

This item is likely protected under Title 17 of the U.S. Copyright Law. Unless on a Creative Commons license, for uses protected by Copyright Law, contact the copyright holder or the author.

Access to this work was provided by the University of Maryland, Baltimore County (UMBC) ScholarWorks@UMBC digital repository on the Maryland Shared Open Access (MD-SOAR) platform.

**Please provide feedback**

Please support the ScholarWorks@UMBC repository by emailing [scholarworks-group@umbc.edu](mailto:scholarworks-group@umbc.edu) and telling us what having access to this work means to you and why it's important to you. Thank you.



# The Hilltop Institute

## Medicaid Long-Term Services and Supports in Maryland: The Brain Injury Waiver

FY 2016 to FY 2020

The Brain Injury (BI) Waiver provides services to individuals aged 22 or older with a brain injury diagnosis who require specialty hospital or nursing facility level of care to be supported in their own homes or community-based settings. Each year, the Maryland Department of Health strives to serve an additional ten participants through the BI Waiver.

### Demographics of Waiver Participants

The number of BI Waiver participants increased 28.6%—from 91 in FY 2016 to 117 in FY 2020. Males continued to account for approximately 80% of the participants. The percentage of minority participants increased almost 36%—from 39 in FY 2016 to 53 in FY 2020. Finally, those aged 51 years and older increased by 37.8%—from 45 in FY 2016 to 62 in FY 2020.

Demographic	FY 2016		FY 2020	
	Frequency (N=91)	Percentage (%)	Frequency (N=117)	Percentage (%)
<b>Sex</b>				
<b>Female</b>	17	18.7%	22	18.8%
<b>Male</b>	74	81.3%	95	81.2%
<b>Race</b>				
<b>Black</b>	26	28.6%	33	28.2%
<b>*Other/Unknown</b>	13	14.3%	20	17.1%
<b>White</b>	52	57.1%	64	54.7%
<b>Age Group</b>				
<b>22 to 50 years old</b>	46	50.5%	55	47.0%
<b>51 years and older</b>	45	49.5%	62	53.0%

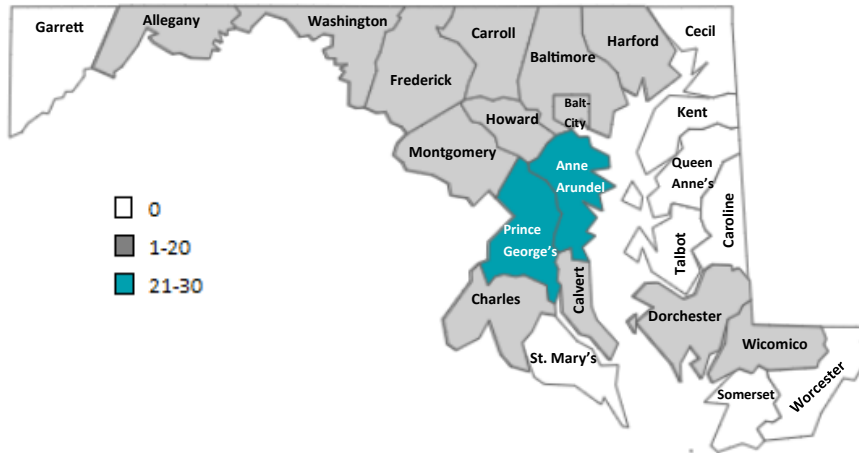
\* Includes Asian, Hispanic, and Unknown due to small cell sizes.

### Trends in Waiver Enrollment and Participation

Summary Measure	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
<b>Total Number of Participants</b>	91	102	106	113	117
<b>Average Annual Medicaid Expenditures</b>	\$117,497	\$110,801	\$115,045	\$120,955	\$121,134
<b>Average Age at Fiscal Year's End</b>	48.7	49.0	49.5	49.3	49.6
<b>Average Waiver Span in Years</b>	4.0	4.0	4.4	4.9	5.5
<b>Number of Participants Newly Enrolled</b>	10	20	17	12	11
<b>Average Age at Time of Enrollment</b>	49.8	47.2	46.4	39.8	45.5
<b>Number of Participants Disenrolled</b>	5	9	5	5	6
<b>Average Age at Time of Disenrollment</b>	53.2	48.1	53.4	55.2	51.0

The average annual per-person Medicaid expenditure increased 3.1%—from \$117,497 in FY 2016 to \$121,134 in FY 2020. During the same time period, the average waiver span in years increased from 4.0 to 5.5 years.

## Waiver Participants, by County, FY 2020

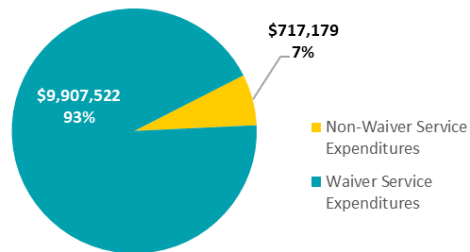


In FY 2020, the largest number of BI Waiver participants received waiver services in Anne Arundel and Prince George's Counties.

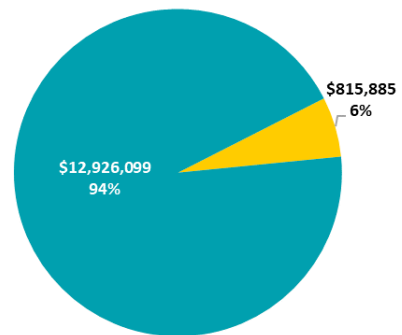
## Total Medicaid Waiver & Non-Waiver Expenditures for Waiver Participants

Total Medicaid expenditures for BI Waiver participants increased 29.3% during the study period: from \$10.6 million (FY 2016) to \$13.7 million (FY 2020). The percentage of waiver expenditures was consistent in FYs 2016 (93%) and 2020 (94%).

Total Medicaid Expenditures, FY 2016  
\$10,624,701



Total Medicaid Expenditures, FY 2020  
\$13,741,984



## Waiver Service Usage

Waiver Service	FY 2016		FY 2020	
	Users	Payments	Users	Payments
<b>BI Residential Habilitation Waiver Level 2</b>	71	\$5,632,649	80	\$7,192,750
<b>BI Day Habilitation Waiver Level 2</b>	66	\$1,153,253	84	\$1,565,613
<b>BI Day Habilitation Waiver Level 3</b>	30	\$634,269	42	\$982,460
<b>BI Residential Habilitation Waiver Level 3</b>	27	\$2,291,302	26	\$2,875,300
<b>BI Supported Employment Waiver Level 3</b>	12	\$81,817	*	\$25,127
<b>BI Individual Support Services</b>	*	\$33,803	17	\$203,535
<b>BI Day Habilitation Waiver Level 1</b>	*	\$10,101	*	\$3,168
<b>BI Residential Habilitation Waiver Level 1</b>	*	\$66,064	*	\$78,010
<b>BI Supported Employment Waiver Level 1</b>	*	\$964	*	\$134
<b>BI Supported Employment Waiver Level 2</b>	*	\$3,299	0	\$0

Expenditures for BI residential habilitation level 2 accounted for the largest expenditures for both FYs 2016 and 2020 (\$5.6 and \$7.2 million, respectively).

\*Cell values less than 11 have been suppressed.