



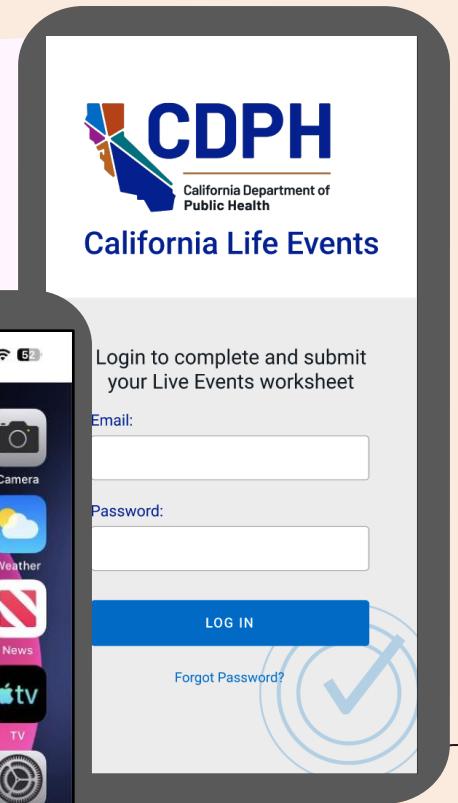
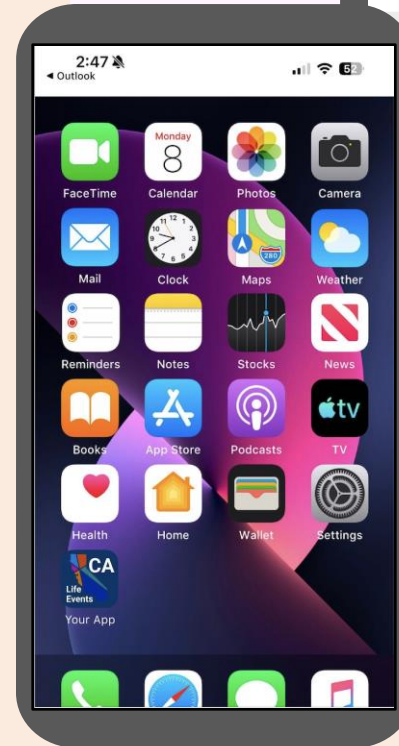
Parent mobile application implementation to pre-collect data fields for birth certificate registration

*California Integrated Vital Records System
(Cal-IVRS)*

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Agenda

- Overview
- Current Workflow
- Cal-IVRS LifeEvents Workflow
- App Overview
- Lessons Learned
- Future Roadmap



