Support for MACRA Physician-focused Payment Model Technical Advisory Committee	
PRT Data Request for Dialyze Direct Proposal: List of Tables	
Table 1:	Number of Medicare Fee-for-Service Beneficiaries Receiving Dialysis in 2016, by Setting and Type of Dialysis
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Appendix 1:	Dialysis Modalities: Methods

Setting	Hemodialysis	Peritoneal Dialysis	Continuous Ambulatory Peritoneal Dialysis (CAPD)	Continuous Cycling Peritoneal Dialysis (CCPD)
Inpatient	272,881	6,147	4,703	6,614
Community	342,838	639	12,742	36,865
Nursing Facility	50,434	18	200	1,106
SNF	62,851	16	249	1,265

Table 1. Number of Medicare Fee-for-Service Beneficiaries Receiving Dialysis in 2016, by Setting and Type of Dialysis

SOURCE: Tabulation of CCW 2016 RIFs (Inpatient, Outpatient, and SNF Claims) and 2016 MDS Assessment File.

Notes.

1. Any given beneficiary can appear with more than one type of dialysis, and in more than one type of residence.

2. Nursing facility residence is determined from a timeline based on tabulation of 2016 MDS records

3. SNF residence is determined based on tabulation of SNF stays from CCW SNF claims.

4. Community residence is determined if beneficiaries are not identified as NF/SNF residents but they are identified as dialysis patient from outpatient claims.

		Facilities with 8+ dialysis patients in at least 3 months			Facilities Certified as Medicare/Medicaid SNF/NF Provider (Denominator)	Proportion
Hospital Referral Region		**Total**	**No Nearby ESRD***	**Nearby ESRD**		
303	Manhattan, NY	16	11	5	146	0.11
56	Los Angeles, CA	14	14	0	690	0.02
223	Baltimore, MD	14	5	9	275	0.05
156	Chicago, IL	13	13	0	258	0.05
289	Newark, NJ	13	13	0	120	0.11
356	Philadelphia, PA	13	10	3	435	0.03
301	East Long Island, NY	12	3	9	184	0.07
113	Washington, DC	8	4	4	182	0.04
144	Atlanta, GA	8	8	0	387	0.02
155	Blue Island, IL	7	6	1	103	0.07
161	Evanston, IL	7	7	0	126	0.06
234	Detroit, MI	7	7	0	178	0.04
283	Camden, NJ	7	4	3	313	0.02
328	Cleveland, OH	7	6	1	385	0.02
397	Houston, TX	7	7	0	634	0.01
127	Miami, FL	6	6	0	138	0.04
297	Bronx, NY	6	3	3	57	0.11
166	Melrose Park, IL	5	5	0	110	0.05
232	Ann Arbor, MI	5	5	0	133	0.04
12	Phoenix, AZ	4	4	0	127	0.03
80	San Diego, CA	4	4	0	151	0.03
118	Fort Lauderdale, FL	4	4	0	171	0.02
273	St. Louis, MO	4	4	0	737	0.01
284	Hackensack, NJ	4	2	2	96	0.04
307	Syracuse, NY	4	3	1	74	0.05

Table 1b. Number and Proportion of SNFs and NFs with 8 or More Beneficiaries Receiving Dialysis in at Least 3 Months out of 12 Months, CY2016, by Hospital Referral Region

