Evolving CHHS Data Initiatives
[Record Reconciliation & Research Data Hub]

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What was the first ‘Record Reconciliation’?
Data Expo
August 7, 2019

What is Happening Now?

AMENDMENT TO THE AGREEMENT TO PROVIDE SERVICES FOR THE RECORDS RECONCILIATION PROJECT BETWEEN THE CALIFORNIA HEALTH AND HUMAN SERVICES AGENCY and THE DEPARTMENTS AND THE UNIVERSITY OF SOUTHERN CALIFORNIA, CHILDREN'S DATA NETWORK

The parties to the Records Reconciliation Project Agreement ("RRA"), dated February 20, 2018, agree to amend the RRA by this AMENDMENT, effective November 26, 2018. The RRA is amended as follows:

I. ADDITIONAL PARTIES TO THE RRA

Consistent with the purpose of the RRA to establish a systematic reconciliation of client records across CHHS programs, the current RRA parties, which include USC-CDN and CHHS, DDS, DHCS, CDPH, and CDSS agree to add the California Office of Statewide Health Planning and Development ("OSPHD") as an additional party to the RRA. OSHPD hereby agrees to all terms and provisions of the RRA.

USC-CDN and CHHS, DDS, DHCS, CDPH, CDSS, and OSHPD (collectively referred to as "CHHS and the Departments") agree that in the future, during term of the RRA, which ends February 15, 2021, other California departments overseen by CHHS may be added as parties to the RRA to achieve the purpose and goals of the RRA. USC-CDN and CHHS and the Departments agree that this specific term, which allows for the addition of CHHS departments as parties to the RRA, will not require the current parties to re-sign the RRA or this AMENDMENT. Only the new party will execute a Signature Page to confirm agreement with all terms and provisions of the RRA and this AMENDMENT. The Signature Page shall be provided to USC-CDN and CHHS, with courtesy copies to the other CHHS Departments who are parties to the RRA. The Signature Page(s) will be maintained by CHHS with the original RRA and this AMENDMENT.

Record Reconciliation v2

programs covered
1. DHCS: Medi-Cal
2. DHCS: FPACT
3. CDSS: Child Welfare
4. CDSS: CalWORKs
5. CDSS: CalFresh
6. CDSS: IHSS
7. DDS: Developmental Services
8. CDPH: WIC
9. CDPH: Vital Birth
10. CDPH: Vital Death
11. OSHPD: Hospitalization / ED / AS

other
1. future CHHS signatories
2. programs covered
Making Data Open and Accessible?

- New summary table that examines pairwise program participation for all geographies broken out by age, race/ethnicity and gender.

- Using this data, more detailed Multi-Program Demographic visualizations could then be produced (e.g., users could compare the racial/ethnic distributions in each CHHS program by age group; or ask more detailed questions like what is the number of Hispanic girls under age 18, with participation in each program).
A CHHS ‘Research Data Hub’ (RDH)?

ASSUMPTIONS

• ‘Person-centered’ programs require integrated data organized around people rather than programs
• Integrated data will allow CHHS to better understand the conditions in communities, the impact of current programs, and opportunities to improve the delivery of health and human services

GOALS

• Develop a fully-operational ‘research data hub’ that will: (1) advance new knowledge through data analysis and evaluation activities; (2) promote operational improvements in the coordination and delivery of person-centered health and human services; and (3) provide a model for developing integrated research data hubs.
Research Data Hub

Securely integrating data to improve the coordination and delivery of services that advance the social mobility, health, safety, and well-being of children, families, and individuals across California.

Applications for aggregated cross-departmental / cross-program data analytics (dashboard tools)

Record integration using encrypted linkage keys (no exposure of PII)

Role-based access to data for de-identified person-level / record-level analyses (controlled by Departments)

Secure platform for processing integrated CHHS Data stripped of all direct identifiers

[internal] CHHS Data Analysts

[external] University Researchers

[internal] County / Other State Agency Data Analysts

Rather than sending data ‘out’, external analysts granted access to RDH (improved security and research reproducibility)

Hosted within CHHS’ data infrastructure; used as staging area for de-identified service / analytic fields and encrypted linkage keys

Encrypted Linkage Keys generated through probabilistic linkage algorithm by USC-CDN

Analytic files constructed, defined, and managed by CHHS Departments / programs

Personaly Identifiable Data

Confidential Services Data

Source Data Systems

Record Reconciliation

Inter-Agency Data Sharing Agreement

Children’s Data Network

USC Software, Downstream/Partner


Medi-Cal #1092

Birth #300785

hY87glQk1J

CalFresh #65701

Child Welfare #78

Eligibility & Claims #1092

Prenatal Care #300785

Monthly Benefit #65701

Abuse Referrals #78

State File Server

OpenLattice

Applications for aggregated cross-departmental / cross-program data analytics (dashboard tools)
Questions? ehornste@usc.edu