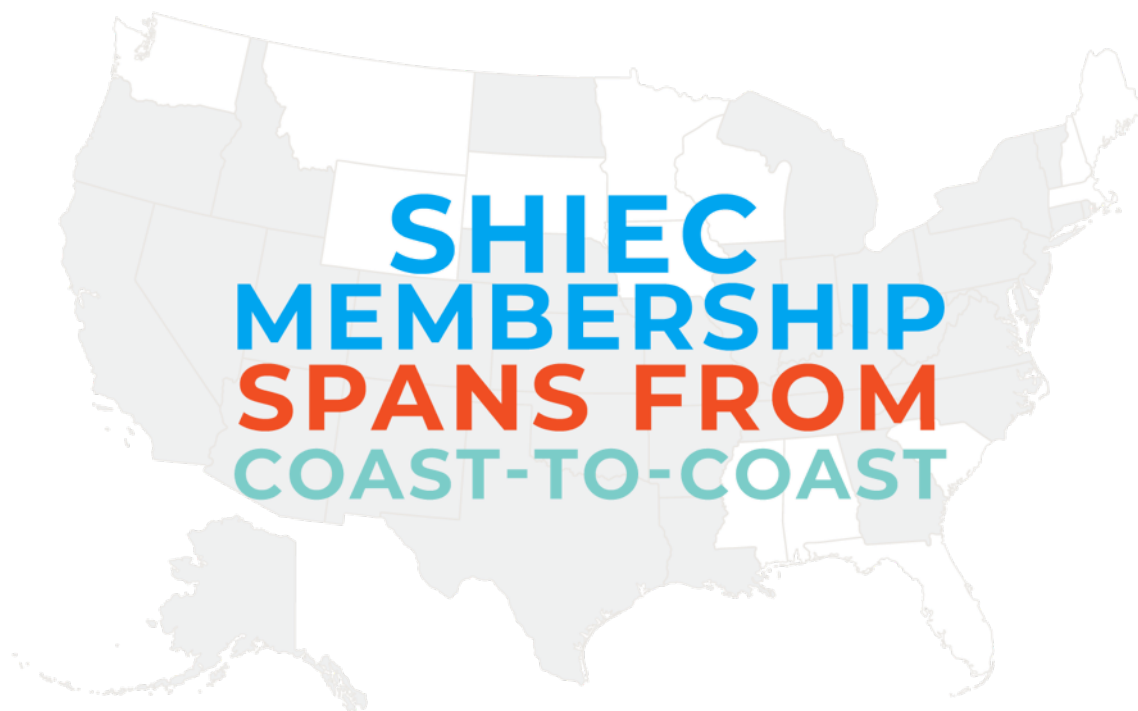


@ONC\_HealthIT



@HHSOHC





More than

**130**

Members

70+ HIE Members

60+ SB&T Members

Providing health data to more than

**75% of Americans**





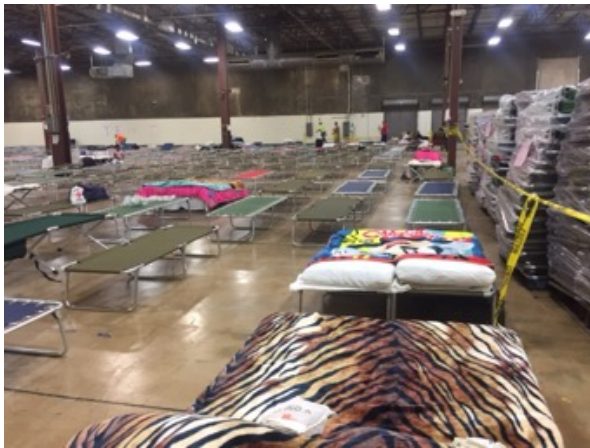


- Master patient index / patient matching services
- ADT or other alerting services
- IHE Query/Retrieve services
- Clinical data repository
- HISP / secure messaging between Providers
- Clinician Portal
- Data quality / mapping services
- Public Health Data delivery/interface to state Dept. of Health
- Results / clinical message delivery
- Population Health Management data service
- Transitions of Care services
- Provider Directory
- Referral Services
- Patient focused services



- **Georgia**—School Nurses—*immunization information to school nurses & rural counties*  
—American Heart Assoc. & World Economic Forum Heart Failure Projects—*reduce readmission and improve outcomes*
- **Louisiana**—Coroners and Prisons—*supports transitions in care*
- **Colorado**—Youth Services and Medical Clinics—*supports care coordination*
- **New York**—Discovered cancer diagnosis of a resident—*provides comprehensive records*  
—Provided access to records during ransomware attack
- **Nebraska**—PDMP—*leading HIE and PDMP partnerships: 1M+ records*
- **Indiana**—Population Health—*caring for the community across the continuum*
- **Pennsylvania**—Payers—*serves as data aggregator to calculate quality measures, supports CMS CPC+ program*
- **Kentucky**—Public Health Data—*deliver to state agencies, specialized registries*
- **Oklahoma**—Real Time Data—*text between patient and provider screens*
- **Michigan**—End of Life Care—*provide patient preferences POA, POLST, Organ Donation*
- **New Jersey**—Cross Sector Data Sharing—*partnering with community leaders*
- **Arizona**—Part 2 Data—*sharing comprehensive patient information*
- **California**—Wild Fires—*supporting thousands of displaced residents and patients*

**Texas:** Hurricane Harvey—Megashelters 30,000+ evacuees



**Carolinas, TN, VA, GA, AL, FL:** Hurricane Florence & Michael—1 M+ evacuees



**California:** Wild fires—60,000+ evacuees



Providers can Assess, Diagnose, Treat, Fill Medications  
Connect to Portals, Patients avoid unnecessary medications and tests,  
tracking dialysis patients, electricity dependent patients

This is why Patient Centered Data Home™ is so important.

**PCDH™ is a SHIEC initiative that creates a nationwide network connecting health information exchanges (HIEs).**



**Deliver patient health information across state lines and across health systems, improving the patient experience by making their health information available whenever and wherever their care occurs.**

**Based on triggering episode alerts, PCDH™ notifies providers a care event has occurred outside of the patients' "home" HIE, and confirms the availability and the specific location of the clinical data, enabling providers to initiate a simple query to access real-time information across state and regional lines and the care continuum.**



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Please address follow-up questions to:

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