357	Pittsburgh, PA	4	4	0	365	0.01
81	San Francisco, CA	3	3	0	85	0.04
163	Hinsdale, IL	3	3	0	33	0.09
226	Takoma Park, MD	3	1	2	57	0.05
233	Dearborn, MI	3	3	0	27	0.11
235	Flint, MI	3	3	0	47	0.06
285	Morristown, NJ	3	3	0	91	0.03
299	Buffalo, NY	3	2	1	127	0.02
308	White Plains, NY	3	1	2	67	0.04
391	Dallas, TX	3	3	0	690	0.00
412	San Antonio, TX	3	3	0	330	0.01
11	Mesa, AZ	2	2	0	31	0.06
25	Bakersfield, CA	2	2	0	62	0.03
82	San Jose, CA	2	2	0	95	0.02
85	San Mateo County, CA	2	2	0	42	0.05
123	Jacksonville, FL	2	2	0	164	0.01
130	Orlando, FL	2	2	0	228	0.01
164	Joliet, IL	2	2	0	64	0.03
183	Indianapolis, IN	2	2	0	578	0.00
205	Louisville, KY	2	1	1	272	0.01
245	Royal Oak, MI	2	2	0	35	0.06
259	Jackson, MS	2	2	0	227	0.01
288	New Brunswick, NJ	2	2	0	79	0.03
291	Paterson, NJ	2	2	0	50	0.04
304	Rochester, NY	2	2	0	96	0.02
329	Columbus, OH	2	0	2	540	0.00
335	Youngstown, OH	2	2	0	154	0.01
366	Columbia, SC	2	2	0	107	0.02
373	Chattanooga, TN	2	2	0	75	0.03
379	Memphis, TN	2	2	0	249	0.01
430	Norfolk, VA	2	2	0	87	0.02

Unknown	Unknown	2	2	0	390	0.01
7	Montgomery, AL	1	1	0	46	0.02
9	Tuscaloosa, AL	1	1	0	32	0.03
19	Little Rock, AR	1	0	1	468	0.00
23	Orange County, CA	1	1	0	123	0.01
77	Sacramento, CA	1	1	0	121	0.01
79	San Bernardino, CA	1	1	0	123	0.01
110	Hartford, CT	1	0	1	201	0.00
111	New Haven, CT	1	1	0	196	0.01
112	Wilmington, DE	1	1	0	80	0.01
120	Gainesville, FL	1	1	0	49	0.02
142	Albany, GA	1	1	0	22	0.05
145	Augusta, GA	1	1	0	105	0.01
146	Columbus, GA	1	1	0	42	0.02
150	Honolulu, HI	1	1	0	87	0.01
154	Aurora, IL	1	1	0	24	0.04
158	Elgin, IL	1	1	0	47	0.02
171	Rockford, IL	1	1	0	169	0.01
191	Davenport, IA	1	1	0	103	0.01
192	Des Moines, IA	1	1	0	361	0.00
218	New Orleans, LA	1	1	0	107	0.01
225	Salisbury, MD	1	1	0	51	0.02
230	Springfield, MA	1	0	1	151	0.01
254	St. Cloud, MN	1	1	0	57	0.02
258	Hattiesburg, MS	1	1	0	60	0.02
261	Oxford, MS	1	1	0	27	0.04
268	Kansas City, MO	1	1	0	553	0.00
278	Omaha, NE	1	1	0	365	0.00
279	Las Vegas, NV	1	1	0	67	0.01
296	Binghamton, NY	1	1	0	31	0.03
300	Elmira, NY	1	0	1	40	0.03

311	Charlotte, NC	1	1	0	154	0.01
318	Raleigh, NC	1	1	0	106	0.01
320	Winston-Salem, NC	1	1	0	106	0.01
325	Akron, OH	1	1	0	92	0.01
326	Canton, OH	1	1	0	156	0.01
330	Dayton, OH	1	1	0	233	0.00
331	Elyria, OH	1	1	0	33	0.03
346	Allentown, PA	1	1	0	106	0.01
352	Harrisburg, PA	1	1	0	134	0.01
354	Johnstown, PA	1	0	1	35	0.03
355	Lancaster, PA	1	1	0	74	0.01
360	Scranton, PA	1	1	0	42	0.02
365	Charleston, SC	1	1	0	64	0.02
368	Greenville, SC	1	1	0	78	0.01
385	Austin, TX	1	1	0	188	0.01
393	El Paso, TX	1	1	0	62	0.02
396	Harlingen, TX	1	1	0	43	0.02
426	Arlington, VA	1	0	1	60	0.02
428	Lynchburg, VA	1	1	0	28	0.04
429	Newport News, VA	1	1	0	43	0.02
432	Roanoke, VA	1	1	0	90	0.01
451	Milwaukee, WI	1	1	0	402	0.00
1	Birmingham, AL	0	0	0	254	0.00
2	Dothan, AL	0	0	0	38	0.00
5	Huntsville, AL	0	0	0	43	0.00
6	Mobile, AL	0	0	0	89	0.00
10	Anchorage, AK	0	0	0	42	0.00
14	Sun City, AZ	0	0	0	24	0.00
15	Tucson, AZ	0	0	0	47	0.00
16	Fort Smith, AR	0	0	0	104	0.00
18	Jonesboro, AR	0	0	0	61	0.00

