

#### Outline

- Methods
- Hospitals
- Data from 2010-2015
  - Pediatric o-17 years
    - All visits
    - DC zip codes only
  - Adult 18-64 years
    - All visits
    - DC zip codes only
  - Senior Data Over 65 years
    - All visits
    - DC zip codes only



#### Methods

- DC DOH supported data collect since 2005.
- Data received from DC Hospital Association, provided by Truven Health Analytics.\*
- ED Visit dataset includes "treat-and-release" visits. ED visits that resulted in hospital admission are included only in the Hospital Discharge dataset.
- Hospital Discharge dataset includes all hospital admissions, regardless of whether visits began in the ED, including transfers.
- Based on ICD-9 codes 493.xy and ICD-10 codes J45.xy,\*\*
  including cases with primary, secondary, or tertiary diagnosis
  of asthma.



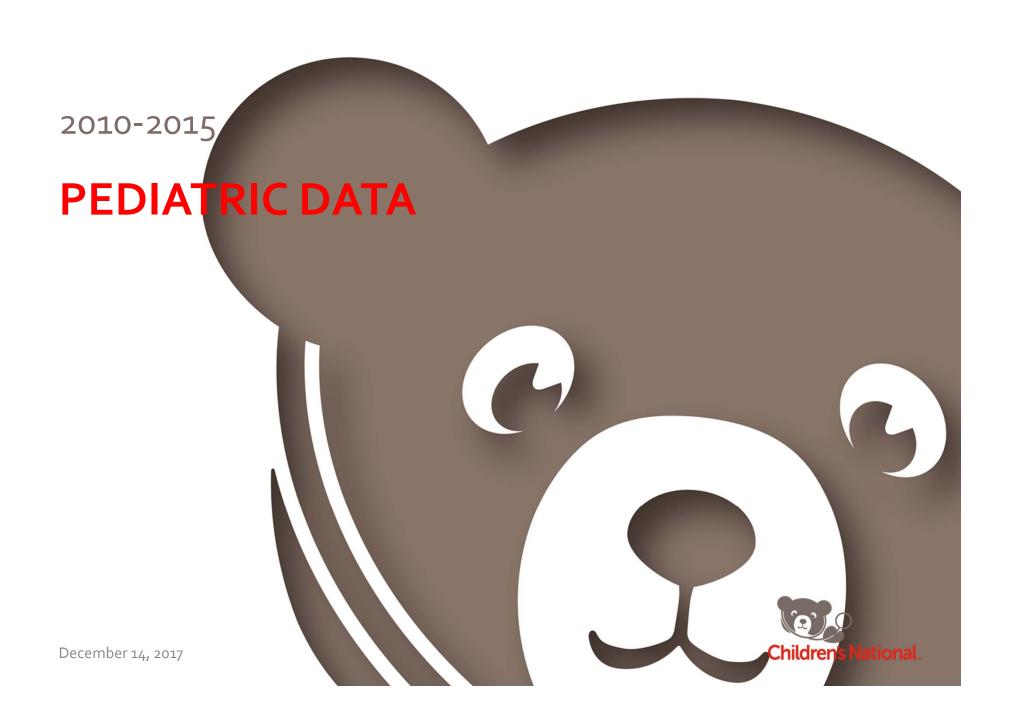
<sup>\*</sup> Data on ED visits to United Medical Center received separately.

<sup>\*\*</sup> ICD-10 conversion occurred October 2015.