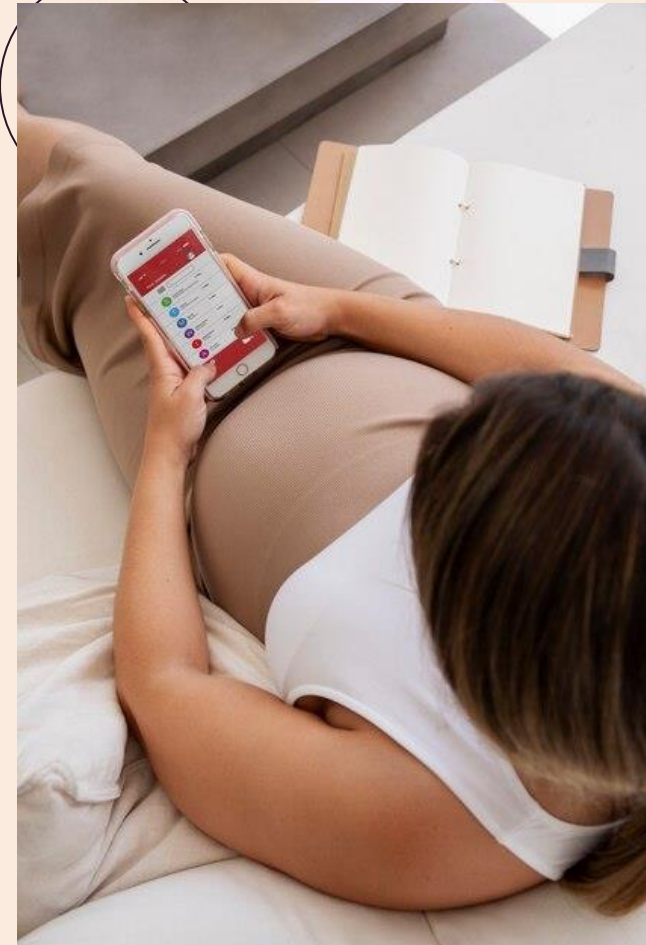


Overview

- Cal-IVRS - is California Integrated Vital Records System
- Annually CA has an estimated 420k births, all maternal and newborn data is managed by the birth clerk in the hospital using a *paper worksheet*. This paper is then manually entered into Electronic Birth Registration System (EBRS).
- This pilot project includes implementation of a parent mobile application that will allow parents to pre-complete the birth related fields prior to delivery

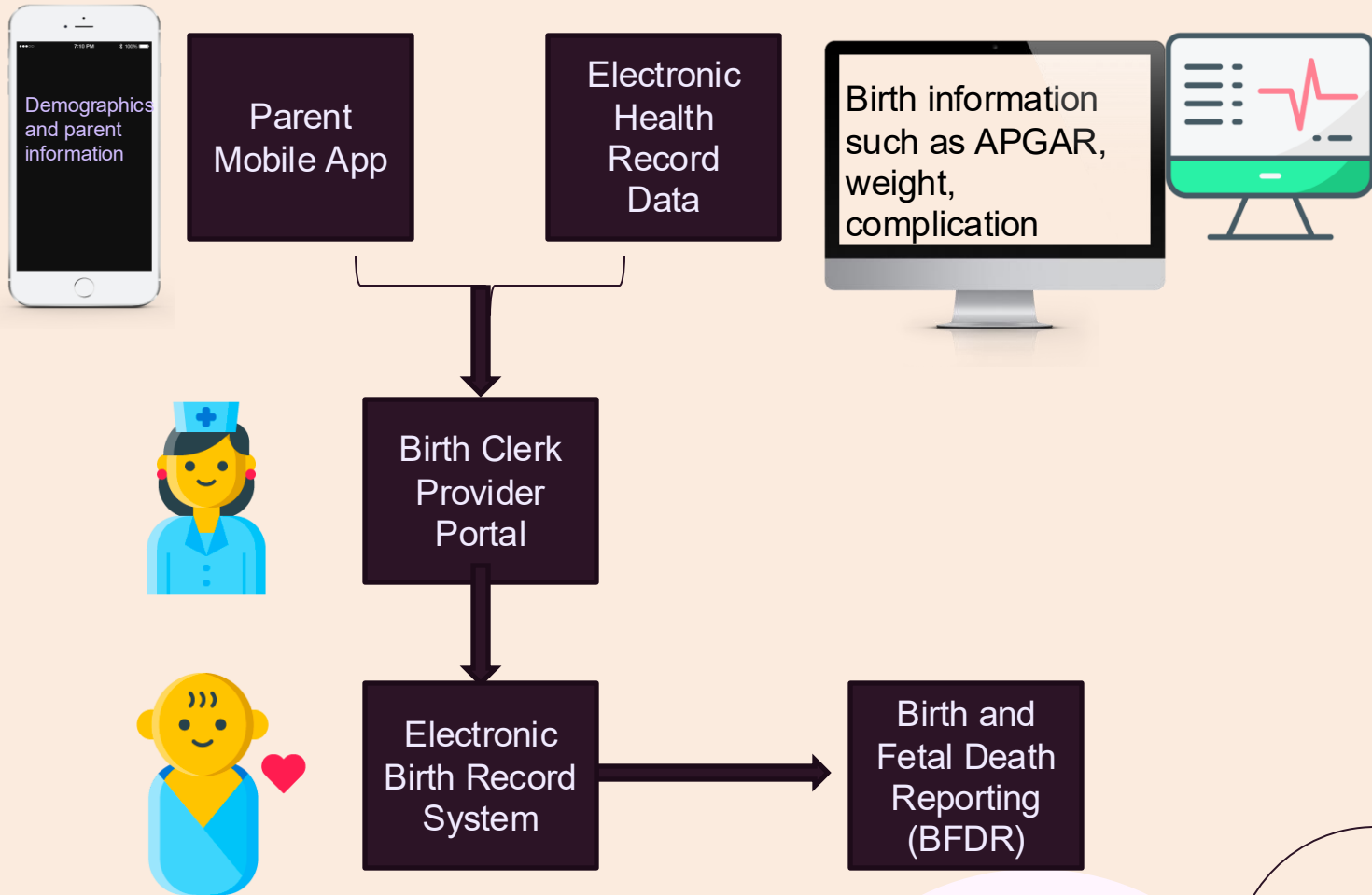
Objectives of parent mobile application :

