

Center on Human Development and Disability  
University of Washington

University Center for Excellence in Developmental Disabilities

# Clinical Services Annual Report 2019



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# Introduction

The Center on Human Development and Disability (CHDD) is one of the nation’s largest and most comprehensive interdisciplinary service, research, and training centers focusing on children and adults at risk for or who have established developmental disabilities. Each year, hundreds of University of Washington faculty and staff members as well as numerous doctoral and post-doctoral students make important contributions to the lives of people with developmental disabilities and their families. This is accomplished through a comprehensive array of research, clinical services, training, community outreach, and dissemination activities.

This report presents information about clinical services at the University Center for Excellence in Developmental Disabilities (UCEDD). The UCEDD is a major program of the Center on Human Development and Disability and has been in existence since 1963. It is part of a nationwide network of 67 UCEDDs located in every state and territory of the United States.

The clinical services information included in this report describes the clients served and services provided between January and December of 2018 at thirteen UCEDD clinical service programs.

The UCEDD clinical service programs were established to meet the needs of individuals with developmental disabilities, their caregivers and families. The clinics:

- Provide comprehensive diagnostic, assessment, and treatment services to individuals with or at risk of developing a developmental disability
- Develop innovative and model practices by conducting state-of-the art research and evaluation
- Build capacity in the community by serving as a vehicle for training professionals to provide interdisciplinary services

Each of the clinics is embedded in the eight UCEDD programs in the organizational diagram below.



This report addresses audiences who are familiar with the developmental disabilities field and CHDD and are interested in gaining a better understanding of UCEDD clinical service programs.

# Executive Summary

This report presents information about clinical services at the University Center for Excellence in Developmental Disabilities (UCEDD). The University of Washington UCEDD is a part of the Center on Human Development and Disability and has been in existence since 1963. UCEDD clinical service programs meet the needs of individuals with developmental disabilities, their caregivers, and families through comprehensive, state-of-the-art diagnostic and treatment services.

Data were compiled and summarized to describe the clinical services offered to our community during 2018. The thirteen clinical service programs included in this report are listed below.

## UCEDD Clinical Service Programs

- Autism Clinic
- Biochemical Genetics Clinic
- Cardiac Neurodevelopmental Clinic
- Child Development Clinic
- Down Syndrome Specialty Clinic
- Experimental Education Unit Classes
- Fetal Alcohol Spectrum Diagnostic & Prevention Network Clinic
- Hypothyroidism Clinic
- Infant Development Follow-Up Clinic
- Neurogenetics Clinic
- Pediatric Audiology Clinic
- PKU Clinic
- University of Washington Employment Program

## Summary of 2018 Data

During 2018, thirteen clinical service programs served a total of 2,645 clients, 46% of whom were five years of age or younger. The majority (64%) of clients were diagnosed as having one or more established disability, while 36% were identified as being at risk of developing a developmental disability.

Clients received services from clinicians and program staff representing fourteen unique disciplines. The disciplines that provided services most frequently were psychology, speech language pathology, and pediatrics. For all visits to clinics, 83% were for the purpose of treatment and/or intervention.

# Who did we serve in 2018?

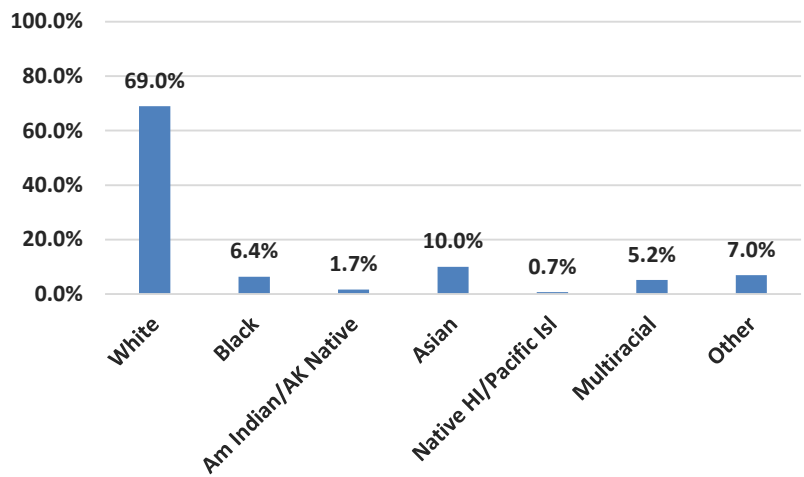
Of the 2,645 clients served in 2018....

- 57% of clients were male
- 69% who reported race were White
- 97% came from Washington State
- 75% of those from Washington State were from King County
- 65% of clients had at least one of their biological parents as their primary caregiver
- 64% of clients were identified as having an established disability

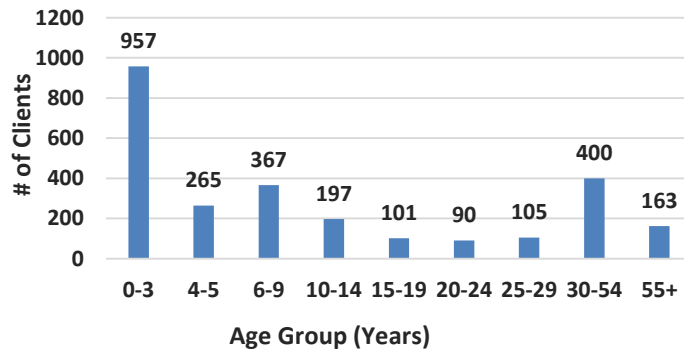
**Gender of Clients -2018**



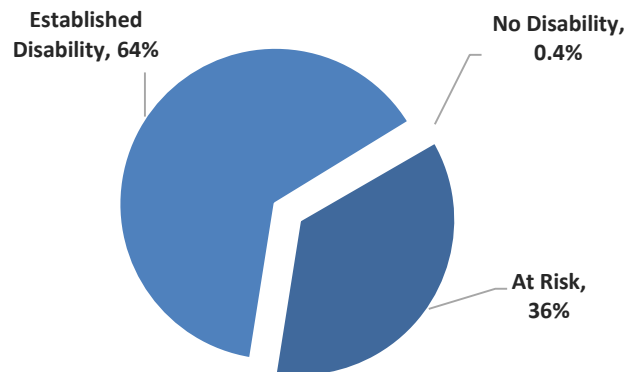
**Race of Clients - 2018**



**Clients by Age Group - 2018**



**Disability Status of Clients -2018**

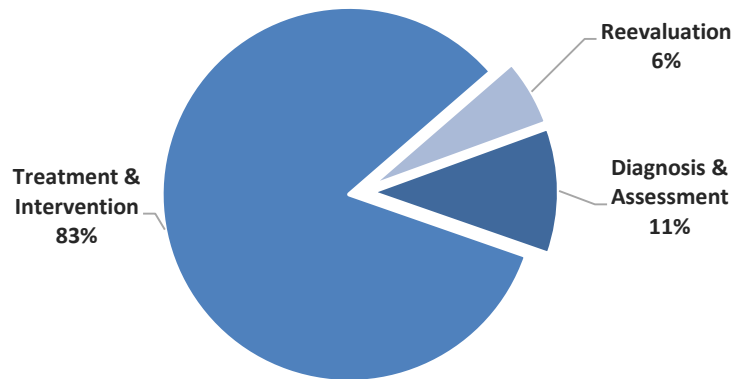


## What services were provided?

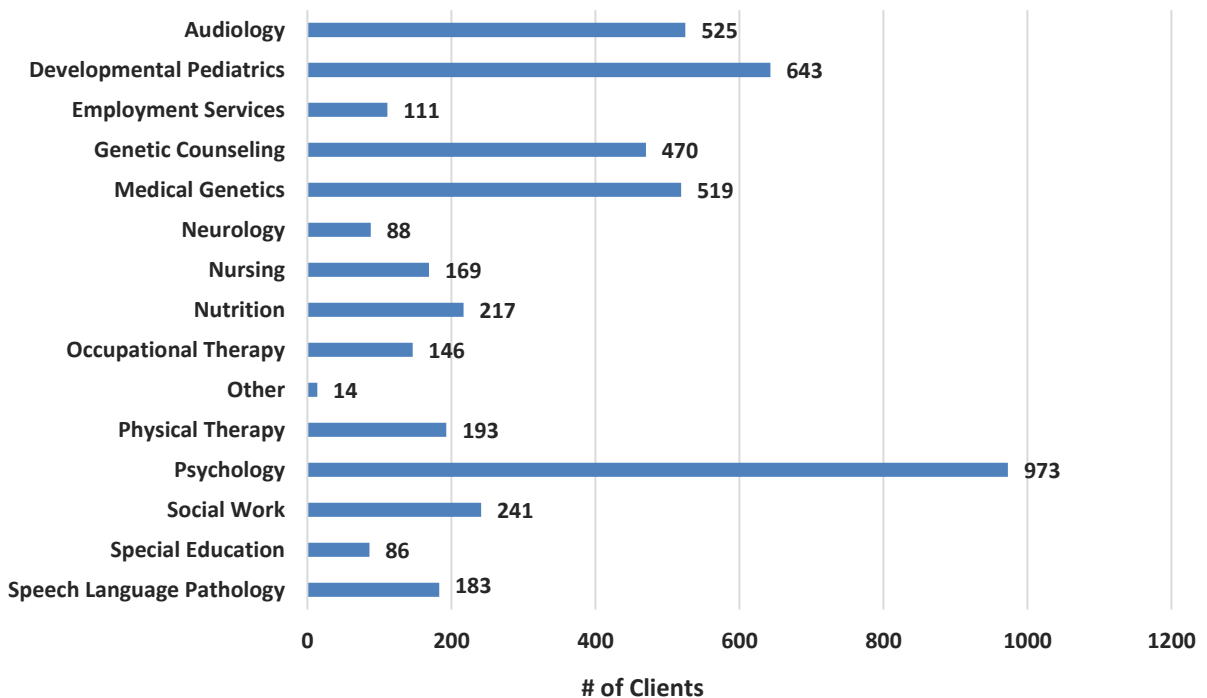
Most clients visited a UCEDD clinic multiple times throughout the year, for a total of 17,826 client visits. When a client visited a clinic, they were served by between one and six clinicians, representing unique disciplines. In 2018, clinician-client interactions totaled 21,128. These 21,128 clinician-client interactions involved clinicians that represented 14 unique disciplines.

