

USING REAL-TIME AND POPULATION-BASED (CC360) DATA TO BUILD THE CARE BRIDGE

**Michigan Medicine Complex Care Management Program
Washtenaw County Community Mental Health Department**

MDHHS Practice Improvement Steering Committee (PISC)

June 7, 2018

GOALS

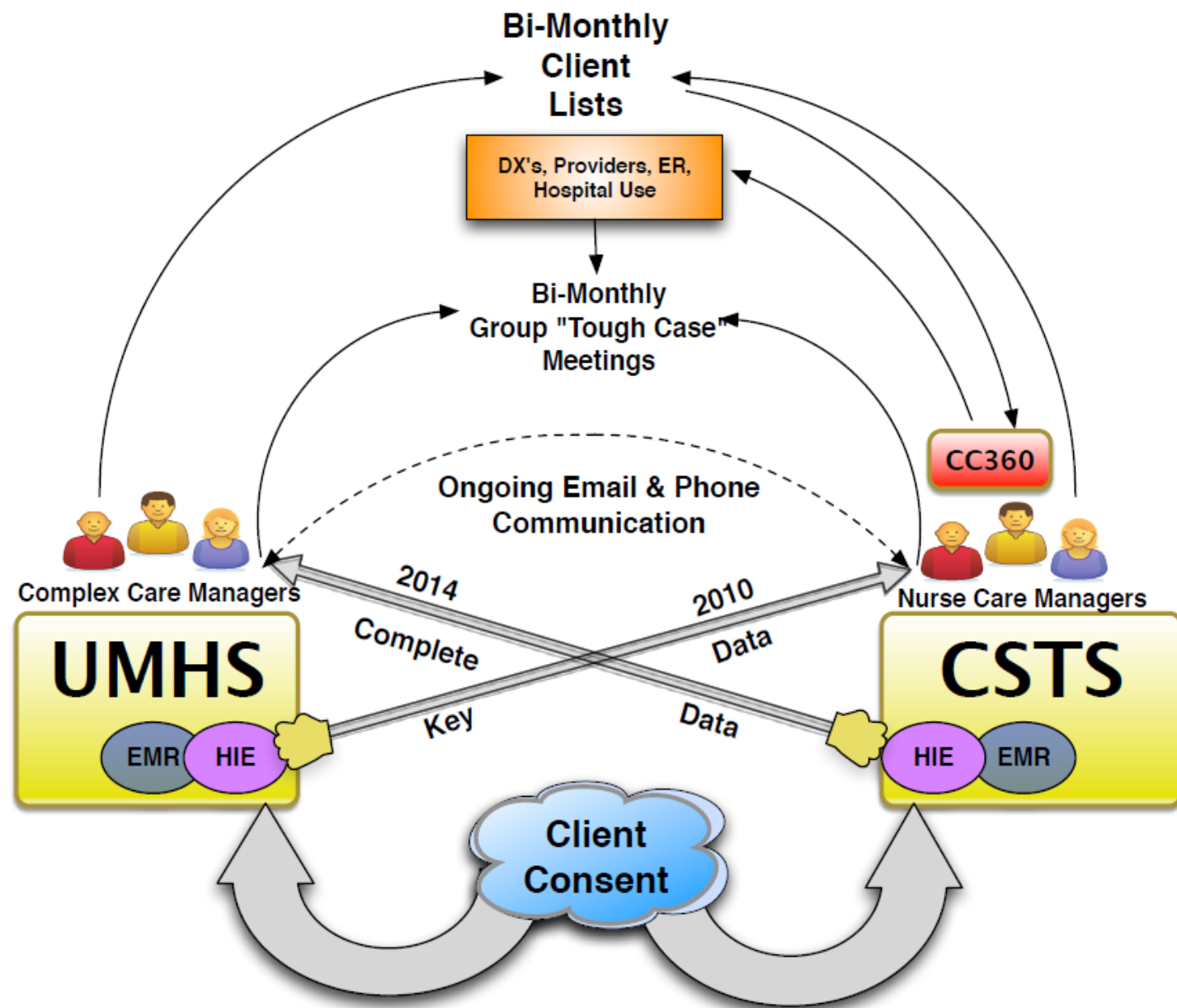
1. Describe UM-WCCMH use of CC360 in supporting our Care Bridge 2015-18. (“Washtenaw Project”)
2. Brainstorm opportunities and challenges in generalizing our lessons to other counties in Michigan.
3. Decide next steps for:
 - Washtenaw County
 - State-wide

MM COMPLEX CARE MANAGEMENT PROGRAM WASHTENAW COUNTY COMMUNITY MENTAL HEALTH

- Worked closely for over a decade
- Leadership meetings twice monthly (data review, strategic planning)
- Co-management of high-need patients (largely telephonic)

WASHTENAW CARE BRIDGES WORK LINES

- Create individual health care utilization and clinical profiles for collaborative care planning.
- Make possible routine access to behavioral health information for CMH clients across community health and social service agencies.
- Create population level reports describing CMH clients' care at Michigan Medicine (ER, Inpatient, Ambulatory sites).