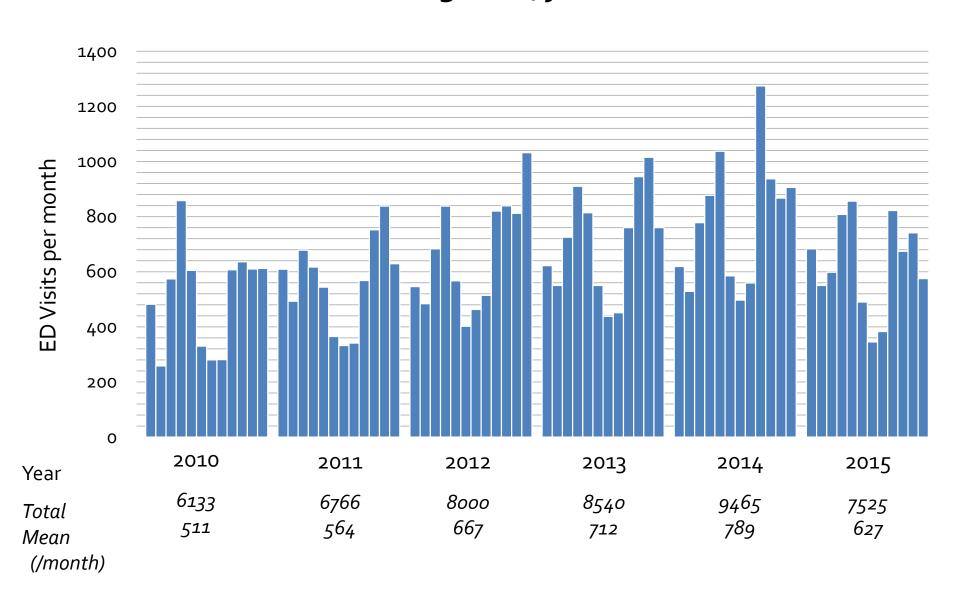
#### Hospitals

- Children's National
- George Washington University Hospital
- Georgetown University Hospital
- Howard University Hospital
- Providence Hospital
- Sibley Memorial Hospital
- United Medical Center
- Washington Hospital Center



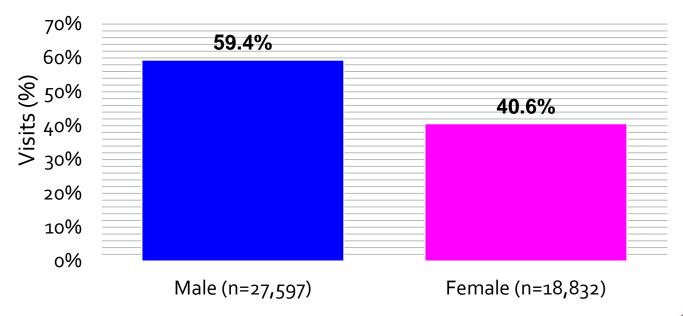


#### ED Visits for Asthma per Month Age 0-179



### Gender Distribution of ED Visits Age 0-179

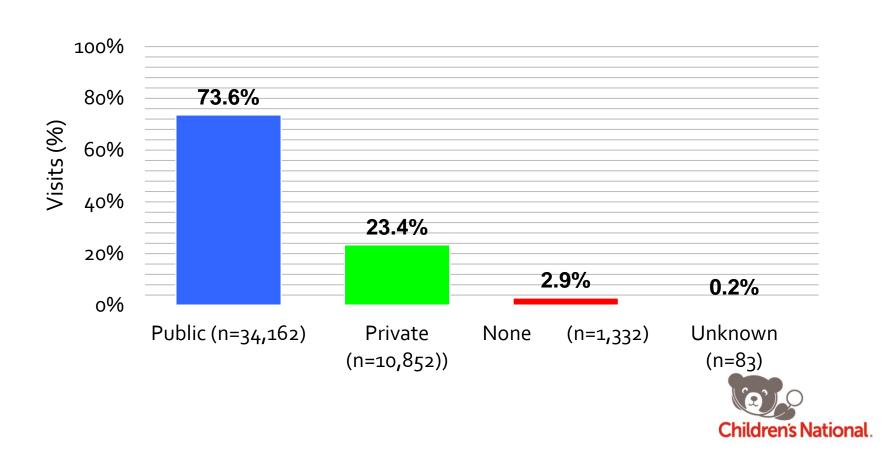
2010-2015 (n=46,429)





## Insurance Type of ED Visits Age 0-179

2010-2015 (n=46,429)



#### ED Visits and Admissions for Asthma Age 0-179

	ED Visits	Admissions	% Admitted *
2010	6,133	1,687	21.6%
2011	6,766	1,700	20.1%
2012	8,000	1,858	18.8%
2013	8,540	1,699	16.6%
2014	9,465	1,566	14.2%
2015	7,525	1,648	18.0%
Total	46,429	10,158	18.0%

<sup>\*</sup> Percentage of total visits (ED visits and hospital admissions)