- *Improve birthing person experience through anticipatory birth data acquisition*
- *Reduce documentation burden for birth clerk*
- *Improve data quality through streamlined EHR and EBRS data retrieval as the mobile application will minimize duplicate data entry*
- *Determine the feasibility of collaborating with a vendor of an existing patient-centric personal health record system*



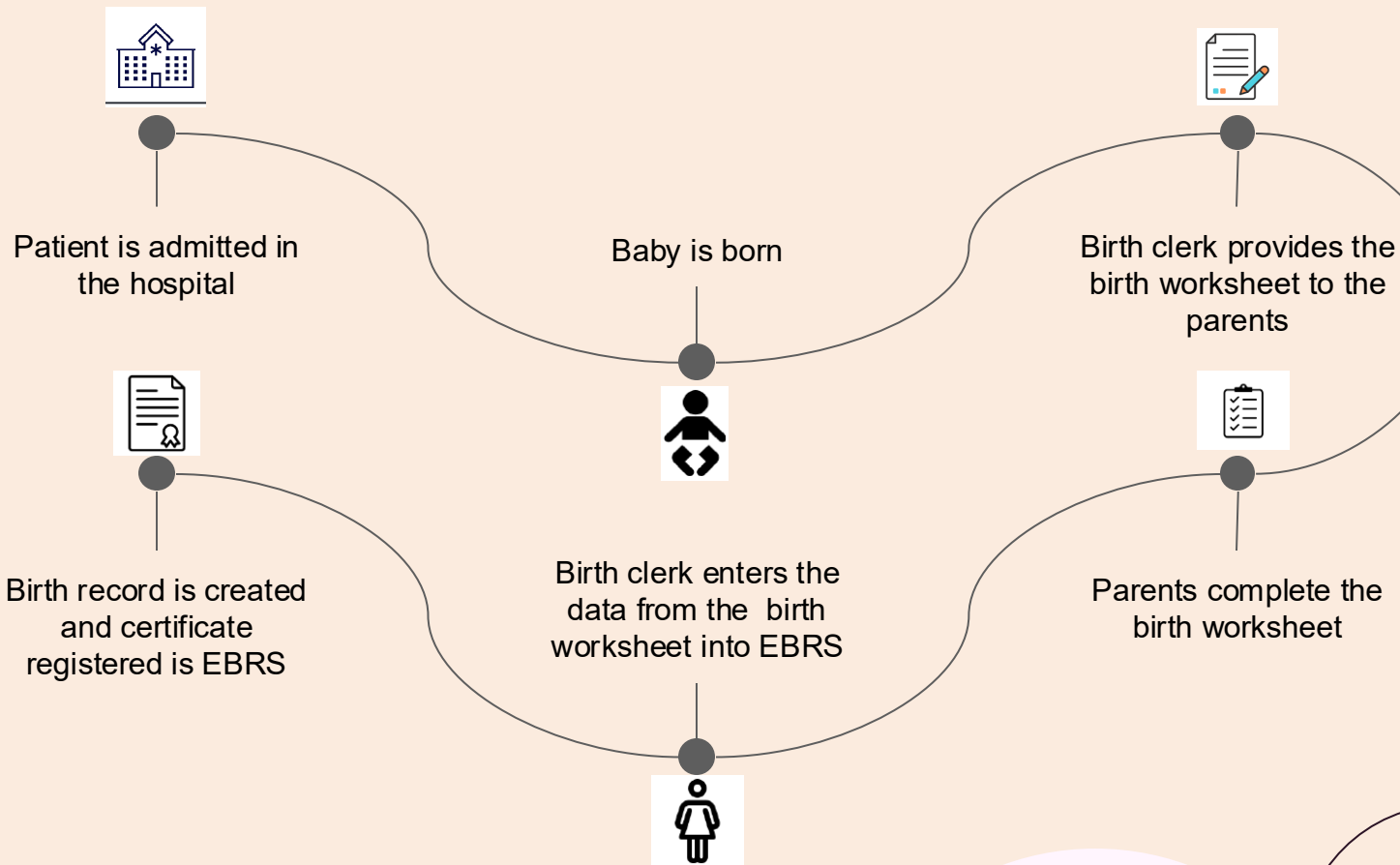