- Treatment and intervention services were provided at 83% of all visits.

**Visits by Purpose of Service - 2018**



**Unique Clients Served by Discipline - 2018**



- The disciplines that served the highest number of unique clients were psychology and developmental pediatrics.

# Clinical Services *2019* Annual Report

## Clinical Services

### Background

CHDD operates clinical service programs that serve individuals, primarily children, with or at risk for developmental, learning, and behavioral problems. These programs provide comprehensive and integrated services mainly through the use of interdisciplinary teams of professionals representing at least fourteen disciplines. A wide range of diagnostic, assessment and intervention clinical services are provided.

The majority of CHDD clinical service programs were established in the 1960s and 1970s along with the construction of CHDD's four buildings and development of foundational training, community outreach, and research programs. The Fetal Alcohol Spectrum Disorder Clinic was established in 1993, the Autism Clinic in 2000, the Neurogenetics Clinic in 2006. Over the course of 2016-2018, the Cardiac Neurodevelopmental Clinic and Down Syndrome Specialty Clinic were established and are now included in this report.

### Disciplines Represented:

- Audiology
- Developmental Pediatrics
- Employment Services
- Genetics Counseling
- Medical Genetics
- Neurology
- Nursing
- Nutrition
- Occupational Therapy
- Physical Therapy
- Psychology
- Social Work
- Special Education
- Speech and Language Pathology
- Other

## Clinical Service Programs

This report summarizes clinical services data from thirteen clinical service programs. The clinic profiles below include a brief description of services provided and the number of clients served in 2018.

|  |
|--|
| <p><b>Autism Clinic Served: 593</b> ▶ Provides state-of-the-art comprehensive and coordinated clinical services, with continuity of care from infancy to adolescence. Services include diagnostic assessments, medical evaluations, educational assessments, school consultation, social skills groups, medication consultation, and a variety of therapies. These services are provided at two clinic locations, CHDD and UW Tacoma.</p>  |
| <p><b>Biochemical Genetics Clinic Served: 140</b> ▶ Provides diagnosis, medical nutrition therapy, genetic counseling, and long-term management to infants, children, adolescents and adults with metabolic disorders. Clinics are conducted by an interdisciplinary team that includes a pediatric geneticist, metabolic nutritionist, genetic counselor, and psychologist.</p>   |
| <p><b>Cardiac Neurodevelopmental Clinic Served: 64</b> ▶ Evaluates and treats babies and children with complex congenital heart defects who had heart surgery before their first birthday. Provides close follow-up during their first 5 years of life.</p>  |
| <p><b>Child Development Clinic Served: 129</b> ▶ Provides diagnosis, assessment and management plans for children from birth to adolescence with or at risk for neurodevelopmental disabilities. Assists families and referring professionals in implementing an interdisciplinary team's recommendations and accessing services in the community.</p>   |
| <p><b>Down Syndrome Specialty Clinic Served: 16</b> ▶ Provides formal developmental assessments, consultation for behavioral concerns, and assessment for common medical problems that can contribute to behavior or development concerns. Collaborates with schools and early intervention programs to help provide the best environment for success. In addition, assess for the co-existence of other diagnoses such as ADHD or Autism.</p>   |
| <p><b>Experimental Education Unit Classes Served: 86</b> ▶ Provides inclusive interdisciplinary education classes and services to children, ranging from birth to 7 years of age. EEU classes include the Infant-Toddler and Kindergarten programs, both emphasize the development of cognitive, social, and motor skills that enable children to successfully transition to regular classrooms the following year.</p>  |
| <p><b>Fetal Alcohol Spectrum Diagnostic &amp; Prevention Network Clinic Served: 89</b> ▶ Provides diagnoses of fetal alcohol spectrum disorders (FASD) and makes referrals for services to prevent secondary disabilities for individuals with FASD. Serves clients of all ages who have been prenatally exposed to alcohol and have concerns about their learning or behavior. Refers birth mothers of children with FASD to agencies that help them reduce the risk of alcohol exposure in subsequent pregnancies.</p> |



**Hypothyroidism Clinic** Served: 34 ▶ Provides developmental follow-up for children who have been identified through the State of Washington's newborn screening program and diagnosed with congenital hypothyroidism. Children receive periodic developmental assessments to evaluate developmental progress and the need for intervention services.

**Infant Development Follow-Up Clinic** Served: 516 ▶ Provides developmental follow-up of children from birth to age eight who are designated as high risk due to prematurity and/or low birth weight or prenatal exposure to drugs. Provides early identification and referral for early intervention for neurodevelopmental and neurobehavioral problems.

**Neurogenetics Clinic** Served: 480 ▶ Provides evaluation, diagnosis, genetic counseling, and long-term management for patients and families with a wide variety of genetic disorders. The clinic includes Pediatric Neurogenetics and Autism Genetic components.

**Pediatric Audiology Clinic** Served: 270 ▶ Provides behavioral hearing assessment of infants and children, leading to a recommendation of hearing aids and hearing aid fittings. Provides counseling for families of newly identified hearing impaired infants and children, to assist families in developing an initial management plan.

**Phenylketonuria (PKU) Clinic** Served: 117 ▶ Provides diagnosis, assessment, and consultation for ongoing dietary management and health supervision, as well as evaluation of treatment outcomes to all children with PKU and their families. Provides reproductive guidance to young women with PKU to help prevent unintended pregnancies and to make sure that when pregnancy does occur, steps are taken to prevent developmental disabilities in the baby.

**UW Employment Program** Served: 111 ▶ Provides a wide variety of community-based services for individuals who have developmental or other disabilities and are looking for work. Services include functional assessments on actual work sites, job development, and matching, on-the-job training, and long-term follow up.

# Client Demographics

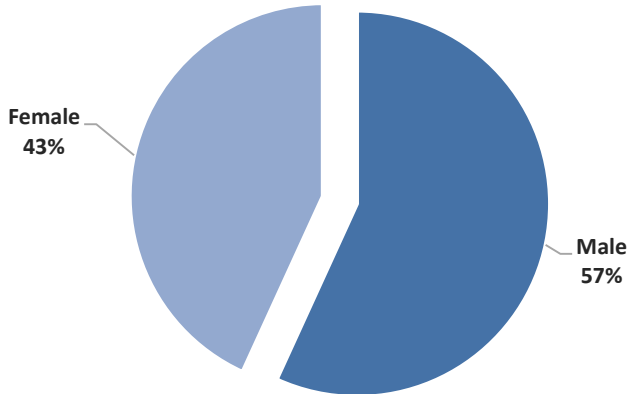
A total of 2,645 clients were served at thirteen clinical service programs between January 1<sup>st</sup> and December 31<sup>st</sup> of 2018.

## Gender

57% of clients served in 2018 were male and 43% female.

|        | <i>Count</i> |
|--------|--------------|
| Male   | 1503         |
| Female | 1142         |

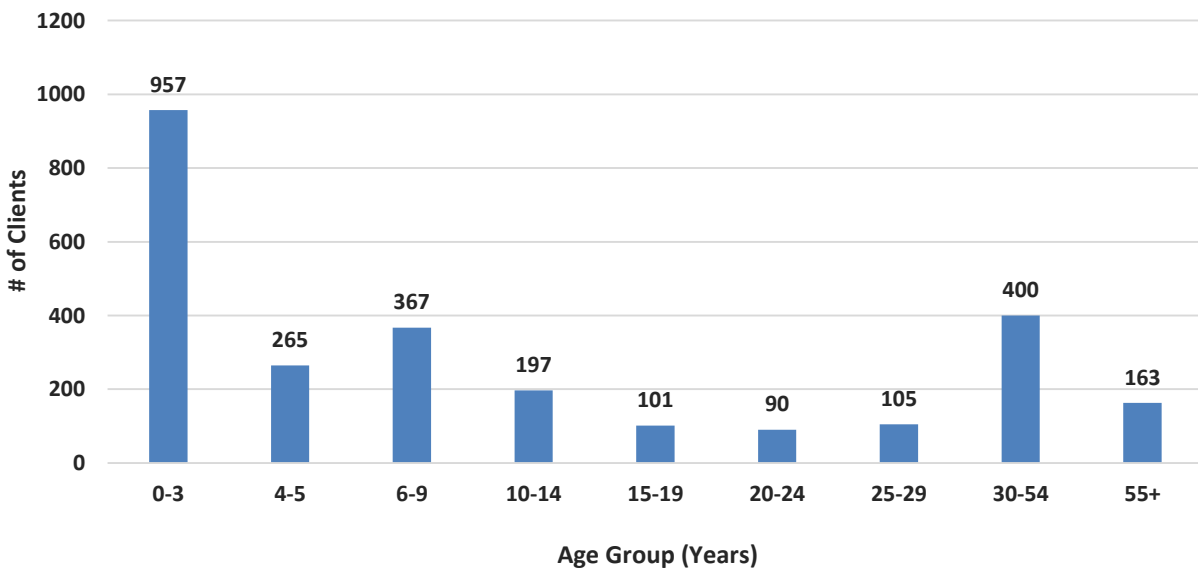
Gender of Clients -2018



## Age

The youngest client served was less than 2 months old and the oldest client was 91 years old. Approximately 46% of clients were 5 years of age or younger.

