

Redesigning Suicide Research with Postpartum Women During the COVID-19 Pandemic

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Background

Suicide in Postpartum Period

- Suicide is the second leading cause of death in postpartum women, accounting for about 20% of postpartum deaths
- Research is needed to better understand mechanisms underlying suicide risk during the postpartum period and into the first year of a child's life
- Feasibility is inherently challenging for research on sensitive subjects of suicidal ideation, past suicide attempts, and self-harming behaviors
- COVID-19 has magnified challenges of participant recruitment and safe data collection

Objective:

- Determine necessary changes to recruitment and data collection, following the onset of COVID-19, for a mixed methods study to examine HPA axis dysregulation as a potentially heritable phenotype of suicide that may significantly increase risk.

COVID Interruption Timeline



September '19

Suicide follow-up study funded by NIMH

November '19

Initiated recruitment and data collection

March '20

University of California, San Francisco (UCSF) shuts down all non-essential research. No in-person contact permitted due to shelter-in-place orders.

May '20

UCSF indicates research can restart under strict guidelines:

- Daily health screening (participants and researchers)
- Use of personal protective equipment
- Social distancing
- Sanitization of research equipment

UCSF encourages avoiding in-person contact when possible.

Planned Follow-up Study Methods

Completed Data Collection

- Conducted pre-pandemic
- 3 time points (3rd trimester through 12 months postpartum)
- Collected measures of maternal salivary cortisol and depression (PHQ-9 and Major Depression Disorder Scale of the PDSQ)

Follow-up Recruitment

- Recruited women who reported suicidal ideation at any timepoint in initial study
- Eligible sample: 30 out of 190 enrolled women

Original Protocol

- Conduct interview with a research team member in the woman's home
- Measures
 - Interview built around the Columbia Suicide Severity Rating Scale
 - Qualitative probes to elicit nuanced feelings and thoughts regarding suicidal ideation, plans and attempts
- Researcher also collected:
 - Additional depression measures
 - Hair specimen for cortisol analysis

Protocol Adaptations: Considered and Made

Recruitment	Biospecimen Collection	Sensitive & Confidential Interviews	Suicide Safety	Childcare
<ul style="list-style-type: none"> Repeat contacts by phone and text Offer increased cash incentives for participation Use multiple contact methods to schedule & reschedule interviews Increase flexibility for interview times Expand use of Spanish speaking research team members 	<ul style="list-style-type: none"> Teach mothers to self-collect hair specimen <ul style="list-style-type: none"> - Demonstrate over Zoom - Provide visual and written instructions electronically Provide mailing materials for participant to return hair specimens, with biohazard considerations Pick up biospecimens from participant's home 	<ul style="list-style-type: none"> Conduct interviews by Zoom Increase flexibility for interview times to maximize privacy (e.g. time when others are away from home, finding a private area) Conduct 1:1 interviews in park or other outdoor space 	<ul style="list-style-type: none"> Train clinician-interviewer (board-certified Psych Mental Health Nurse Practitioner) in tele-assessment of suicide risk Acquire address where participant is completing interview in case Mental Healthcare Crisis Team required Identify names and contact information for others in the home or nearby if needed for suicide risk Work with local police department so that they could immediately intervene if needed 	<ul style="list-style-type: none"> Increase flexibility of interview times so that other adult in home to cover childcare (if available)
<p>Table Key: Boxes in grey were considered by team but not adopted.</p>				

Protocol Adaptations: Strengths, Weaknesses and Warnings

<h3>Zoom Interviews</h3> <ul style="list-style-type: none"> + More flexible in interviewer availability <ul style="list-style-type: none"> - Not necessary to consider travel time or interviewer safety for evening interviews Some women share more easily with video vs in-person - Harder to establish rapport <ul style="list-style-type: none"> - Difficult to demonstrate active listening to reengage woman if the woman looks away - Cannot use physical proximity in therapeutic ways Privacy during interview: others/children in home ! Need to ensure interview is HIPAA-compliant <ul style="list-style-type: none"> - UCSF uses HIPAA compliant Zoom 	<h3>Children in Home</h3> <ul style="list-style-type: none"> + Children less of a distraction to mother and interviewer than when interview is in person <ul style="list-style-type: none"> - Decreased interruptions during interview - Unable to provide grant-supported childcare for participants during interview due to social distancing Increased stress of pandemic appears clinically significant for mothers <ul style="list-style-type: none"> - Participants discussed COVID related stressors - More likely to ask for the mental health resource list than before pandemic 	<h3>Hair Samples</h3> <ul style="list-style-type: none"> + Able to continue collecting hair specimens at approximate time of interview (representing past 3 months of cortisol) - Concerned about validity of time period reflected in sample <ul style="list-style-type: none"> - Unable to verify how close to scalp the hair was cut ! Think about where (and how) to have participants send the samples after collection <ul style="list-style-type: none"> - This was especially challenging early in COVID when team could not access campus at all and labs were not yet open
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