December 2015 Utilization		ER visits					Physical health IP visits						
Case_No	HH_Bucket	ERs_3mos_ending_12_31_2014	ERs_3mos_ending_03_31_2015	ERs_3mos_ending_06_30_2015	ERs_3mos_ending_09_30_2015	ERs_3mos_ending_12_31_2015	IPs_3mos_ending_12_31_2014	IPs_3mos_ending_03_31_2015	IPs_3mos_ending_06_30_2015	IPs_3mos_ending_09_30_2015	IPs_3mos_ending_12_31_2015	CC360_BEHHEALTH_IPvis_last180	Recent_ADTs_not_in_CC360
1143394	Narcotic RX	8	11	6	5	9	2	1	0	0	1	0	
260438	COPD	15	14	10	11	8	2	2	1	2	0	0	5
12601	Narcotic RX	3	12	5	6	7	2	3	1	1	0	0	1
209478	Narcotic RX	1	3	5	4	6	0	0	1	0	0	0	2
11613	Hospital IP/ED	11	10	13	5	6	0	0	1	0	0	1	4
94891	Narcotic RX	1	1	3	6	6	0	0	0	0	0	0	
49485	Narcotic RX	7	3	3	5	5	2	1	1	3	0	0	
12916	CHF	1	0	0	1	4	0	0	0	1	1	0	

COMMUNITY-WIDE ACCESS TO BEHAVIORAL HEALTH INFORMATION FOR CMH CLIENTS

- Avalon housing *
- The Corner Health Center
- Delonis Homeless Shelter *
- Home of New vision
- IHA
- Jewish Family Services of Washtenaw County
- Livingston County Catholic Charities
- Michigan Medicine Complex Care Management program *
- Packard Health *
- Saint Joseph Mercy Health System Complex Care Program
- Washtenaw Health plan
- Washtenaw County Sheriff's Office
- Washtenaw County Juvenile Detention Center

* Denotes Original Pilot

CC360 DATA DEVELOPMENT – POPULATION PROFILES

- State, WCCMH, and MM documentation used to normalize CC360 data. Complicated process.
- Data serves to:
 - Identifying high-risk groups seen in a single health care system from the entire CC360 database.
 - Determine patterns of use in ER, Inpt, Outpt / Medical-Behavioral Health

CC360 DATA DEVELOPMENT – POPULATION PROFILES - CHALLENGES

- Consent process
- Data use agreements
- Cleaning data (eliminating duplicate and Data anomalies)
- No identifier for specific outpatient clinics or providers at UM
- Clustering diagnoses
- Behavioral health diagnoses not uniformly recorded.
 - Data matched to CMH EHR.
- Substance use disorder information

Health service utilization for the 2,388 WCCMH clients seen at UMHS in Calendar Year 2015

E17 : X ✓ fx 1										
	A	B	C	D	E	F	G	H	I	
1	uofm	location_combined	cases	events	median_events	avg_events	min_events	max_events	pct_events	
2	TRUE	Outpatient Hospital	1999	10034	3	5.0	1	53	48	
3	FALSE	Ambulance - Land	827	2123	1	2.6	1	45	4	
4	TRUE	Emergency Room - Hospital	858	2101	1	2.4	1	30	10	
5	TRUE	Inpatient Hospital	324	2011	3	6.2	1	63	10	
6	FALSE	Office	2340	12009	3	5.1	1	318	23	
7	FALSE	Home	559	12431	7	22.2	1	376	24	
8	TRUE	Home	393	2188	2	5.6	1	55	10	
9	TRUE	Office	1211	4099	2	3.4	1	27	19	
10	FALSE	Outpatient Hospital	1526	6789	2	4.4	1	66	13	
11	FALSE	Emergency Room - Hospital	1006	3940	2	3.9	1	110	8	
12	FALSE	Federally Qualified Health Center	127	277	2	2.2	1	11	1	
13	FALSE	Inpatient Hospital	411	4102	4	10.0	1	159	8	
14	FALSE	Group Home	33	663	5.5	30.1	1	343	1	