Approach to Data Integration





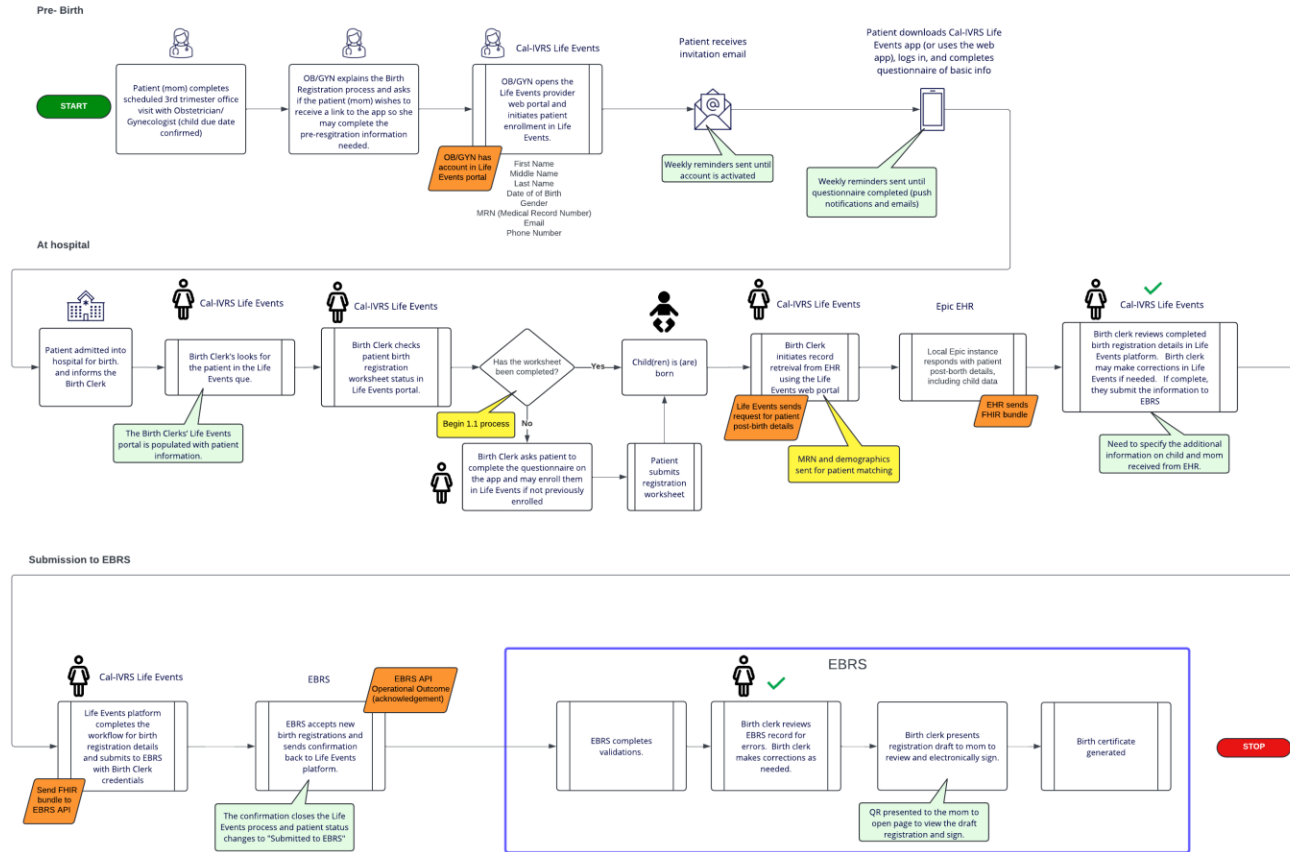
Current Workflow





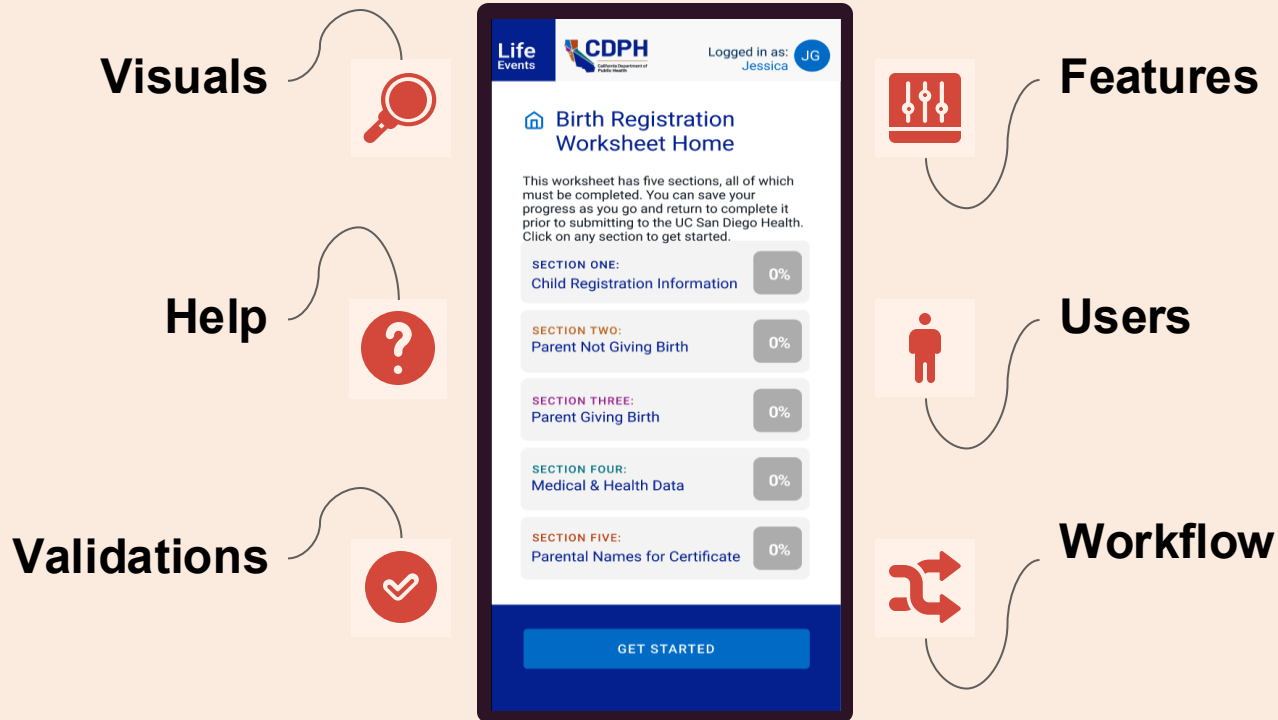
Cal-IVRS LifeEvents Workflow

Cal-IVRS Life Events - Process 1.0 - Patient Enrolled by OB/GYN





Parent Mobile App Overview





Parent Mobile App Overview

11:06

70

Life Events

CDPH

California Department of Public Health

Logged in as: Vira VD

Birth Registration Worksheet Home

This worksheet has four sections, all of which must be completed. You can save your progress as you go and return to complete it prior to submitting to the UC San Diego Health.

SECTION ONE (OPTIONAL):
Child Registration Information

SECTION TWO:
Parent Giving Birth 43%

SECTION THREE:
Parent Not Giving Birth 0%

SECTION FOUR:
Medical & Health Data

Once all four sections are finished, you'll be able to submit your Birth Registration Worksheet.