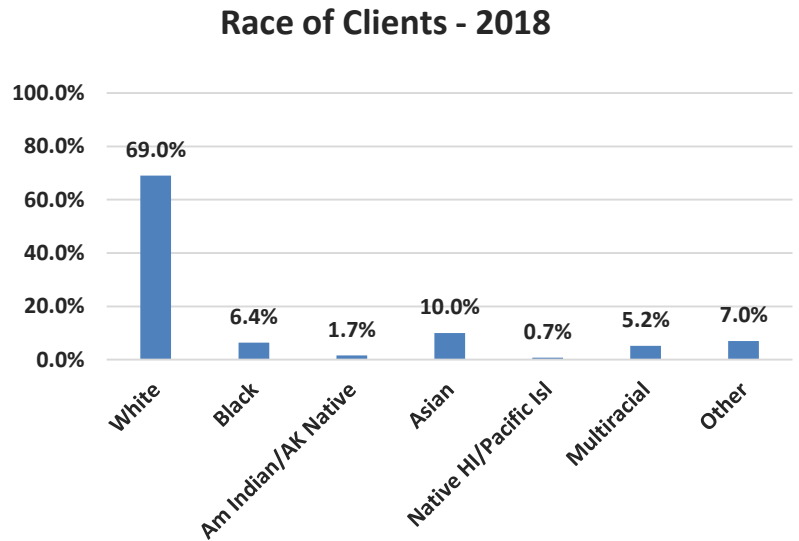
Clients by Age Group - 2018



## Race

From the data available, the largest group served was White (N=1,170), and the next largest group was Asian (N=170). Thirty-five percent (35%) of clients served in 2018 did not indicate race.

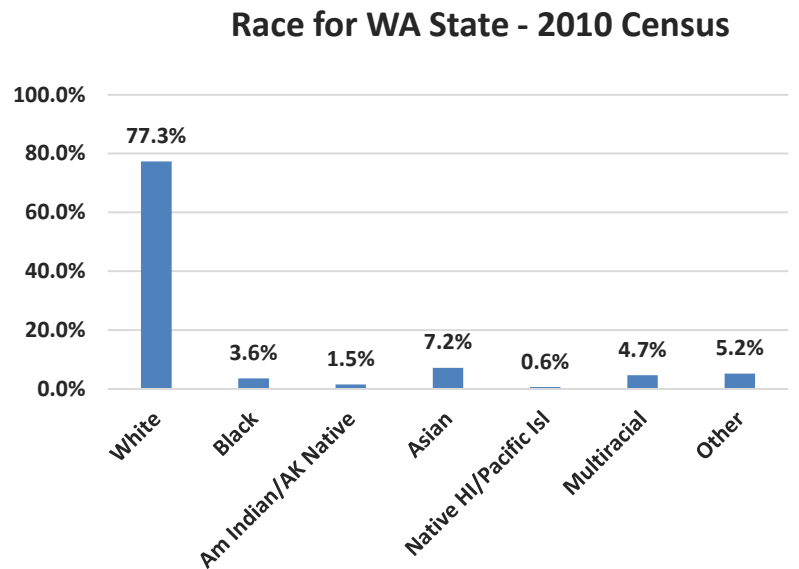
|                        | <i>Count</i> |
|------------------------|--------------|
| White                  | 1,170        |
| Black                  | 108          |
| Am Indian/AK Native    | 28           |
| Asian                  | 170          |
| Native HI/Pacific Isl. | 12           |
| Multiracial            | 88           |
| Other                  | 119          |
| Subtotal               | 1,695        |
| Did Not Indicate       | 950          |



## Race Data for Washington State

Race data for the total population of Washington State, based on the 2010 Census, is similar to the race make-up of the client population served by UCEDD clinical service programs.

|                        | <i>Percent</i> |
|------------------------|----------------|
| White                  | 77.3           |
| Black                  | 3.6            |
| Am Indian/AK Native    | 1.5            |
| Asian                  | 7.2            |
| Native HI/Pacific Isl. | 0.6            |
| Multiracial            | 4.7            |
| Other                  | 5.2            |



## Home Locations

All clients were from the United States in 2018 and 97% of clients lived in Washington State. The following tables and map display the distribution of clients that came from U.S. States and Washington State counties.

### Clients from U.S. States

| State | Count |
|-------|-------|
| AK    | 11    |
| AZ    | 3     |
| CA    | 9     |
| FL    | 1     |
| HI    | 1     |
| ID    | 19    |
| MO    | 1     |
| MT    | 1     |
| NC    | 1     |
| OR    | 10    |
| PA    | 2     |
| SD    | 1     |
| TX    | 1     |
| UT    | 1     |
| WA    | 2583  |

### Clients from WA State Counties

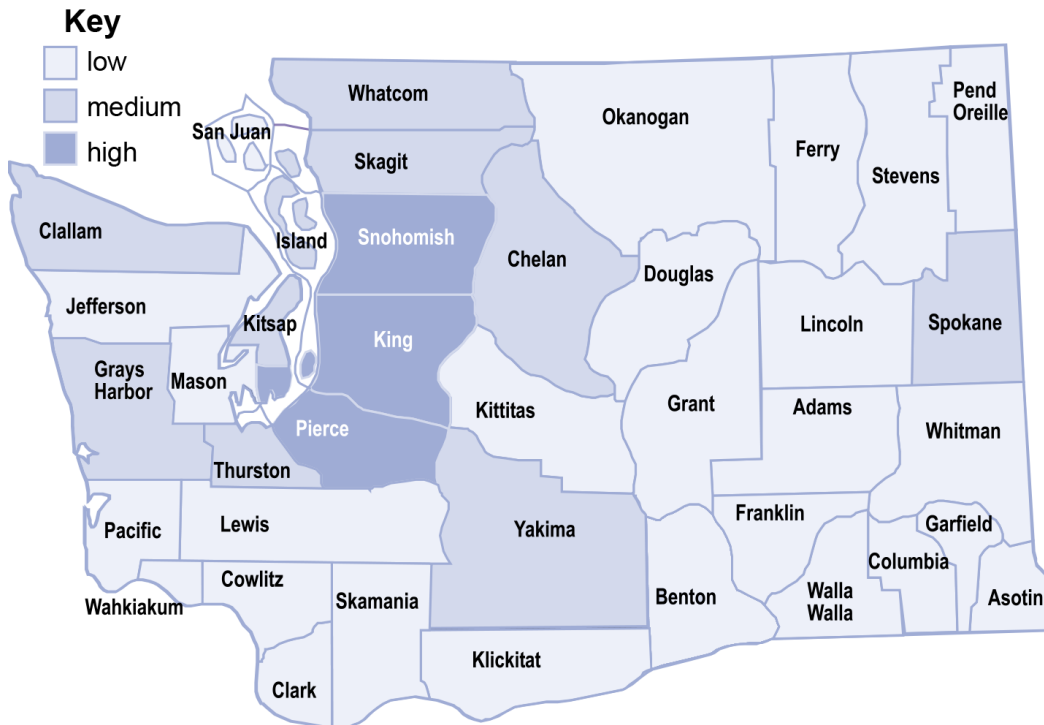
Clients came from 28 counties across Washington. The majority of clients came from King, Snohomish, and Pierce counties.

The map below displays which counties clients came from within the state of Washington. Different colors correspond with the number of clients that came from each WA State county during 2018.

- Low = Fewer than 10 clients
- Medium = Between 10-99 clients
- High = More than 100 clients

### Top 10 counties

| County    | Count |
|-----------|-------|
| King      | 1943  |
| Snohomish | 256   |
| Pierce    | 103   |
| Whatcom   | 66    |
| Kitsap    | 49    |
| Skagit    | 42    |
| Yakima    | 38    |
| Thurston  | 36    |
| Chelan    | 20    |
| Clallam   | 22    |



## Caregivers

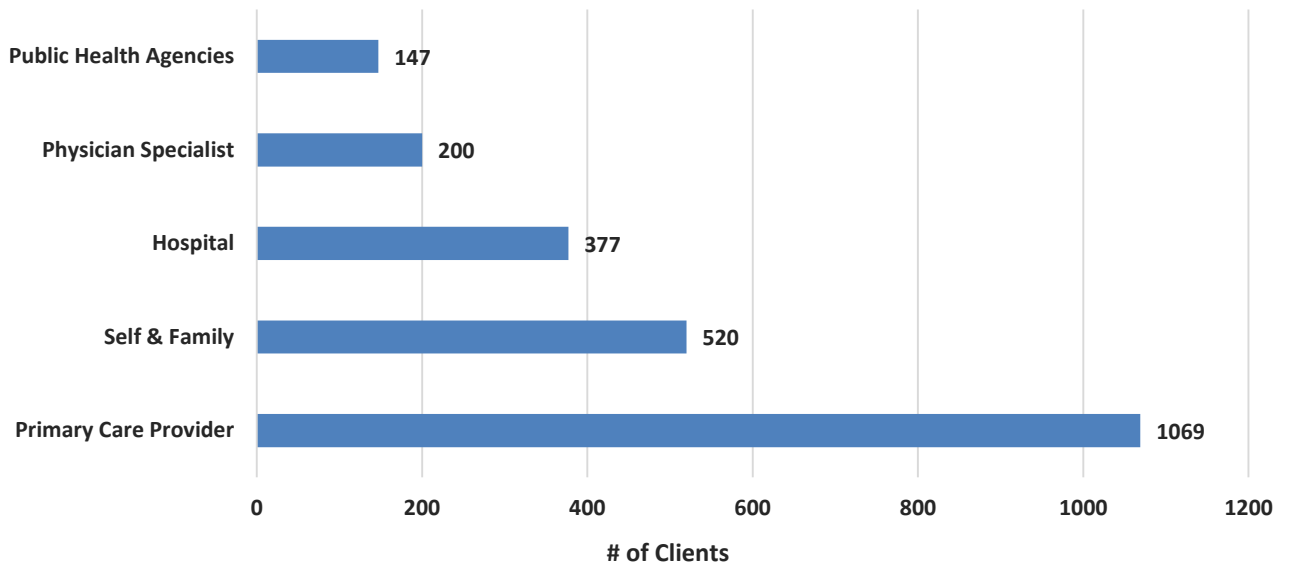
Most clients are cared for by a biological parent (N=1,742). 'None' means that the individual does not have a caregiver.