Figure 1. Utilization of UM health services by Washtenaw County Community Mental Health Clients

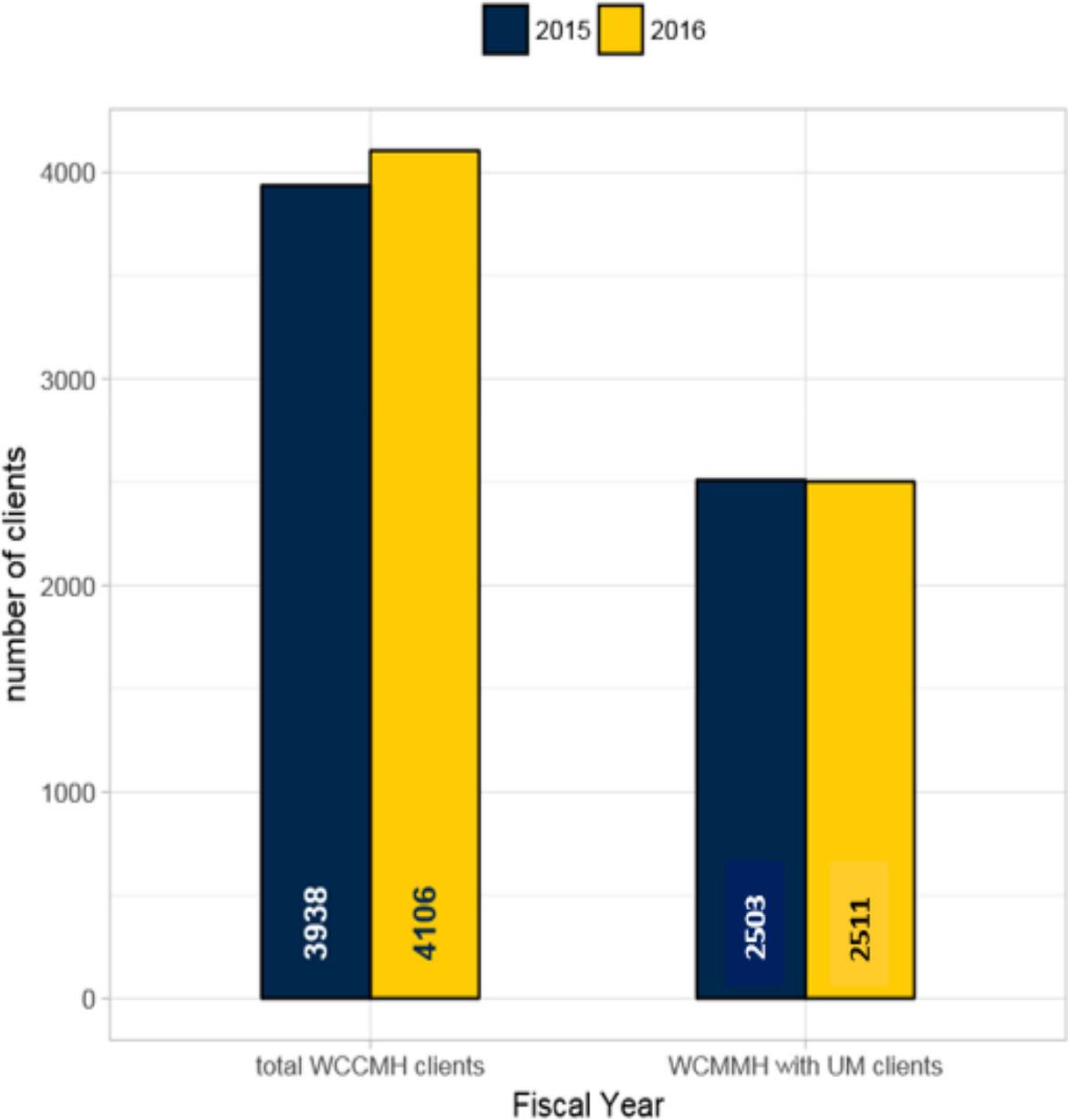


Figure 2. Age distribution of WCCMH clients who utilized UM health services ("UM-CMH clients") by fiscal year