SUBMIT

Life Events

CDPH

California Department of Public Health

Logged in as: Jessica JG

SECTION ONE:

Child Registration Information

YOUR CHILD'S INFORMATION:
The information you provide below will appear on your child's official birth certificate.

1A. Child's First Name:

1B. Child's Middle Name:

1C. Child's Last Name:

SAVE & EXIT CONTINUE >

Life Events

CDPH

California Department of Public Health

Logged in as: Jessica JG

SECTION ONE:

Child Registration Information

Would you like a Social Security Number Generated Automatically for your baby?
☐ Yes ☐ No

Are the Parents Married and/or in a State Registered Partnership (SRDP), or is there a certified surrogate court order?
☐ Yes ☐ No ☐ Unknown

Has a Voluntary Declaration of Parentage (VDOP) form been completed and signed?
☐ Yes ☐ No

SAVE & EXIT CONTINUE >



Parent Mobile App Overview

12:48 82

Life Events CDPH
Logged in as: Vira VD

SECTION TWO:

Parent Giving Birth (Parent/Mother)

9A. First Name:

9B. Middle Name:

9C. Last Name (Birth):

Suffix:

Select an option

9D. Relationship to Child:

Select an option

SAVE & EXIT CONTINUE >

12:48 82

Life Events CDPH
Logged in as: Vira VD

SECTION TWO:

Parent Giving Birth (Parent/Mother)

11. Birth Date:

Enter zeros (0) for unknown month, day, or year.

33. Parent Social Security Number (SSN):

E. Are the Parents Married and/or in a State Registered Domestic Partnership (SRDP)?

Select an option

SAVE & EXIT CONTINUE >

12:52 82

Life Events CDPH
Logged in as: Vira VD

SECTION TWO:

Parent Giving Birth (Parent/Mother)

23C. What is the highest level of education completed by the Parent/Mother?

Select an option

23A. What is the usual occupation of the Parent/Mother?

23B. What is the kind of business/industry of the Parent/Mother?

SAVE & EXIT CONTINUE >



Parent Mobile App Overview

11:01

Life Events CDPH
Vermont Department of Public Health

Logged in as: Vira VD

SECTION TWO:

Parent Giving Birth (Parent/
Mother)

22. Is the Parent Giving Birth (Parent/
Mother) Hispanic, Latina, or Spanish?

☐ Yes

☐ No

☒ Unknown

☐ Withheld

SAVE & EXIT CONTINUE >

11:01

Life Events CDPH
Vermont Department of Public Health

Logged in as: Vira VD

SECTION TWO:

Parent Giving Birth (Parent/
Mother)

21. Race 1:
Up to 3 races may be selected.

White

Race 1 Description (optional):
Select an option

Would you like to add a 2nd Race?

☐ Yes

☒ No

SAVE & EXIT CONTINUE >



Parent Mobile App Overview

10:58

Life Events CDPH
Logged in as: Vira VD

SECTION FOUR:

Medical & Health Data for Parent Giving Birth (Parent/ Mother)

E. Prepregnancy Weight (lbs):

E. Height (ft):

E. Height (in):

SAVE & EXIT CONTINUE >

10:59

Life Events CDPH
Logged in as: Vira VD

SECTION FOUR:

Medical & Health Data for Parent Giving Birth (Parent/ Mother)

E. Did the Parent Giving Birth (Parent/ Mother) receive Women, Infants and Children (WIC) food while pregnant?

Select an option

E. Did the Parent Giving Birth (Parent/ Mother) smoke cigarettes during the three months prior to becoming pregnant?

Select an option

E. Did the Parent Giving Birth (Parent/ Mother) smoke cigarettes during the first three months of pregnancy?

Select an option

SAVE & EXIT CONTINUE >

10:59

Life Events CDPH
Logged in as: Vira VD

SECTION FOUR:

Medical & Health Data for Parent Giving Birth (Parent/ Mother)

25A. What was the date Last Normal Menses Began? (if exact date is unknown, enter the month and year):

MM/DD/YYYY

Enter zeros (0) for unknown month, day, or year.