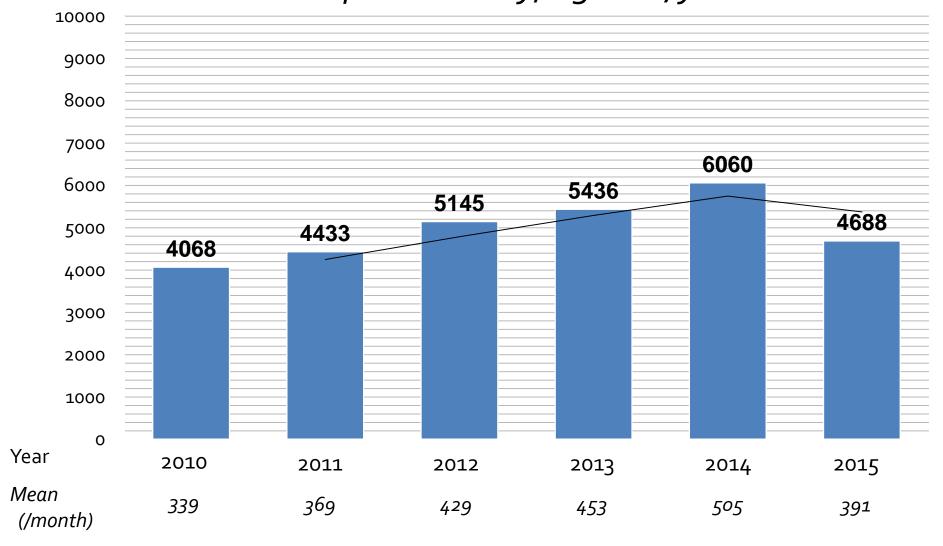
### Proportion of Total Visits

#### Made by DC Residents Age 0-17y

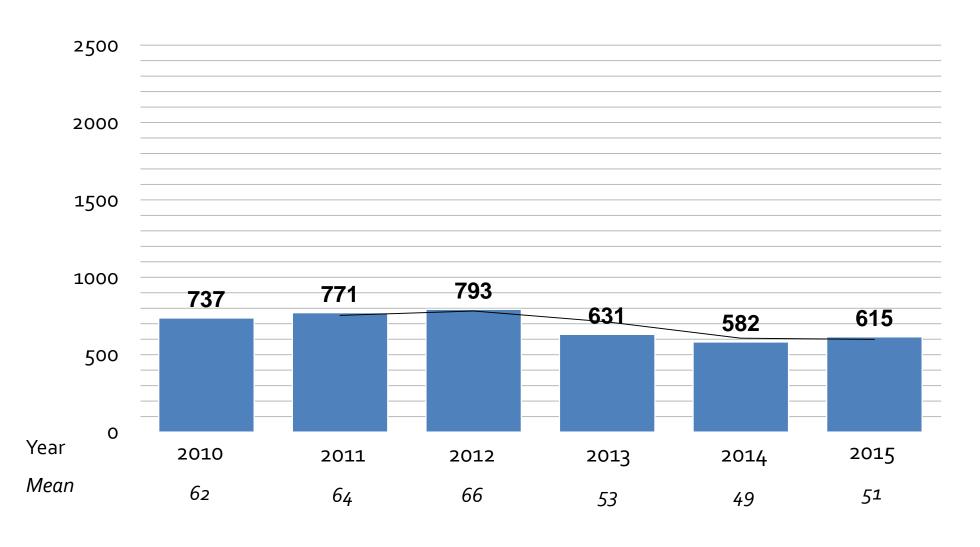
	<b>ED Visits</b>	Admissions
2010	66.3%	43.7%
2011	65.5%	45.4%
2012	64.3%	42.7%
2013	63.7%	37.1%
2014	64.0%	37.2%
2015	62.3%	37.3%
Total	64.2%	40.6%

