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CESR: Social Needs Patient Reported Outcomes Surveys Added to the VDW

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What's going on?

[The Center for Effectiveness and Safety Research \(CESR\)](#) project, funded by Kaiser Permanente (KP), added two new social needs assessments to the Patient Reported Outcomes (PRO) tables in the CESR Virtual Data Warehouse (VDW).

1. **The Medicare Total Health Assessment (MTHA)** – Became part of clinical care across many KP regions in 2012
2. **The Your Current Life Situation (YCLS)** – Multi-regional pilot testing began in 2016 for specific programs (see tables below)

Why is this important?

Data is easier for researchers to access - Both assessments have been compiled into the CESR VDW tables. Previously, researchers wanting access to these data, searched multiple places, making it challenging to extract and organize the data. For example, in Clarity they examined questionnaire data, flowsheets and smart data elements (or smart data forms). In other instances, they may have contacted outside vendors (e.g., PTI). Finding all data sources

remains an ongoing challenge, so our CESR team partners with researchers across all regions and KP Operations to make these data as complete as possible.

The PRO tables include data for each survey administered, with variables such as:

- **Type of survey:** (YCLS, MTHA, PHQ9 (Patient Health Questionnaire, a depression screener), AUDIT (Alcohol Use Disorders Identification Test), GAD (Generalized Anxiety Disorder screener), etc.)
- **Question:** (e.g., In the past 3 months, how often have you worried that your food would run out before you had money to buy more?)
- **Response:** (e.g., Never, Sometimes, Often, Very Often)
- **Medical Record Number and Encounter ID:** gives users the ability to link to other VDW data (e.g., office visits, dispensings, diagnoses, etc.)
- **Survey mode:** (e.g., telephone, office visit, mail, web, etc.)

What can we expect?

Enhancing the social needs data in the VDW - Additional activities in 2018 are enhancing the social needs data in the VDW. A feasibility assessment survey was sent to each region's lead VDW data manager to determine other potential sources for these data. Some examples of these sources include:

- **CESR PRO data:** AUDIT data may include important related social needs information. The PHQ9 includes data for Kaiser Permanente patients who might be suffering from depression.
- **VDW Diagnosis and Procedure data:** Specific social needs diagnosis and procedure codes are being used in HealthConnect. These data are pulled into the VDW via the Diagnosis and Procedures tables.
- **Clarity Clinical Terms:** Providers enter clinical terms and they are cross walked into diagnosis codes. These clinical terms can have greater detail than a diagnosis code.

[Researchers at the Center for Health Research \(KPNW\)](#) believe that the PRO data we have captured is a great resource, although we continue to find additional sources that identify more patients with social needs. These include ICD-9 (v codes) and ICD-10 (z codes) which have been used for social needs diagnosis. Collectively, the use of PRO and ICD data enables KP researchers to assess social needs of KP members, as well as include these data in analyses, providing a rich and unique data source that is available at few other research institutions.

Medicare Total Health Assessment - Preliminary Counts in the CESR PRO Tables

SITE		2011	2012	2013	2014	2015	2016	2017	2018	TOTAL
KPCO	TAKERS	0	5108	12355	8855	7620	11863	13483	2434	61718
	ADMD	0	5122	12450	8949	7655	12000	13724	2458	62358
KPGA	TAKERS	0	262	1967	3023	4602	4279	5524	1492	21149
	ADMD	0	263	1998	3135	4759	4415	5535	1492	21597
KPHI	TAKERS	56	798	1665	2854	4898	6717	6631	1780	25399
	ADMD	56	799	1667	2859	5103	7282	7456	2010	27232
KPMA	TAKERS	0	346	27	0	0	10	0	0	383
	ADMD	0	346	27	0	0	10	0	0	383
KPNC	TAKERS	0	10	4	218	337	360	293	73	1295
	ADMD	0	10	4	218	337	360	293	73	1295
KPNW	TAKERS	0	75	7507	15291	12245	10878	10809	2337	59142
	ADMD	0	75	7869	16089	13153	11646	11649	2350	62831
KPSC	TAKERS	14	273	301	196	251	175	362	180	1752
	ADMD	14	273	301	196	251	175	363	180	1753
TOTAL	TAKERS	70	6872	23826	30437	29953	34282	37102	8296	170838
	ADMD	70	6888	24316	31446	31258	35888	39020	8563	177449

- Takers = Total Count of Members with questionnaires
- ADMD = Total Count of Questionnaires administered (at least 1 question answered)
- 2018 contains data through March 2018

Your Current Life Situation – Preliminary Counts in the CESR PRO Tables

SITE		2016	2017	2018	TOTAL
KPCO	TAKERS	212	1451	413	2076
	ADMD	212	1475	414	2101
KPMA	TAKERS		5578	7407	12985
	ADMD		7069	10080	17149
KPNC	TAKERS		295	261	556
	ADMD		296	262	558
KPNW	TAKERS		2806	1380	4186
	ADMD		2889	1398	4287
KPSC	TAKERS		195	154	349
	ADMD		196	154	350
TOTAL	TAKERS	212	10325	9615	20152
	ADMD	212	11925	12308	24445

- Takers = Total Count of Members with questionnaires
- ADMD = Total Count of Questionnaires administered (at least 1 question answered)
- 2018 contains data through March 2018

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