



Our goals are to develop **a precision-based approach** to care for NIHF, and ultimately, **targeted treatments** specific to each underlying cause of NIHF.



For more information
or to refer a patient,
please contact us:

UCSF Fetal Treatment Center

HyDROPS Team

1-800-RX-FETUS
(1-800-793-3887)

hydrops@ucsf.edu

Teresa Sparks, MD, MAS
Mary Norton, MD
Billie Lianoglou, LCGC
Tippi MacKenzie, MD
Stephan Sanders, MD, PhD
Renata Gallagher, MD

HyDROPS

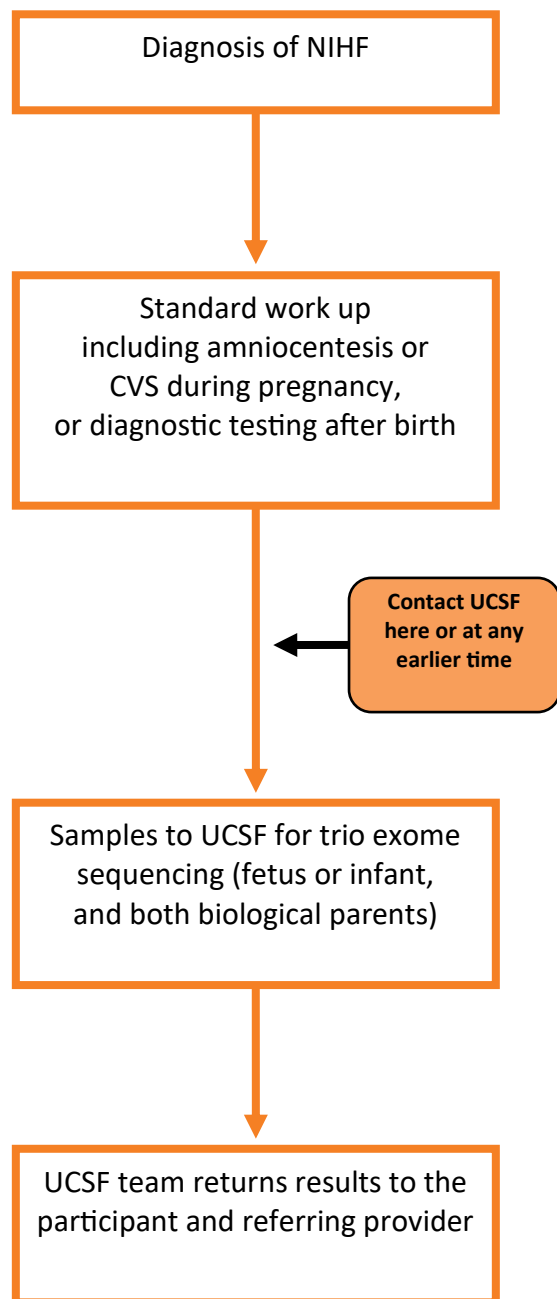
- Hydrops:
- Diagnosing &
- Redefining
- Outcomes with
- Precision
- Study



Our research contributes novel information about genetic disorders that cause Non-Immune Hydrops Fetalis.

This enables more accurate **counseling, individualized antenatal care, and anticipation of neonatal needs.**

STUDY OVERVIEW



STUDY DESIGN

Enrollment

The UCSF team can consent and enroll patients locally at UCSF or remotely via video or telephone.

Inclusion Criteria

Living or demised fetus or infant with non-diagnostic karyotype and/or microarray, and one or more of the following:

- Non-immune hydrops fetalis
- Single abnormal fetal fluid compartment (such as isolated ascites)
- Cystic hygroma
- Nuchal translucency of ≥ 3.5 mm

Exclusion Criteria (any)

- Alloimmunization
- Twin-twin transfusion syndrome

Approach to Testing

- Trio exome sequencing on fetus/infant and (ideally) both biological parents
- If patient declines diagnostic testing during pregnancy, infant or other tissue sample may be sent to UCSF
- Exome sequencing at no cost to families
- Multidisciplinary panel review and classification of genetic variants
- Turnaround time is 2 - 4 weeks for ongoing pregnancies and live births
- Our CLIA-approved lab issues a formal report to the patient and ordering provider

HOW TO PARTICIPATE

Clinical Data

Our team will request a limited amount of clinical information, such as results of karyotype and/or microarray and ultrasound findings.

How to Refer a Patient

hydrops@ucsf.edu or 1-800-RX-FETUS

See insert for recommended work up of NIHF.

Send Us a Specimen

- Our team can assist with sample transfer
- Saliva kits shipped directly to biological parents with pre-paid return to UCSF
- Only one sample type needed for the fetus/infant as well as each biological parent

Fetal: Cultured amniocytes, chorionic villi, cord blood, products of conception, extracted DNA, or other tissue

Neonatal: Blood, buccal/saliva, skin, or other tissue

Parental: Blood or saliva