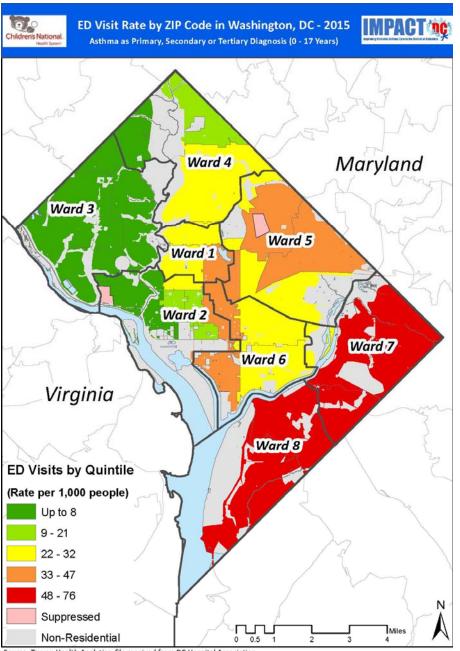


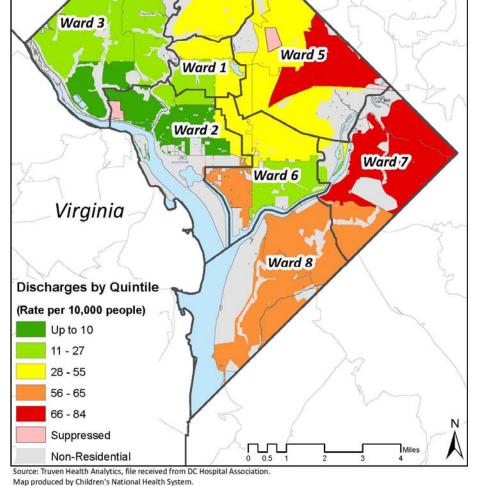
ED Visits for Asthma DC Zip Codes Only, Age 0-179



### Hospital Admissions for Asthma DC Zip Codes Only, Age 0-179







Discharge Rate by ZIP Code in Washington, DC - 2015

Asthma as Primary, Secondary or Tertiary Diagnosis (0 - 17 Years)