25AA. What was the date of First Prenatal Care Visit? (if exact date is unknown, enter the month and year):

MM/DD/YYYY

Enter zeros (0) for unknown month, day, or year.

25B. What month during the pregnancy did Prenatal Care Begin? (e.g., 1st, 2nd, 3rd, Unknown, etc.):

Select an option


SAVE & EXIT CONTINUE >



Parent Mobile App Overview

Life Events

 California Department of Public Health

Logged in as:  Jessica

 Birth Registration Worksheet Home

This worksheet has five sections, all of which must be completed. You can save your progress as you go and return to complete it prior to submitting to the UC San Diego Health.

SECTION ONE:
Child Registration Information



SECTION TWO:
Parent Not Giving Birth



SECTION THREE:
Parent Giving Birth




SECTION FOUR:
Medical & Health Data




SECTION FIVE:
Parental Names for Certificate




 Congratulations! Please review your answers before you submit your Birth Registration Worksheet

SUBMIT

Life Events

 California Department of Public Health


Logged in as:  Jessica

Final Submission

Birth Registration Worksheet


You are about to submit your completed **Birth Registration Worksheet to UC San Diego Health** for the purpose of preparing your child's/children's birth registration with the **California Department of Public Health**.


Once you submit this worksheet the information you submit will no longer be available for you to view nor edit on this application. You will have a final opportunity to review this information after the birth of your ch


 Once you click submit, you can no longer edit or view your worksheet

SUBMIT WORKSHEET

Life Events

 California Department of Public Health

Logged in as:  Jessica



Congratulations!

Your Birth Registration Worksheet is submitted

Submitted to:
UC San Diego Health
November 8, 2024 at 9:28 am

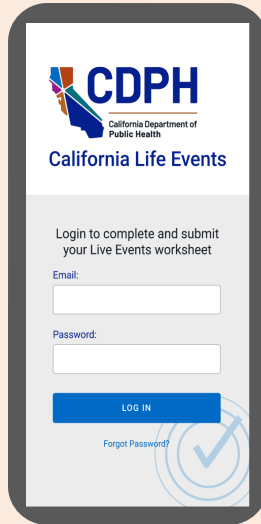
If you have any questions about your submission, please contact your healthcare organization, **UC San Diego Health**, or the **California Department of Public Health**.



Parent Mobile App Workflow Timeline

90-day pre
delivery

Birthing
parents given
access



Birth

Access in the
hospital on
tablet



135 days after
enrollment

All app data
wiped





Data and Design Considerations

- Approach to Race and Ethnicity categories
- Diverse scenarios of birthing people (gender, relationship)
- Inclusive terminology but understandable inclusive of LGBTQ+ community
- Redundant parent collection of demographics
- Usability: estimated time and progress, review of input, character limit
- Birthing parent 'maiden name'





Lesson Learned

Challenges:

- 1) Integration with EHR
- 2) Multi-lingual access was deemed out of scope for this project. The scope is limited to the English version only
- 3) Ambulatory medical home may not be the delivery hospital
- 4) Redundant demographic collection (parent vs EHR and selected parent to include)
- 5) Jurisdiction specific race and ethnicity did not match with what is typically used in the healthcare systems. The disparity in race and ethnicity data between public health systems and clinical information systems is a common challenge.





Lesson Learned

Limitations:

- 1) Pilot
- 2) Parent access assumes English, broadband access, own device, tech literacy
- 3) One jurisdiction





Future Roadmap (Next steps)

Once UAT & training is completed, we will go-live with the pilot at UCSDH facilities

We will be evaluating the following items post implementation

User experience

Gather feedback from end users, check if the support materials provided were sufficient and helpful

Process Improvements

Look for areas in the workflow that can be streamlined, incorporate suggestions

Data quality

Perform data quality checks for the data entered by the parents

Scalability

Determine if it is ready for broader implementation, ensure the solution aligns with the long-term goals





meet OUR team

Department of Biomedical Informatics (DBMI)
University of California, San Diego Health System

- Dr. Michael Hogarth (PI)
- Ravinder Atwal (CTO)
- Edwin Bean
- Angelina Cordaro

Questions?





Thanks!