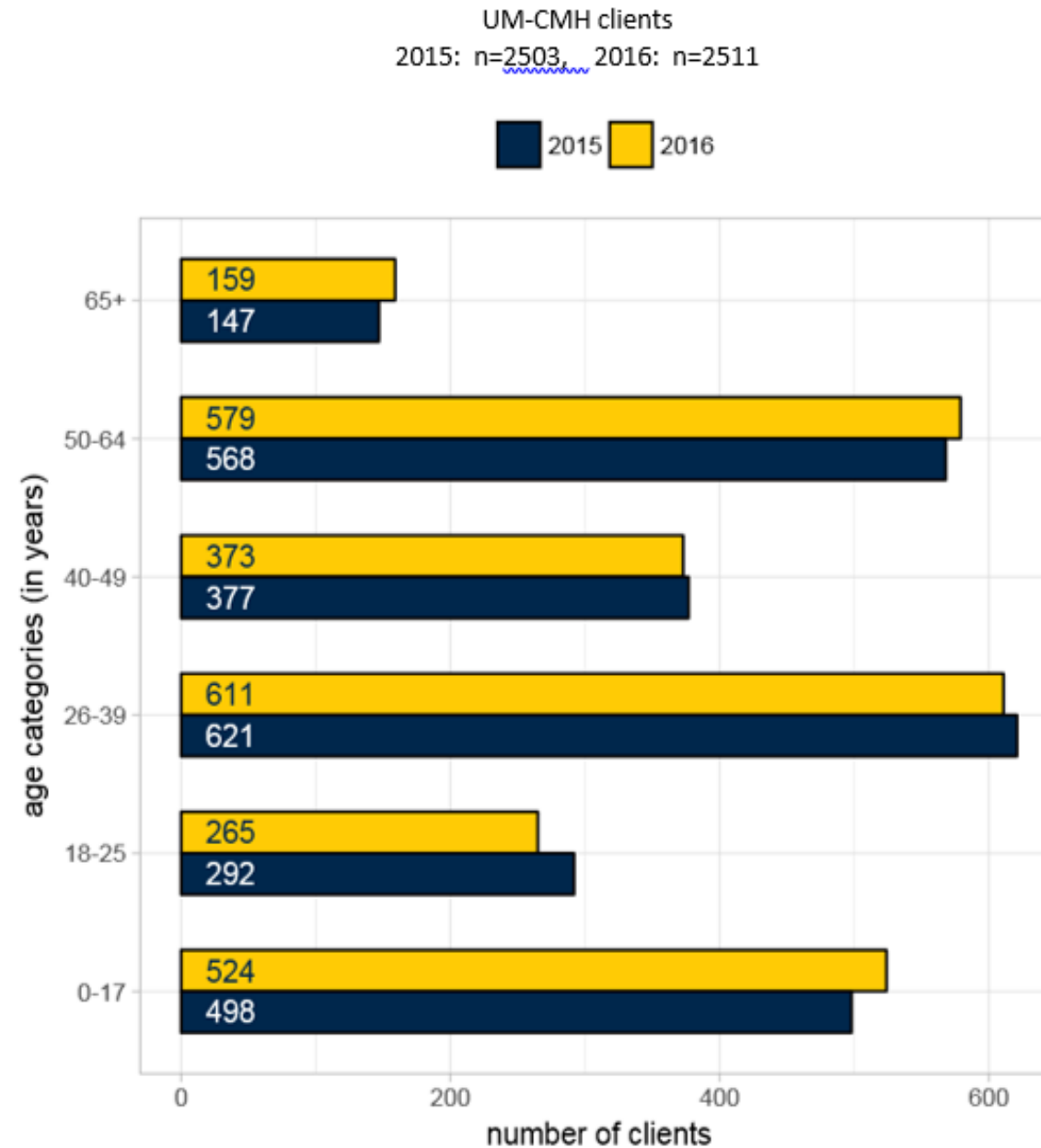


Figure 3. Emergency Room utilization among CMH clients with any UM utilization (UM-CMH clients) by fiscal year.