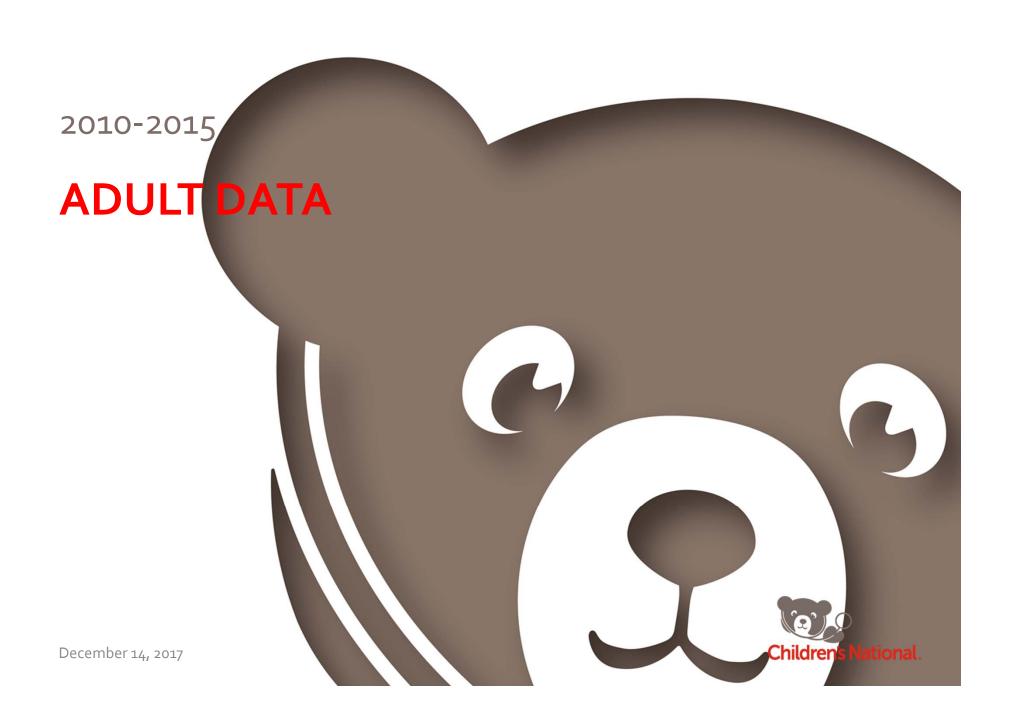
Ward 4

Maryland

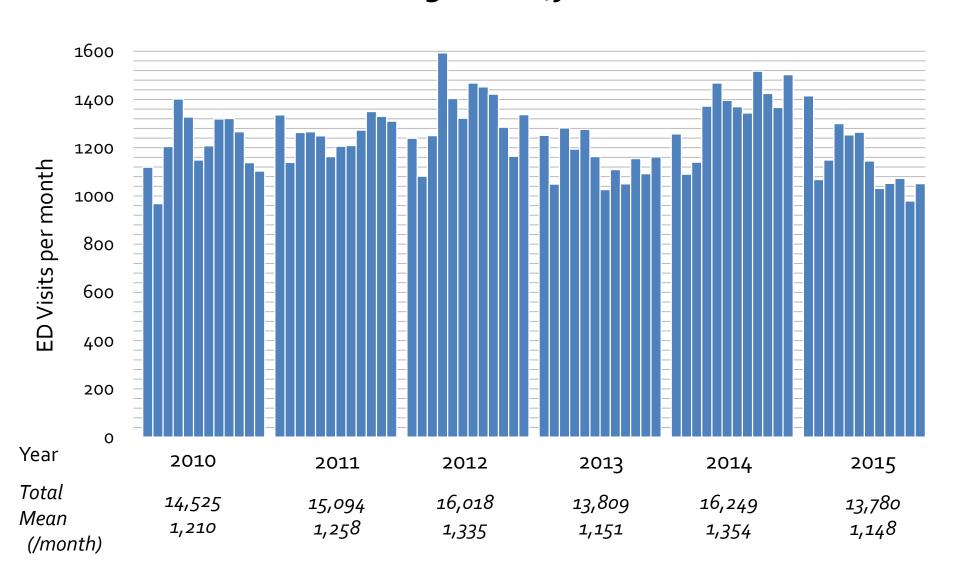
Children's National. Health System

Source: Truven Health Analytics, file received from DC Hospital Association.

Map produced by Children's National Health System.



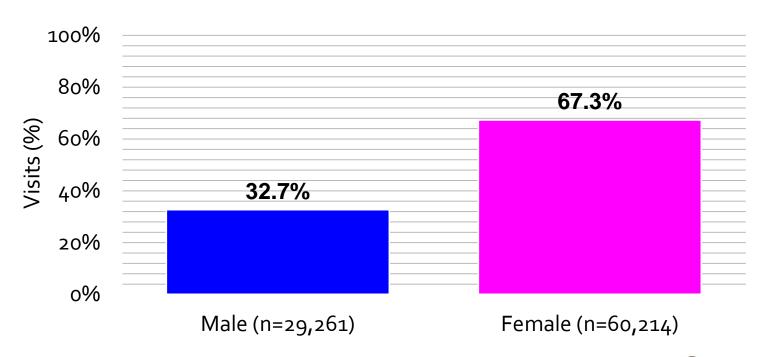
#### ED Visits for Asthma per Month Age 18-64y



### Gender Distribution of ED Visits

Age 18-64y

2010-2015 (n=89,475)

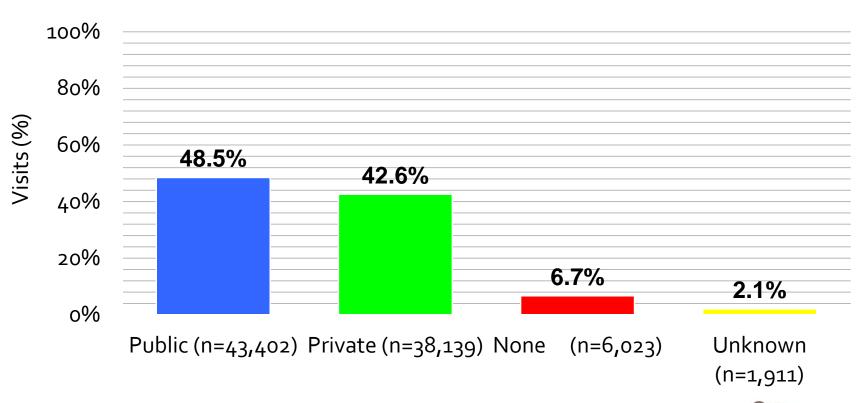




#### Insurance Type of ED Visits

Age 18-64y

2010-2015 (n=89,475)





#### ED Visits and Admissions for Asthma Age 18-64y

	<b>ED Visits</b>	Admissions	% Admitted*
2010	14,525	2,844	16.4%
2011	15,094	2,943	16.3%
2012	16,018	2,928	15.5%
2013	13,809	2,730	16.5%
2014	16,249	2,662	14.1%
2015	13,780	2,245	14.0%
Total	89,475	16,352	15.5%

<sup>\*</sup> Percentage of total visits (ED visits and hospital admissions)