21	Springdale, AR	0	0	0	92	0.00
22	Texarkana, AR	0	0	0	111	0.00
31	Chico, CA	0	0	0	25	0.00
33	Contra Costa County, CA	0	0	0	52	0.00
43	Fresno, CA	0	0	0	72	0.00
58	Modesto, CA	0	0	0	51	0.00
62	Napa, CA	0	0	0	30	0.00
65	Alameda County, CA	0	0	0	156	0.00
69	Palm Springs/Rancho Mira, CA	0	0	0	16	0.00
73	Redding, CA	0	0	0	22	0.00
78	Salinas, CA	0	0	0	20	0.00
83	San Luis Obispo, CA	0	0	0	20	0.00
86	Santa Barbara, CA	0	0	0	29	0.00
87	Santa Cruz, CA	0	0	0	18	0.00
89	Santa Rosa, CA	0	0	0	37	0.00
91	Stockton, CA	0	0	0	31	0.00
96	Ventura, CA	0	0	0	36	0.00
101	Boulder, CO	0	0	0	22	0.00
102	Colorado Springs, CO	0	0	0	130	0.00
103	Denver, CO	0	0	0	314	0.00
104	Fort Collins, CO	0	0	0	31	0.00
105	Grand Junction, CO	0	0	0	63	0.00
106	Greeley, CO	0	0	0	60	0.00
107	Pueblo, CO	0	0	0	32	0.00
109	Bridgeport, CT	0	0	0	56	0.00
115	Bradenton, FL	0	0	0	18	0.00
116	Clearwater, FL	0	0	0	41	0.00
119	Fort Myers, FL	0	0	0	63	0.00
122	Hudson, FL	0	0	0	19	0.00
124	Lakeland, FL	0	0	0	27	0.00
129	Ocala, FL	0	0	0	21	0.00

131	Ormond Beach, FL	0	0	0	27	0.00
133	Panama City, FL	0	0	0	28	0.00
134	Pensacola, FL	0	0	0	66	0.00
137	Sarasota, FL	0	0	0	46	0.00
139	St. Petersburg, FL	0	0	0	99	0.00
140	Tallahassee, FL	0	0	0	127	0.00
141	Tampa, FL	0	0	0	90	0.00
147	Macon, GA	0	0	0	213	0.00
148	Rome, GA	0	0	0	52	0.00
149	Savannah, GA	0	0	0	139	0.00
151	Boise, ID	0	0	0	85	0.00
152	Idaho Falls, ID	0	0	0	21	0.00
170	Peoria, IL	0	0	0	154	0.00
172	Springfield, IL	0	0	0	292	0.00
173	Urbana, IL	0	0	0	134	0.00
175	Bloomington, IL	0	0	0	57	0.00
179	Evansville, IN	0	0	0	233	0.00
180	Fort Wayne, IN	0	0	0	220	0.00
181	Gary, IN	0	0	0	85	0.00
184	Lafayette, IN	0	0	0	53	0.00
185	Muncie, IN	0	0	0	43	0.00
186	Munster, IN	0	0	0	26	0.00
187	South Bend, IN	0	0	0	122	0.00
188	Terre Haute, IN	0	0	0	52	0.00
190	Cedar Rapids, IA	0	0	0	57	0.00
193	Dubuque, IA	0	0	0	38	0.00
194	Iowa City, IA	0	0	0	102	0.00
195	Mason City, IA	0	0	0	74	0.00
196	Sioux City, IA	0	0	0	114	0.00
197	Waterloo, IA	0	0	0	71	0.00
200	Topeka, KS	0	0	0	172	0.00