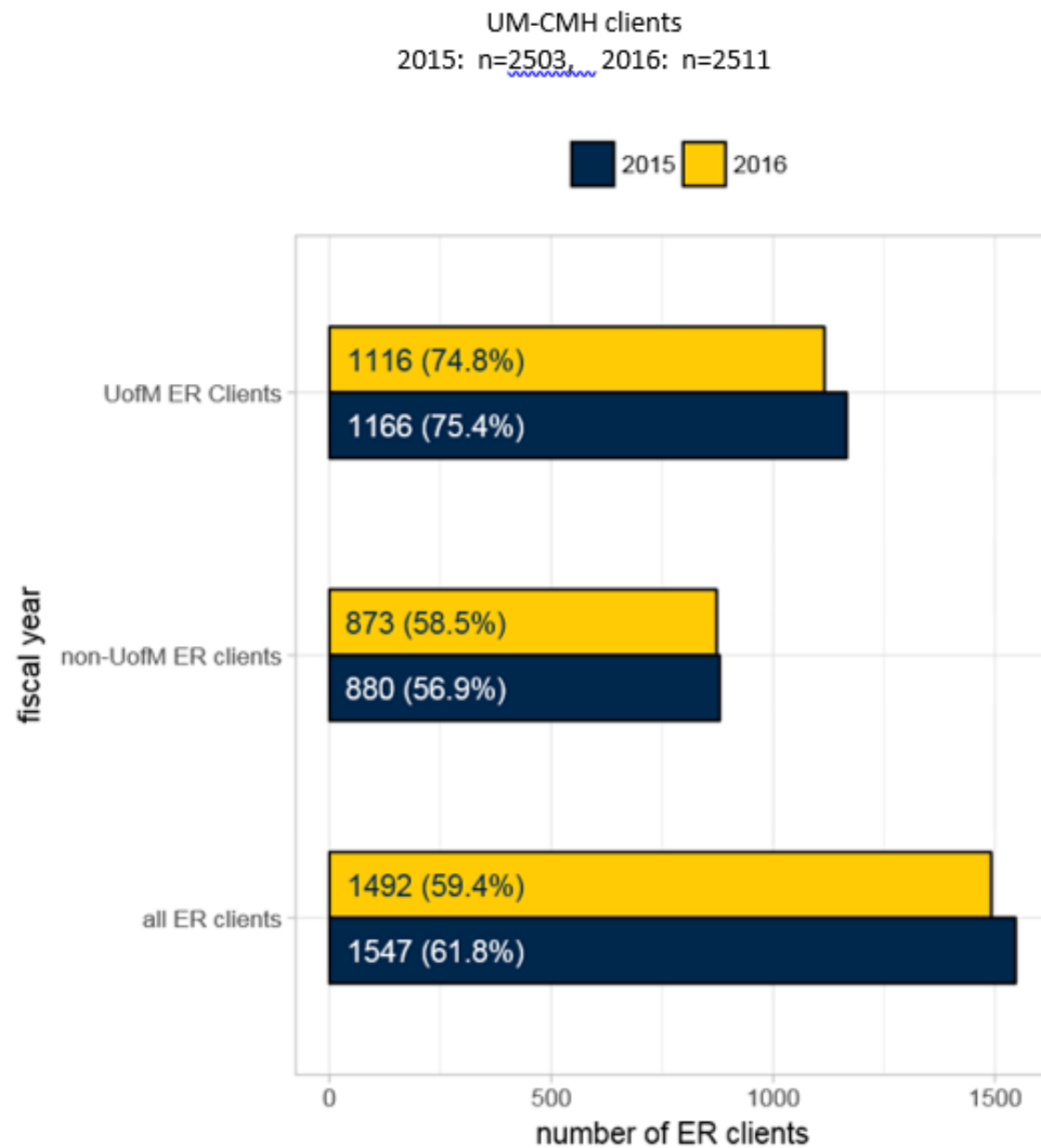
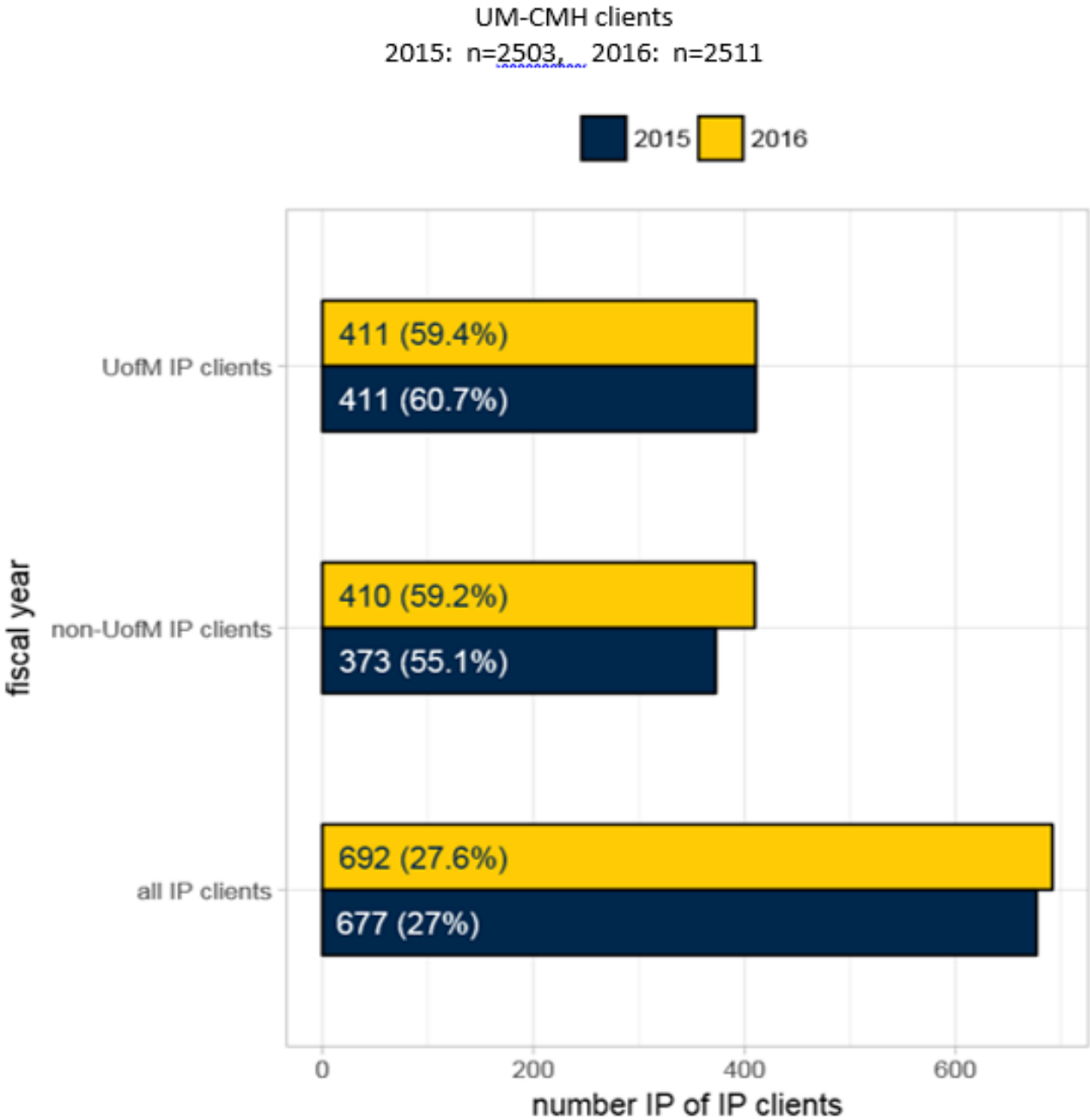