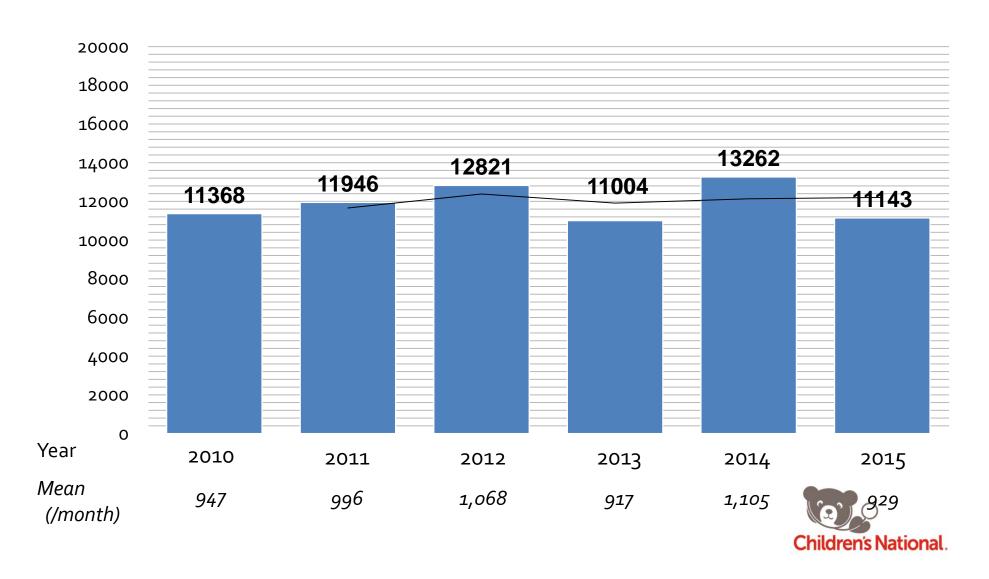
### Proportion of Total Visits

#### Made by DC Residents Age 18-64y

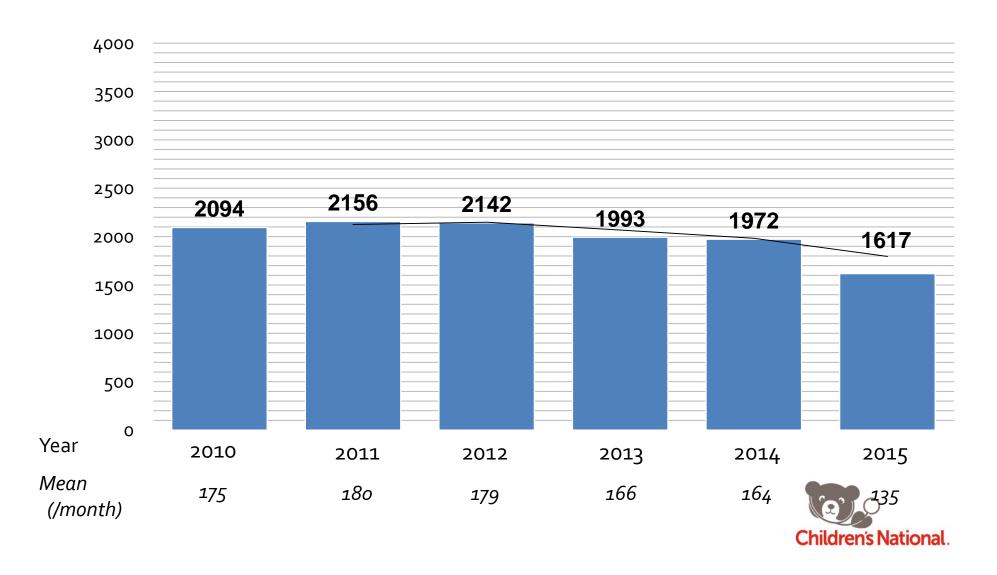
	ED Visits	Admissions
2010	78.3%	73.6%
2011	79.1%	73.3%
2012	80.0%	73.2%
2013	79.7%	73.0%
2014	81.6%	74.1%
2015	80.9%	72.0%
Total	80.0%	73.2%