|                   | Count | Percent |
|-------------------|-------|---------|
| None              | 530   | 20      |
| Biological Parent | 1,742 | 66      |
| Grandparents      | 23    | 1       |
| Other Relatives   | 66    | 2       |
| Adoptive Parents  | 50    | 2       |
| Foster Parents    | 45    | 2       |
| Legal Guardian    | 13    | <1      |
| Other             | 176   | 7       |

## Initial Referral

Clients were most frequently referred to CHDD by a primary care provider (N=1,069) or from Self & Family (N=520). The next most common referrals came from Hospitals (N=377), Physician Specialists (N=200) and Public Health Agencies (N=147).

### Top 5 Referral Sources - 2018



| Initial Referral             | Count | Percent |
|------------------------------|-------|---------|
| Hospital                     | 377   | 14      |
| Other Health Professional    | 19    | 1       |
| Physician Specialist         | 200   | 8       |
| Primary Care Provider        | 1,069 | 40      |
| Public Health Agency - State | 147   | 6       |
| School                       | 0     | 0       |
| Self & Family                | 520   | 20      |
| Unknown/Other/None           | 313   | 12      |

# Client Diagnosis

## Understanding Diagnosis Data

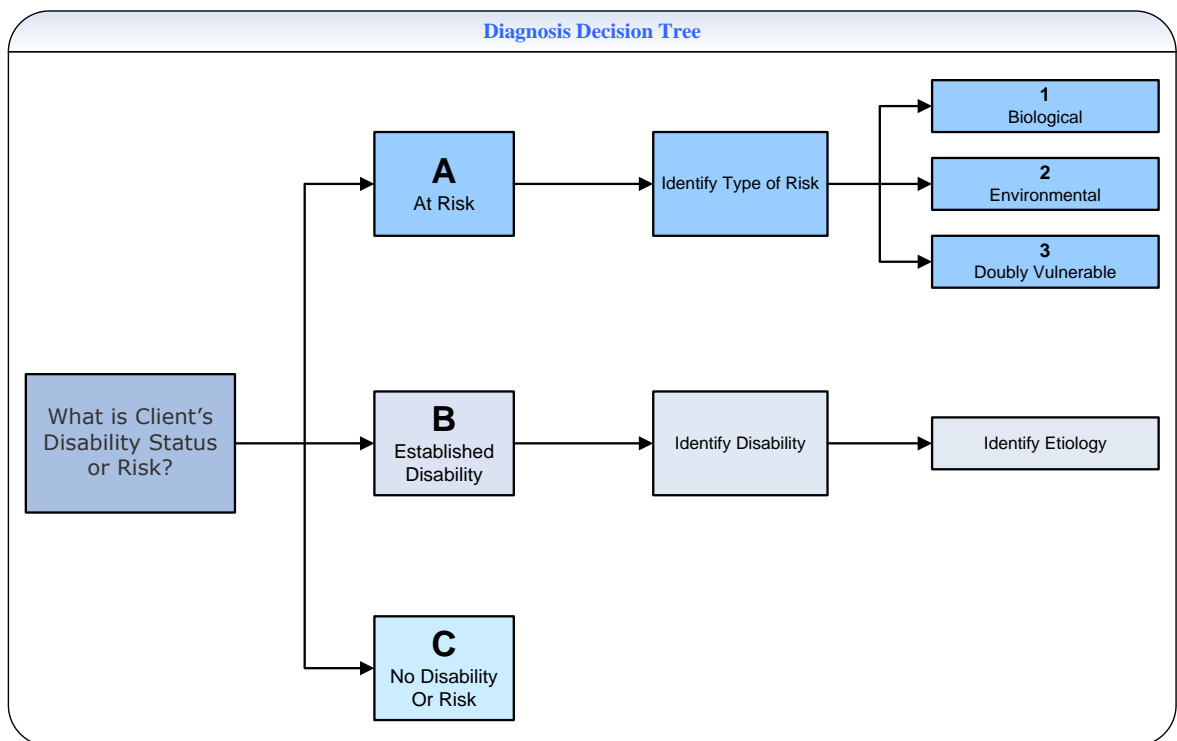
Individual clinical service programs collect detailed diagnosis data, such as ICD-9 and ICD-10 codes, however, in this report we group clients by broad diagnostic categories. Organizing diagnosis data in this way allows us to represent the diversity of individuals served within the CHDD.

Diagnoses are typically based on the decisions of an interdisciplinary team of clinicians. In our system, the first step clinicians take in determining a client diagnosis is to decide the client's disability status. To do this, they first identify whether a client:

- A) is at risk of developing a disability,
- B) has an established disability or,
- C) does not have a disability.

A client is considered "At Risk" if they have been referred to a CHDD clinic for a possible diagnosis due to certain risk factors and during the evaluation it is found that the client does not meet the criteria to be identified as having an "Established Disability," but remain at risk. For clients who do meet the criteria of one or more established disabilities, their diagnoses may include multiple disabilities and etiologies. Finally, a client with concerns who comes to the CHDD for an evaluation and is found to not have sufficient risk factors nor meet the criteria for an "Established Disability," would be categorized as not having a disability.

The diagnosis decision tree below graphically illustrates the entire decision process.

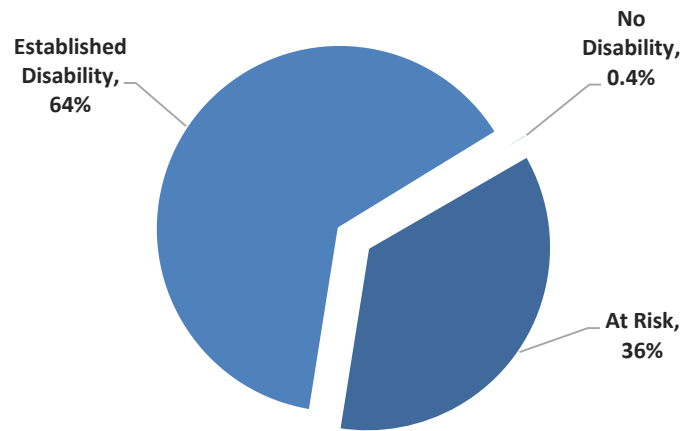


## Client's Disability Status

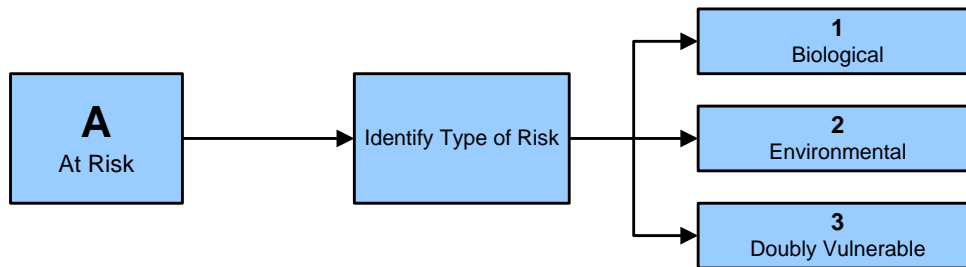
Most clients were classified as having an established disability and the next largest group was identified as at risk. Eleven clients were identified as not having a disability or not at risk.

| <i>Disability Status</i> | <i>Count</i> |
|--------------------------|--------------|
| At Risk                  | 948          |
| Established Disability   | 1,686        |
| No Disability            | 11           |

Disability Status of Clients -2018



## Clients who are At Risk

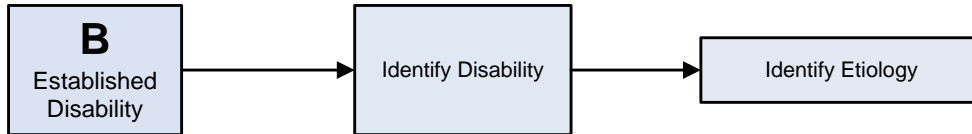


Clients identified as "At Risk" (N=948) are individuals who are at risk of developing a disability but do not currently meet the criteria to be diagnosed with a disability. Clinicians identify one of the following three sets of risk factors for each at risk client:

1. *Biological* - Risk factors based on biological causes such as prematurity, low birth weight, infectious disease (e.g., cytomegalovirus, streptococcus B), illness (e.g., heart surgery), alcohol or drug abuse, toxins, or poor nutrition.
2. *Environmental* - Risk factors based on environmental causes such as poverty, poor parental mental health, low parental intellectual ability, or lack of social supports.
3. *Doubly Vulnerable*- Risk factors that combine both biological and environmental factors.