Figure 4. Inpatient utilization among CMH clients with any UM utilization ("UM-CMH clients").



OTHER FINDINGS

- For CMH clients who receive care at UM, a large portion of their care in health systems is related to behavioral health conditions.
- Example: In 2016, the 2503 CMH clients seen at MM:
 - Experienced a total of 7,378 ER visits
 - 1 / 5 (1,527, 20.7%) were behavioral health ER visits
 - 4 / 5 (5,927, 80.3%) were physical health ER visits
 - Experienced a total of 1,603 hospital stays
 - 2 / 5 (611, 38.1%) were behavioral health stays
 - 3 / 5 (992, 61.9%) were physical health stays

CURRENT ACTIVITIES

- Provide utilization and clinical profiles of high-utilizing or medically complex CMH patients to complex care managers, who sort them by clinic.
- At clinic sites, engage complex care managers, CMH health professionals, and PCP nurse Care Navigators in face-to-face patient review for patients seen at that clinic.
- Facilitate increased use of MiCare Connect by clinic personnel.

POTENTIAL FUTURE DIRECTIONS

- Integrate and expand activities into community-wide care management through the State Innovation Model (SIM)
 - High cost data user profiles to identify high-need, high utilizing clients
 - Expanded Care Bridge to include diverse community care managers in multidisciplinary care of WCCMH clients
 - Develop and capitalize on additional program development and evaluation opportunities now available under SIM

FUTURE DIRECTIONS – STATE INNOVATION MODEL (SIM)

- SIM is: Community-wide care management with:
 - Identification of high needs clients
 - Single information system with access by multiple agencies to select patients, begin joint care, and document progress towards goals.
 - Coordination with PCP sites who are now screening for patients with needs related to social determinants of health

ACKNOWLEDGEMENTS

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