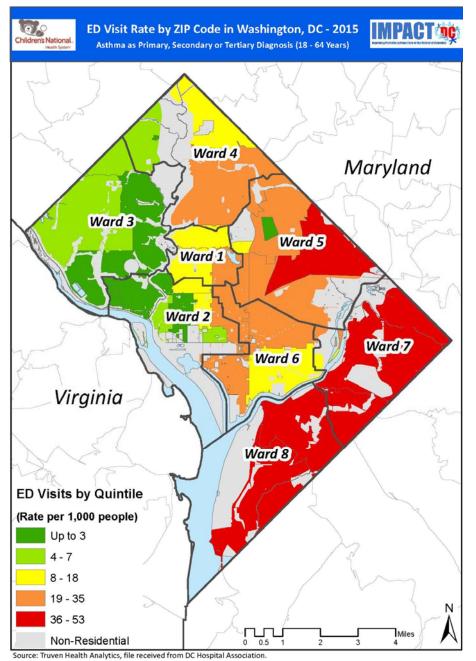


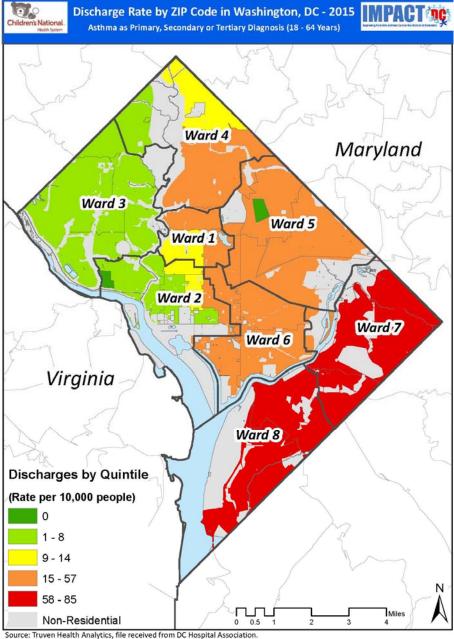
## ED Visits for Asthma DC Zip Codes Only, Age 18-64y



### Hospital Admissions for Asthma DC Zip Codes Only, Age 18-64y





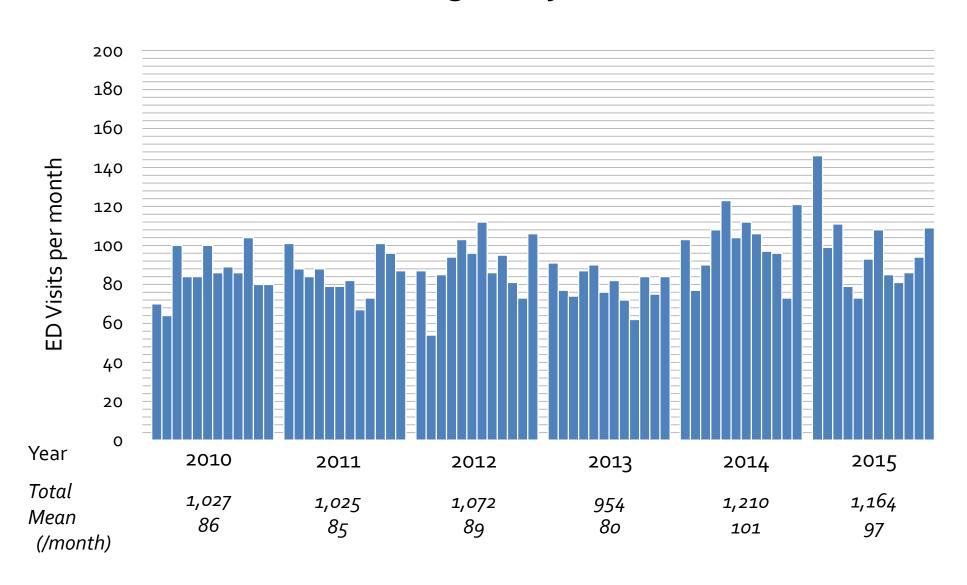


Source: Truven Health Analytics, file received from DC Hospital Association Map produced by Children's National Health System.

Map produced by Children's National Health System.