| <i>Type of Risk</i> | <i>Percent</i> |
|---------------------|----------------|
| Biological          | 80             |
| Environmental       | 0              |
| Doubly Vulnerable   | 20             |

## Clients with an Established Disability

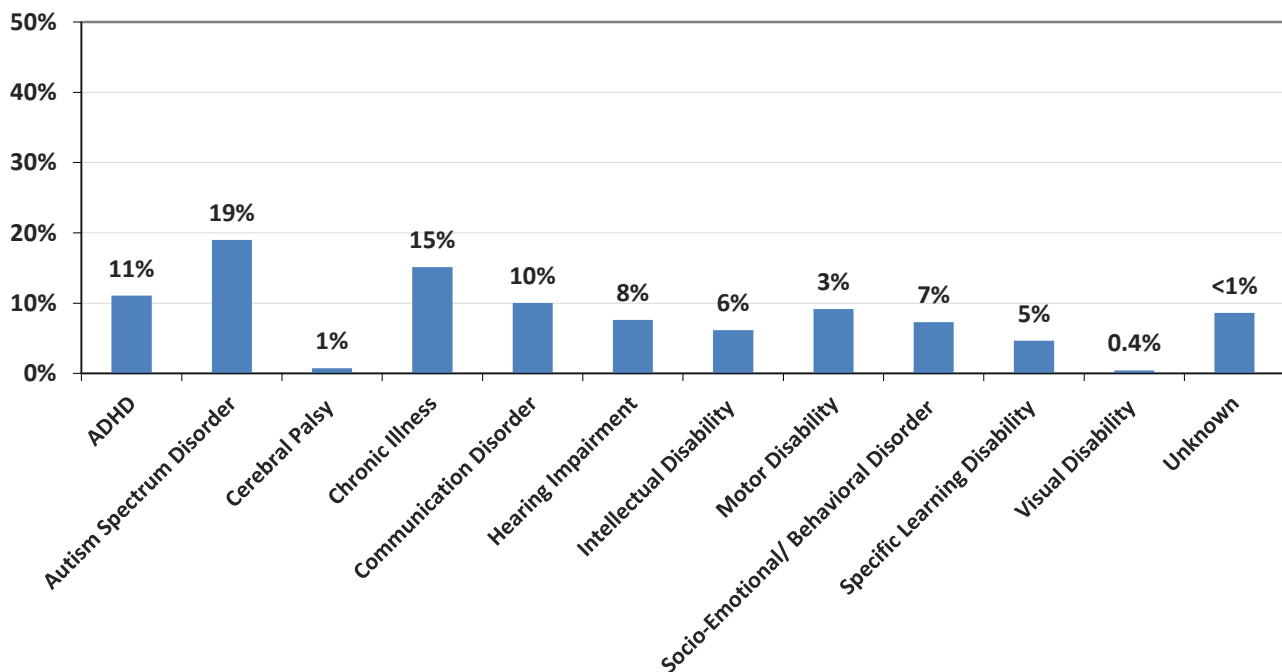


### Categorical Disabilities

There were 1,686 clients identified as having an established disability. Clients can have more than one categorical disability. There were 2,482 categorical disabilities reported. Of these, 19% were reported as an Autism Spectrum Disorder, 15% were reported as a Chronic Illness, and 6% were reported as a Intellectual Disability.

| <i>Categorical Disabilities</i>        | <i>Count</i> |
|--|--------------|
| ADHD                                   | 275          |
| Autism Spectrum Disorder               | 471          |
| Cerebral Palsy                         | 19           |
| Chronic Illness                        | 376          |
| Communication Disorder                 | 249          |
| Hearing Impairment (includes deafness) | 189          |
| Intellectual Disability                | 153          |
| Motor Disability-Unspecified           | 228          |
| Socio-Emotional/Behavioral Disorder    | 181          |
| Specific Learning Disability           | 116          |
| Visual Disability                      | 11           |
| Unknown                                | 214          |

### Categorical Disability - 2018



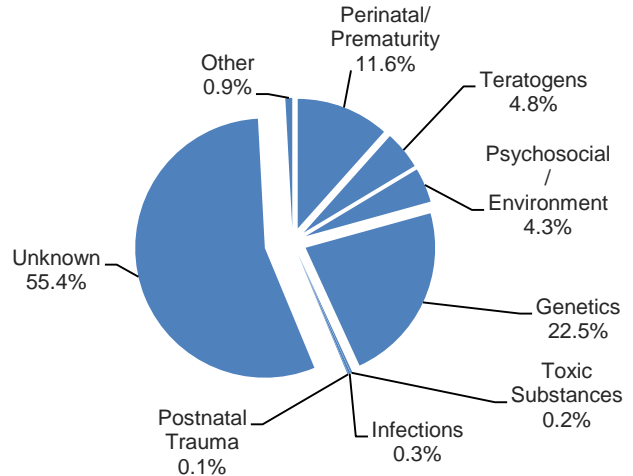


## Etiologies

To the extent possible, clinicians attempt to identify an etiology or cause of established disabilities. More than half (55%) of all clients identified as having one or more established disability, have an undetermined etiology. The most common identified etiology was genetic (22.5%).

| <i>Etiologies</i>        | <i>Count</i> |
|--------------------------|--------------|
| Perinatal/Prematurity    | 218          |
| Teratogens               | 90           |
| Psychosocial/Environment | 81           |
| Genetic                  | 422          |
| Toxic Substances         | 4            |
| Infections               | 5            |
| Postnatal Trauma         | 2            |
| Unknown                  | 1041         |
| Other                    | 16           |

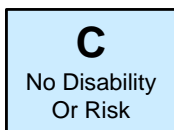
Client Etiologies - 2018



### Definitions of Etiologies

- *Perinatal/Prematurity*: Premature birth or injury at birth or around this period including trauma, asphyxia, hemorrhage, etc.
- *Teratogens*: Maternal exposure to drugs, chemicals or other agents that result in damage to the unborn child either intrauterine or during lactation.
- *Psychosocial/Environment*: Psychological or social factors (e.g., abuse, neglect) which have a bearing on a child's health and/or development (especially cognitive or social).
- *Genetic*: Due to abnormality in genes or chromosomes which may or may not be inherited.
- *Toxic Substances*: Child's postnatal exposure to drugs, chemicals, or other agents in the environment.
- *Infections*: Bacterial or viral infections such as Guillain-Barré syndrome, cytomegalovirus, etc. occurring in intrauterine or postnatal environments.
- *Postnatal Trauma*: Other adverse injuries to the child postnatally such as head injury.

## Clients with No Disability



There were 11 clients identified as not at risk of developing a disability and not manifesting one currently.

# Services Provided

## Quantity of Services

During 2018, 2,645 clients came to one or more of the UCEDD clinical service programs to receive diagnostic and assessment, reevaluation, and/or intervention and treatment services.

A visit is counted every time a client comes to a clinic to receive services. Clinician-client interactions are defined as every time a client is served by a clinician. The total client visits for the year were 17,826 and the total clinician-client interactions were 21,128. Multiple clinician-client interactions occur at most visits due to the interdisciplinary nature of the clinic service programs.

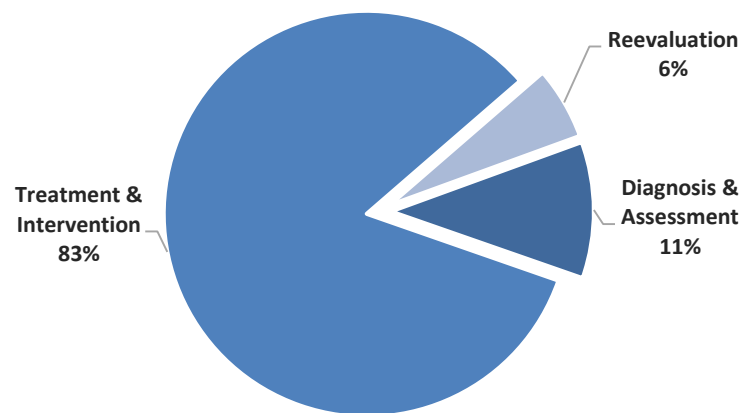
## Type of Services

### Purpose of Services

Most visits to CHDD were for the purpose of intervention/treatment (N=14,850).

|                        | Visits        |
|------------------------|---------------|
| Diagnosis/Assessment   | 1,941         |
| Intervention/Treatment | 14,850        |
| Reevaluation           | 1,035         |
| <b>Total Visits</b>    | <b>17,826</b> |

Visits by Purpose of Service - 2018



- *Diagnosis/Assessment:* A visit that involves the services of an interdisciplinary team for the purpose of determining whether an individual meets the criteria for a diagnosis, to provide an overall assessment of child and family development, and to develop a program plan.
- *Intervention/Treatment:* Ongoing services to meet the needs of a client with an established disability or at risk of developing disabilities.
- *Reevaluation:* A visit for the purpose of determining whether a client's status has changed since the initial assessment.