201	Wichita, KS	0	0	0	520	0.00
203	Covington, KY	0	0	0	34	0.00
204	Lexington, KY	0	0	0	199	0.00
207	Owensboro, KY	0	0	0	25	0.00
208	Paducah, KY	0	0	0	94	0.00
209	Alexandria, LA	0	0	0	102	0.00
210	Baton Rouge, LA	0	0	0	139	0.00
212	Houma, LA	0	0	0	43	0.00
213	Lafayette, LA	0	0	0	120	0.00
214	Lake Charles, LA	0	0	0	46	0.00
216	Metairie, LA	0	0	0	43	0.00
217	Monroe, LA	0	0	0	95	0.00
219	Shreveport, LA	0	0	0	185	0.00
220	Slidell, LA	0	0	0	25	0.00
221	Bangor, ME	0	0	0	103	0.00
222	Portland, ME	0	0	0	206	0.00
227	Boston, MA	0	0	0	928	0.00
231	Worcester, MA	0	0	0	183	0.00
236	Grand Rapids, MI	0	0	0	106	0.00
238	Kalamazoo, MI	0	0	0	81	0.00
239	Lansing, MI	0	0	0	68	0.00
240	Marquette, MI	0	0	0	43	0.00
242	Muskegon, MI	0	0	0	32	0.00
243	Petoskey, MI	0	0	0	24	0.00
244	Pontiac, MI	0	0	0	25	0.00
246	Saginaw, MI	0	0	0	88	0.00
248	St. Joseph, MI	0	0	0	17	0.00
249	Traverse City, MI	0	0	0	31	0.00
250	Duluth, MN	0	0	0	93	0.00
251	Minneapolis, MN	0	0	0	669	0.00
253	Rochester, MN	0	0	0	148	0.00

256	St. Paul, MN	0	0	0	178	0.00
257	Gulfport, MS	0	0	0	20	0.00
260	Meridian, MS	0	0	0	55	0.00
262	Tupelo, MS	0	0	0	72	0.00
263	Cape Girardeau, MO	0	0	0	106	0.00
264	Columbia, MO	0	0	0	235	0.00
267	Joplin, MO	0	0	0	123	0.00
270	Springfield, MO	0	0	0	196	0.00
274	Billings, MT	0	0	0	128	0.00
275	Great Falls, MT	0	0	0	41	0.00
276	Missoula, MT	0	0	0	79	0.00
277	Lincoln, NE	0	0	0	188	0.00
280	Reno, NV	0	0	0	54	0.00
281	Lebanon, NH	0	0	0	86	0.00
282	Manchester, NH	0	0	0	109	0.00
292	Ridgewood, NJ	0	0	0	27	0.00
293	Albuquerque, NM	0	0	0	142	0.00
295	Albany, NY	0	0	0	167	0.00
309	Asheville, NC	0	0	0	78	0.00
312	Durham, NC	0	0	0	124	0.00
313	Greensboro, NC	0	0	0	44	0.00
314	Greenville, NC	0	0	0	65	0.00
315	Hickory, NC	0	0	0	21	0.00
319	Wilmington, NC	0	0	0	36	0.00
321	Bismarck, ND	0	0	0	68	0.00
322	Fargo/Moorhead MN, ND	0	0	0	169	0.00
323	Grand Forks, ND	0	0	0	68	0.00
324	Minot, ND	0	0	0	38	0.00
327	Cincinnati, OH	0	0	0	351	0.00
332	Kettering, OH	0	0	0	68	0.00
334	Toledo, OH	0	0	0	196	0.00