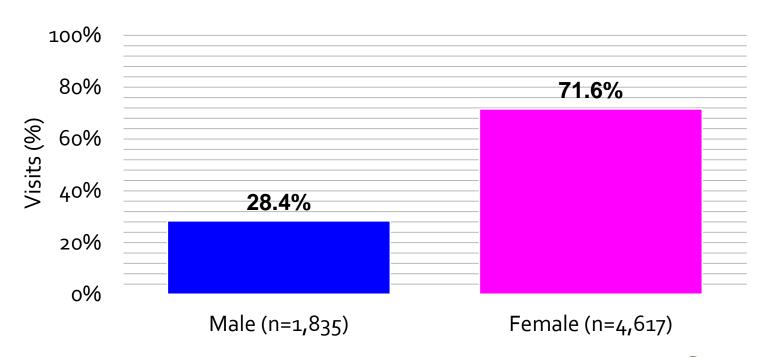


## ED Visits for Asthma per Month Age ≥65y



### Gender Distribution of ED Visits Age ≥65y

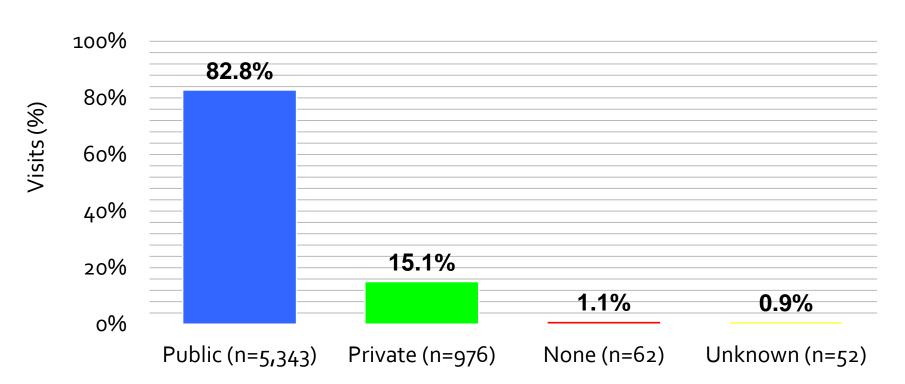
2010-2015 (n=6,452)





### Insurance Type of ED Visits Age ≥65y

2010-2015 (n=6,452)





# ED Visits and Admissions for Asthma *Age* ≥65*y*

	<b>ED Visits</b>	Admissions	% Admitted*
2010	1,027	703	40.6%
2011	1,025	736	41.8%
2012	1,072	763	41.6%
2013	954	700	42.3%
2014	1,210	599	33.1%
2015	1,164	510	30.5%
Total	6,452	4,011	38.3%

<sup>\*</sup> Percentage of total visits (ED visits and hospital admissions)

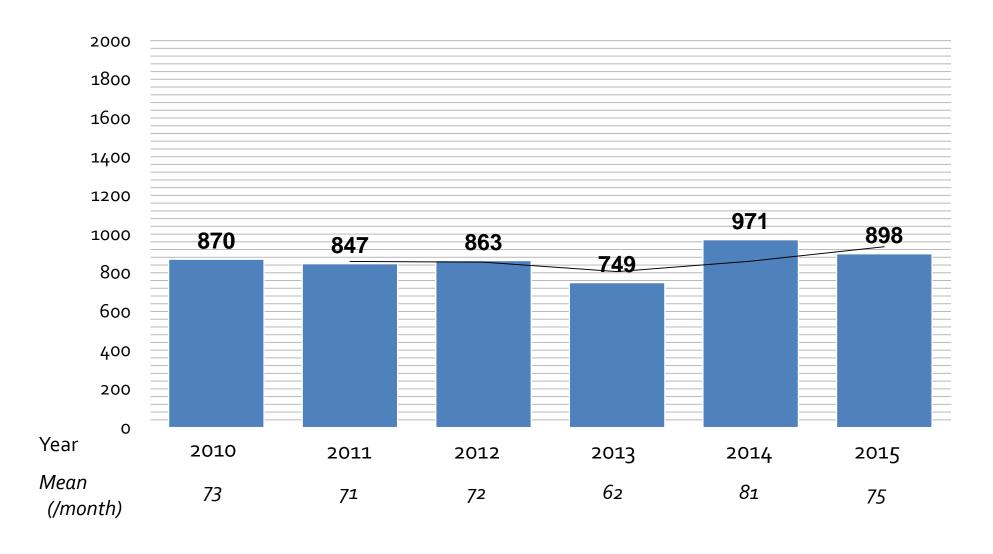
### Proportion of Total Visits

#### Made by DC Residents Age ≥65y

	ED Visits	Admissions
2010	84.7%	71.8%
2011	82.6%	74.2%
2012	80.5%	71.7%
2013	78.5%	68.9%
2014	80.2%	69.4%
2015	77.1%	71.2%
Total	80.6%	71.3%



## ED Visits for Asthma DC Zip Codes Only, Age ≥65y



# Hospital Admissions for Asthma *DC Zip Codes Only, Age* ≥65*y*