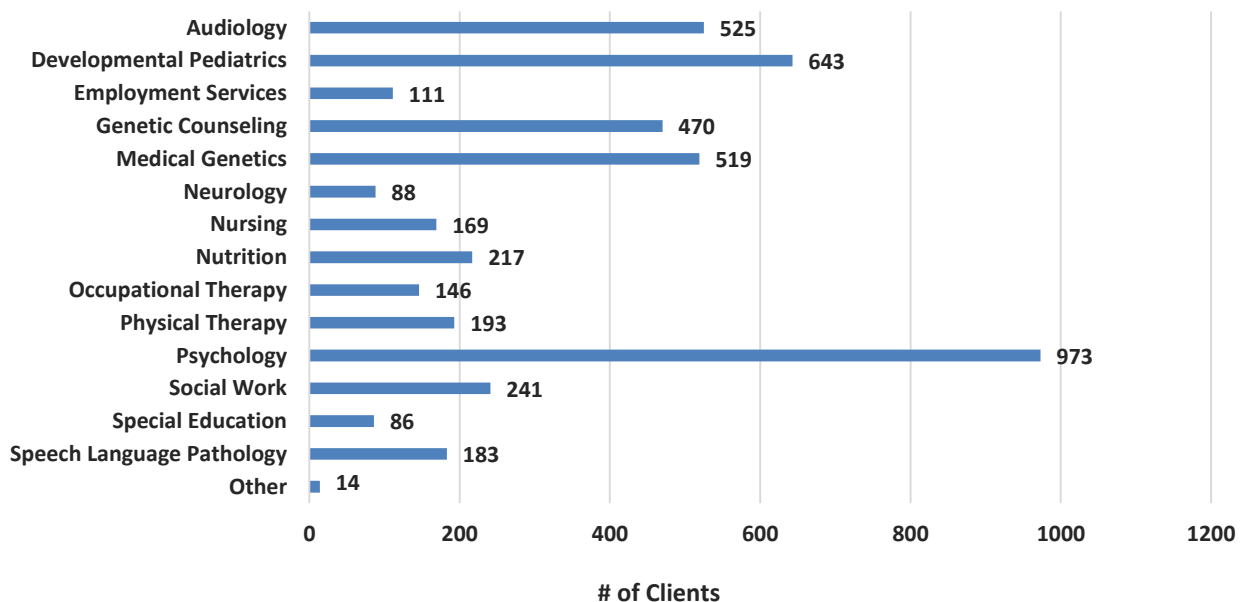
## Services by Discipline

Most clinical service programs at the UCEDD are interdisciplinary; as many as six unique disciplines may provide services within one clinical service program. Psychologists, pediatricians and audiology were the disciplines most frequently involved in services during 2018.

| <i>Discipline</i>         | <i>Total Unique Clients Seen</i> | <i>Total Clinician-Client Interactions</i> |
|---------------------------|----------------------------------|--|
| Audiology                 | 525                              | 688  |
| Developmental Pediatrics  | 643                              | 937  |
| Employment Services*      | 111                              |  |
| Genetic Counseling        | 470                              | 535  |
| Medical Genetics          | 519                              | 627  |
| Neurology                 | 88                               | 79   |
| Nursing                   | 169                              | 214  |
| Nutrition                 | 217                              | 571  |
| Occupational Therapy      | 146                              | 433  |
| Physical Therapy          | 193                              | 130  |
| Psychology                | 973                              | 14,549                                     |
| Social Work               | 241                              | 554  |
| Special Education*        | 86                               |  |
| Speech Language Pathology | 183                              | 1,711                                      |
| Other                     | 14                               | 100  |
| <b>Total</b>              |                                  | <b>21,128</b>                              |

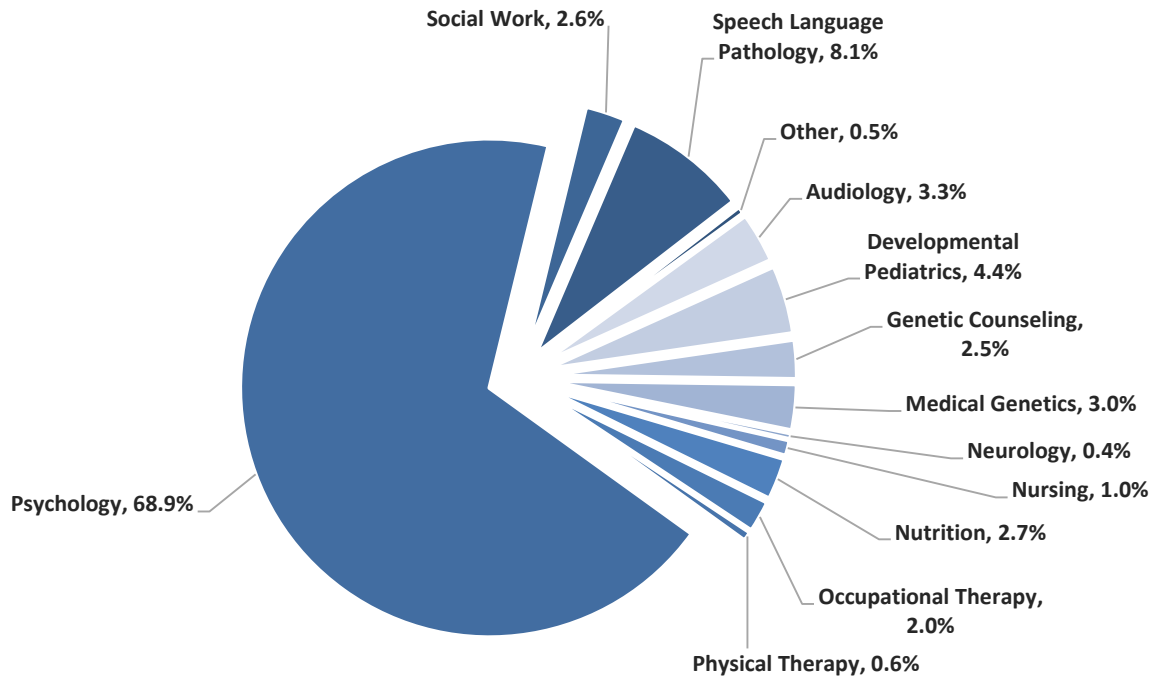
\*Employment Services and Special Education do not have a value for clinician-client interactions because services were measured in hours and/or days of service instead of clinician-client interactions. See page 24.

### Unique Clients Served by Discipline - 2018



As it is common for a clinician to see the same client multiple times throughout the year, most disciplines had more clinician-client interactions than clients seen. The disciplines of psychology, speech language pathology, and pediatrics had the highest number of clinician-client interactions.

### Clinician-Client Interactions by Discipline - 2018



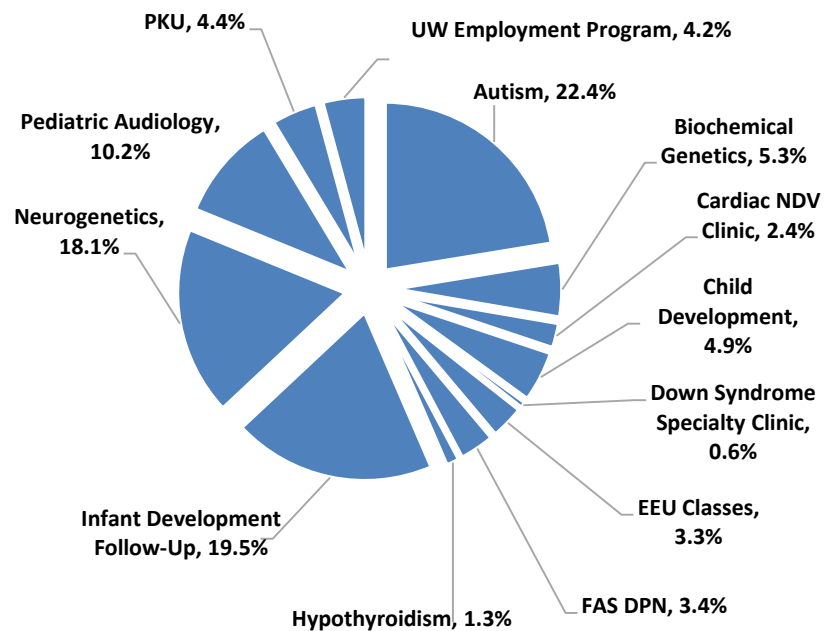
# Clinical Services Data by Program

This section provides select demographic, diagnostic, and services data by clinical service program. A description of each of the thirteen programs included in this report can be found on pages 6 and 7.

## Total Clients Served

| <i>Clinical Service Program</i> | <i>Count</i> |
|---------------------------------|--------------|
| Autism                          | 593          |
| Biochemical Genetics            | 140          |
| Cardiac Neurodevelopment        | 64           |
| Child Development               | 129          |
| Down Syndrome Specialty         | 16           |
| EEU Classes                     | 86           |
| FAS DPN                         | 89           |
| Hypothyroidism                  | 34           |
| Infant Development Follow-Up    | 516          |
| Neurogenetics                   | 480          |
| Pediatric Audiology             | 270          |
| PKU                             | 117          |
| UW Employment Program           | 111          |
| <b>Total</b>                    | <b>2,645</b> |

**Total Clients by Clinical Service Program - 2018**



## Demographics

### Age by Clinical Service Program

While the majority of clients are children, the age range for each clinical service program differs, ranging from less than 1 year for many clinics and up to 91 years for other clinics.

