No notable theme

- Progress / milestone communication
- Elicit program feedback
- Local presentations outreach
- Recruitment and outreach
- Continuing review

Project management

- Participant webpages management
- Webpages consent
- Manual of operations
- Applicant communications
- External data sharing oversight
- Site ops updates
- PEER group engagement
- UDN IRB document management
- Network protocols
- Network functional need management
- Research evaluation attendance
- UDN central IRB liaison
- Site budget / billing management
- UDN technology support

Leadership

- GC student thesis advisor
- Grant writing
- Team management: students
- Bioinformatics tool development
- Team management: hiring
- Research substudy management
- Team management: research assistants

Study coordination

- Referring decision communication
- Medical record collection
- Coordinate application review
- Team management: study coordinators
- Coordinating center liaison
- Participant webpage review
- Application assistance
- Team meeting leadership
- Research evaluation coordination
- Financial resource access
- Family member data entry
- Application data entry
- Clinical data curation / entry
- Consent scheduling
- Participant point person
- Research evaluation provider prep
- Medical records summarization
- Applicant decision communication
- Pre-UDN genetic counseling

Internal & external liaising

- Local interest group outreach
- Manuscript preparation
- UDN workgroups / subcommittees
- Research substudy design
- Shadowing / informational meetings
- Support resource connection
- Application decision making
- National conference booth

No notable theme

- Non-genetic result return
- Referring diagnosis communication
- Genetic diagnosis data entry
- Research evaluation summary letter
- Phenotips feedback updates
- Research evaluation records entry
- Research evaluation visit
- Research evaluation planning
- Local provider outreach

Genetic counseling competencies

- Bioinformatics collaboration
- Sequencing report review
- Psychosocial assessment / goals
- Research genetics note
- Meeting slide preparation
- Team communication genetic results
- Genetic testing strategy
- Genetic result counseling
- Anticipatory guidance
- Medical record review
- Study consent
- Family letters
- Psychosocial counseling diagnosis
- External researcher communications
- Participant genetics point person
- Casematching submissions
- Case curation management
- Construct pedigrees
- Exome/Genome curation
- Workflow improvements
- External provider communications
- Grand rounds presentations
- National conference presentations
- Team communication curation findings
- GC student supervision

Genomic testing coordination

- Multi-omics data curation
- Sequencing data reanalysis
- Elicit participant preferences
- Multi-omics data management
- Research request data entry
- Research core communication
- Sanger validation management
- Genetic testing coordination
- Sample transfer coordination

Figure S1: Clustering by Role

Hierarchical clustering of genetic counselor roles. Roles often performed by the same genetic counselor are grouped. Colored boxes delineate individual clusters (k=8). Labels corresponding to each branch are abbreviated versions of the corresponding role (n=96); please see roles list table (in supplemental materials) for key. Themes identified are labeled on the right, color-coded by their relevant cluster (n=6), or colored in grey if no notable theme was identified (n=2).