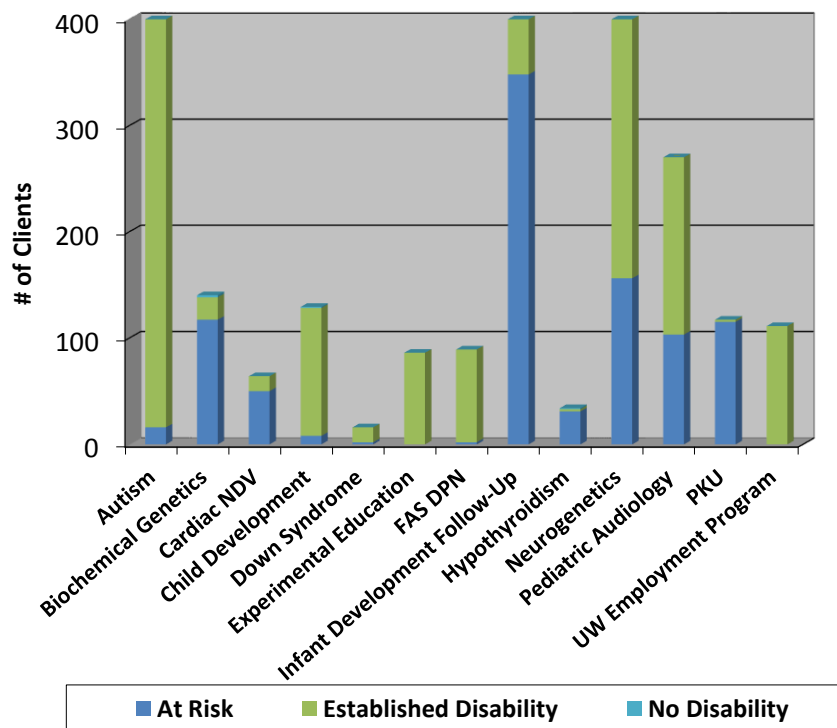
## Client Diagnosis

### Disability Status by Clinical Service Program

The largest number of at risk clients (N=348) were served by the Infant Development Follow-Up Clinic while the largest number of clients with an established disability were served by the Autism Clinic (N=577).

|                              | At Risk      | Established Disability | No Disability |
|------------------------------|--------------|------------------------|---------------|
|                              | <i>Count</i> | <i>Count</i>           | <i>Count</i>  |
| Autism                       | 16           | 577                    | 0             |
| Biochemical Genetics         | 117          | 21                     | 2             |
| Cardiac Neurodevelopment     | 50           | 14                     | 0             |
| Child Development            | 8            | 120                    | 1             |
| Down Syndrome Specialty      | 2            | 14                     | 0             |
| Experimental Education       | 0            | 86                     | 0             |
| FAS DPN                      | 2            | 87                     | 0             |
| Hypothyroidism               | 31           | 2                      | 1             |
| Infant Development Follow-Up | 348          | 168                    | 0             |
| Neurogenetics                | 156          | 317                    | 7             |
| Pediatric Audiology          | 103          | 167                    | 0             |
| PKU                          | 115          | 2                      | 0             |
| UW Employment Program        | 0            | 111                    | 0             |
| <b>Total</b>                 | <b>948</b>   | <b>1,686</b>           | <b>11</b>     |

**Disability Status by Clinical Service Program - 2018**



## Services Provided

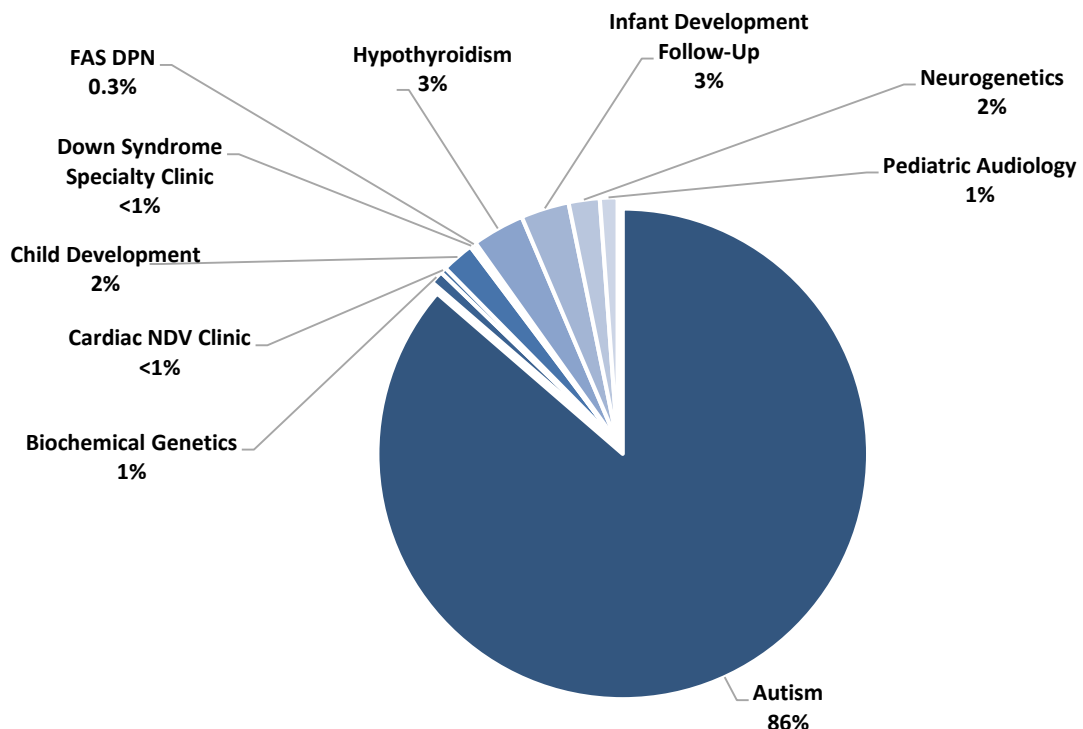
### Visits to Clinical Service Programs

The Autism Clinic had the highest numbers of visits per client, averaging 26 visits per client. All other clinics see clients 1 to 3 times per year, on average.

| <i>Clinical Service Programs</i> | <i>Count of Clients</i> | <i>Total Visits</i> | <i>Avg. of Visits per Client</i> |
|----------------------------------|-------------------------|---------------------|----------------------------------|
| Autism                           | 593                     | 15,298              | 25.8                             |
| Biochemical Genetics             | 140                     | 154                 | 1.1                              |
| Cardiac Neurodevelopment         | 64                      | 70                  | 1.1                              |
| Child Development                | 129                     | 379                 | 2.9                              |
| Down Syndrome Specialty          | 16                      | 24                  | 1.5                              |
| FAS DPN                          | 89                      | 109                 | 1.2                              |
| Hypothyroidism                   | 34                      | 49                  | 1.4                              |
| Infant Development Follow-Up     | 516                     | 611                 | 1.2                              |
| Neurogenetics                    | 480                     | 563                 | 1.2                              |
| Pediatric Audiology              | 270                     | 363                 | 1.3                              |
| PKU                              | 117                     | 206                 | 1.8                              |
| UW Employment Program*           | 111                     | -                   | -                                |
| Experimental Education Classes*  | 86                      | -                   | -                                |
| <b>Total</b>                     |                         | <b>17,826</b>       |                                  |

\*See page 24.

### Clinician-Client Interactions by Clinical Service Program - 2018



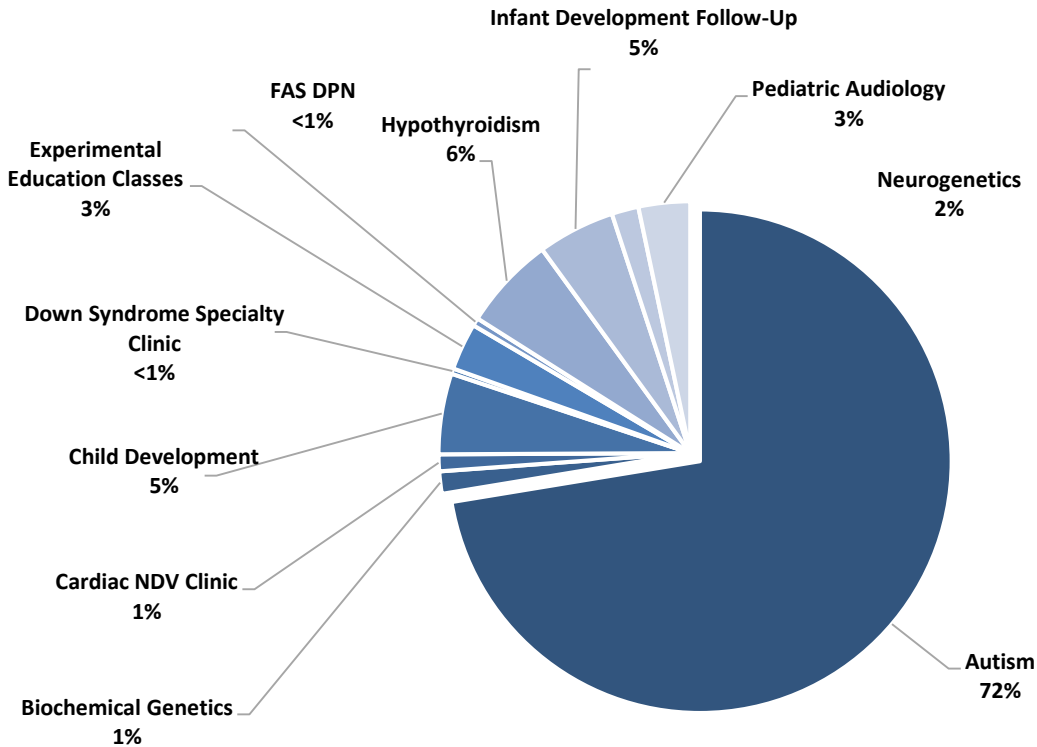
## Clinician-Client Interactions by Clinical Service Program

The clinic with the highest average number of clinician-client interactions per client in 2018 was the Autism Clinic.

|                                 | <i>Count of Clients</i> | <i>Clinician-Client Interactions</i> | <i>Avg. Clinician-Client Interactions in 2018</i> |
|---------------------------------|-------------------------|--------------------------------------|---|
| Autism                          | 593                     | 15,298                               | 25.8  |
| Biochemical Genetics            | 140                     | 303                                  | 2.2   |
| Cardiac Neurodevelopment        | 64                      | 228                                  | 3.6   |
| Child Development               | 129                     | 1,096                                | 8.5   |
| Down Syndrome Specialty         | 16                      | 73                                   | 4.6   |
| Experimental Education Classes* | 86                      |                                      |   |
| FAS DPN                         | 89                      | 638                                  | 7.2   |
| Hypothyroidism                  | 34                      | 107                                  | 3.1   |
| Infant Development Follow-Up    | 516                     | 1,270                                | 2.5   |
| Neurogenetics                   | 480                     | 1,050                                | 2.2   |
| Pediatric Audiology             | 270                     | 365                                  | 1.4   |
| PKU                             | 117                     | 700                                  | 6.0   |
| UW Employment Program*          | 111                     |                                      |   |
| <b>Total</b>                    | <b>2,645</b>            | <b>21,128</b>                        |   |

\*See page 24.

## Clinician-Client Interactions by Clinical Service Program - 2018



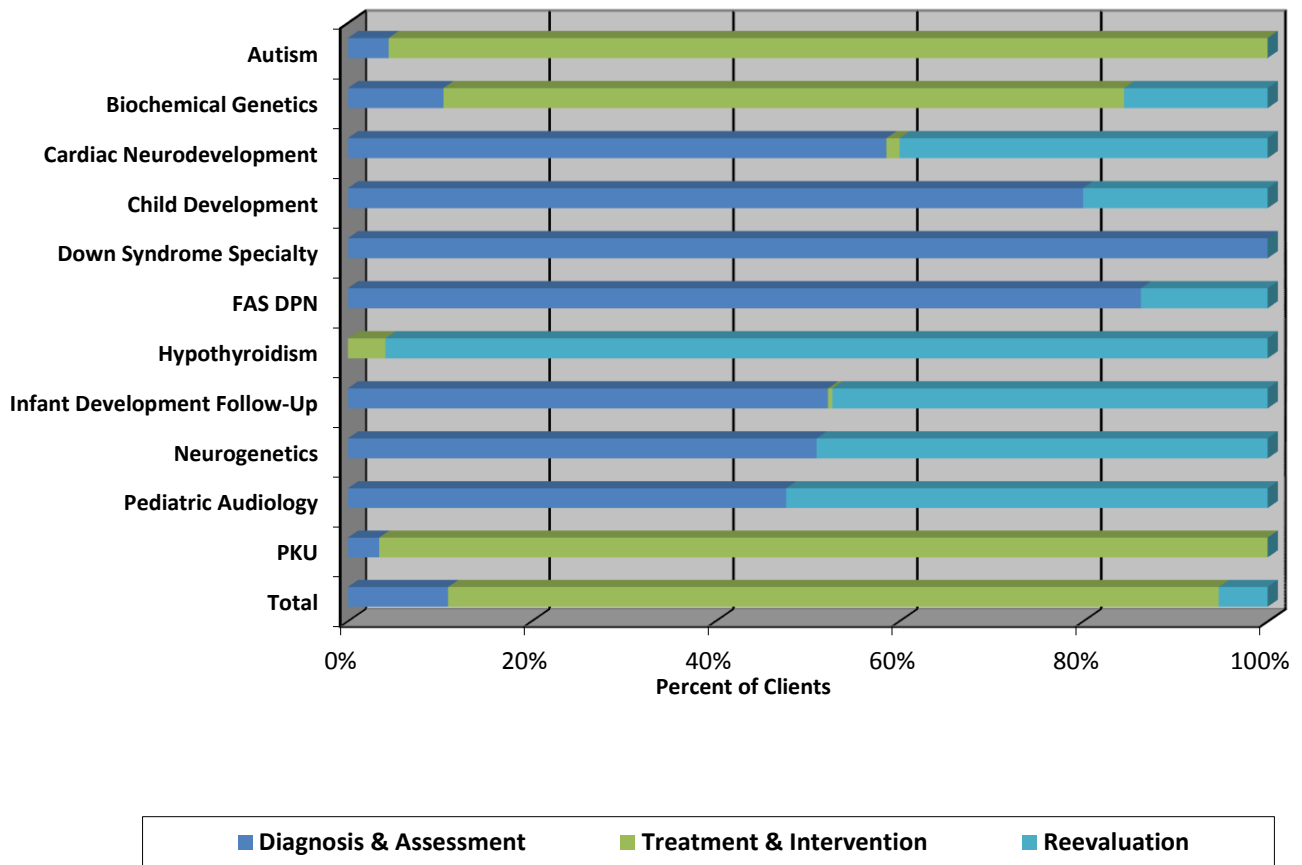


## Purpose of Services by Clinical Service Program

The Autism, Biochemical Genetics, and PKU clinical services programs primarily provide treatment and intervention services, while the remaining clinics focus more on diagnosis & assessment and reevaluation.

| <i>Clinical Service Programs</i> | <i>Diagnosis &amp; Assessment</i> | <i>Treatment &amp; Intervention</i> | <i>Reevaluation</i> | <i>Total Visits</i> |
|----------------------------------|-----------------------------------|-------------------------------------|---------------------|---------------------|
| Autism                           | 677                               | 14,621                              | 0                   | 15,298              |
| Biochemical Genetics             | 16                                | 114                                 | 24                  | 154                 |
| Cardiac Neurodevelopment         | 41                                | 1                                   | 28                  | 70                  |
| Child Development                | 303                               | 0                                   | 76                  | 379                 |
| Down Syndrome Specialty          | 24                                | 0                                   | 0                   | 24                  |
| FAS DPN                          | 94                                | 0                                   | 15                  | 109                 |
| Hypothyroidism                   | 0                                 | 2                                   | 47                  | 49                  |
| Infant Development Follow-Up     | 319                               | 3                                   | 289                 | 611                 |
| Neurogenetics                    | 287                               | 0                                   | 276                 | 563                 |
| Pediatric Audiology              | 173                               | 0                                   | 190                 | 363                 |
| PKU                              | 7                                 | 199                                 | 0                   | 206                 |
| <b>Total</b>                     | <b>1,941</b>                      | <b>14,850</b>                       | <b>1,035</b>        | <b>17,826</b>       |

**Purpose of Service of Visits by Clinical Service Program**



## UW Employment Program

All services provided within the UW Employment Program fall under the discipline category Employment Services and are counted as Intervention/Treatment Services. The UW Employment Program staff provide services to clients to ensure successful and equitable employment through working with employers, parents, agencies, and other support personnel. Employment service hours include job development, job placement, job training, and continued employment support.

### Employment Services

|  |           |
|--|-----------|
| Total Clients  | 111       |
| Average Hours of Employment Services Provided per Client | 73 hrs    |
| Total Sum of Employment Services                         | 8,045 hrs |

## Experimental Education Unit Classes

Experimental Education Unit Classes provide inclusive interdisciplinary education classes and services to children birth to 7 years of age. Undergraduate and graduate students also obtain valuable training in these classes. All services provided in the Experimental Education Classes are classified as Intervention/Treatment.

### Special Education Services

|  |                          |
|--|--------------------------|
| Total Clients  | 86                       |
| Average Days of Special Education Services Provided per Client | 131 days                 |
| Total Sum of Special Education Services                        | 11,628 days (45,247 hrs) |

There are four Experimental Education Classes in which varying quantities of services are provided. The Project DATA, implemented in 2006, is a program provided for students on the autism spectrum in addition to their regular classes. Of 86 students, 28% (24 students) participated in the Project DATA. Each of these 24 students spent on average 153 days in the Project DATA. The total hours that the 24 students spent in the Project DATA were 13,770 hours.

| <b>Experimental Education Classes</b> | <i>Total Clients</i> | <i>Avg. Days per Client</i> | <i>Total Days</i> | <i>Avg. Hrs per Day</i> | <i>Total Hours</i> |
|---------------------------------------|----------------------|-----------------------------|-------------------|-------------------------|--------------------|
| Infant-Toddler (birth – 3 yrs)        | 21                   | 68                          | 1,428             | 1.75                    | 2,499              |
| Preschool (3-5 yrs) SPP Full Day*     | 12                   | 153                         | 1,836             | 6.00                    | 11,016             |
| Preschool (3-5 yrs)*                  | 36                   | 153                         | 5,508             | 2.65                    | 14,596             |
| Kindergarten (5 yrs)                  | 17                   | 168                         | 2,856             | 6.00                    | 17,136             |
| Total                                 | 86                   | 131                         | 11,628            | 3.10                    | 45,247             |

\*Include Project DATA hours

# Contact Information

- [Biochemical Genetics Clinic](#) 206-598-1800
- [Cardiac Neurodevelopmental Clinic](#) 206-598-3327
- [Child Development Clinic](#) 206-598-9346
- [Congenital Hypothyroidism Clinic](#) 206-598-1800
- [Down Syndrome Specialty Clinic](#) 206-598-3327
- [EEU Classes at the Haring Center](#) 206-543-4011
- [FAS Diagnostic and Prevention Network Clinic](#) 206-598-7666
- [Genetic Medicine Clinic](#) 206-598-4030
- [Infant Development Follow-up Clinic](#) 206-598-9348
- [Neurogenetics Clinic](#) 206-598-4030
- [Pediatric Audiology Clinic](#) 206-598-9347
- [PKU \(Phenylketonuria\) Clinic](#) 206-598-1800
- [Autism Center Clinical Services](#) 206-221-6806
- [UW Employment Program](#) 206-543-6387

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*Craig Douglas*

*Kathryn Larson*

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