336	Lawton, OK	0	0	0	70	0.00
339	Oklahoma City, OK	0	0	0	564	0.00
340	Tulsa, OK	0	0	0	325	0.00
341	Bend, OR	0	0	0	14	0.00
342	Eugene, OR	0	0	0	68	0.00
343	Medford, OR	0	0	0	34	0.00
344	Portland, OR	0	0	0	271	0.00
345	Salem, OR	0	0	0	24	0.00
347	Altoona, PA	0	0	0	36	0.00
350	Danville, PA	0	0	0	90	0.00
351	Erie, PA	0	0	0	120	0.00
358	Reading, PA	0	0	0	60	0.00
359	Sayre, PA	0	0	0	21	0.00
362	Wilkes-Barre, PA	0	0	0	35	0.00
363	York, PA	0	0	0	29	0.00
364	Providence, RI	0	0	0	251	0.00
367	Florence, SC	0	0	0	44	0.00
369	Spartanburg, SC	0	0	0	37	0.00
370	Rapid City, SD	0	0	0	51	0.00
371	Sioux Falls, SD	0	0	0	390	0.00
374	Jackson, TN	0	0	0	71	0.00
375	Johnson City, TN	0	0	0	55	0.00
376	Kingsport, TN	0	0	0	53	0.00
377	Knoxville, TN	0	0	0	146	0.00
380	Nashville, TN	0	0	0	321	0.00
382	Abilene, TX	0	0	0	137	0.00
383	Amarillo, TX	0	0	0	121	0.00
386	Beaumont, TX	0	0	0	95	0.00
388	Bryan, TX	0	0	0	46	0.00
390	Corpus Christi, TX	0	0	0	95	0.00
394	Fort Worth, TX	0	0	0	304	0.00

399	Longview, TX	0	0	0	64	0.00
400	Lubbock, TX	0	0	0	184	0.00
402	McAllen, TX	0	0	0	41	0.00
406	Odessa, TX	0	0	0	67	0.00
411	San Angelo, TX	0	0	0	52	0.00
413	Temple, TX	0	0	0	98	0.00
416	Tyler, TX	0	0	0	217	0.00
417	Victoria, TX	0	0	0	54	0.00
418	Waco, TX	0	0	0	124	0.00
420	Wichita Falls, TX	0	0	0	84	0.00
421	Ogden, UT	0	0	0	41	0.00
422	Provo, UT	0	0	0	57	0.00
423	Salt Lake City, UT	0	0	0	204	0.00
424	Burlington, VT	0	0	0	68	0.00
427	Charlottesville, VA	0	0	0	64	0.00
431	Richmond, VA	0	0	0	134	0.00
435	Winchester, VA	0	0	0	45	0.00
437	Everett, WA	0	0	0	88	0.00
438	Olympia, WA	0	0	0	47	0.00
439	Seattle, WA	0	0	0	313	0.00
440	Spokane, WA	0	0	0	222	0.00
441	Tacoma, WA	0	0	0	65	0.00
442	Yakima, WA	0	0	0	56	0.00
443	Charleston, WV	0	0	0	137	0.00
444	Huntington, WV	0	0	0	45	0.00
445	Morgantown, WV	0	0	0	64	0.00
446	Appleton, WI	0	0	0	84	0.00
447	Green Bay, WI	0	0	0	118	0.00
448	La Crosse, WI	0	0	0	119	0.00
449	Madison, WI	0	0	0	205	0.00
450	Marshfield, WI	0	0	0	95	0.00

452	Neenah, WI	0	0	0	48	0.00
456	Wausau, WI	0	0	0	47	0.00
457	Casper, WY	0	0	0	48	0.00
Total	Total	327	272	55	38724	0.01

Source: 2016 Minimum Data Set (MDS) Assessment File and 2016 Provider of Service File.

Note.

1. Beneficiaries with dialysis were identified by one of 2 fields:

(1) o0100j1_dlys_prior_cd (resident received dialysis within the last 14 days while not a resident of this facility) and (2) o0100j2_dlys_post_cd (resident received dialysis within the last 14 days while a resident of this facility)

2. Beneficiary months were tabulated by the facility CCN. If more than 7 beneficiaries in a month were flagged, the month was considered a potential for the model.

3. Facility information was mapped from the Provider of Service file. Hospital Referral Region was mapped to the facility by the POS ZIP Code.

4. A "nearby ESRD facility" was determined by an identical address or by the same street name and a number address within 200 of the facility. For example, "200 Field Street" was deemed nearby to "160 Field Street." This algorithm obviously misses facilities on cross streets.

Appendix 1. Methods Identifying Dialysis Patients by Modality and Facilities with More Than 7 Patients in Medicare

Methods: By using the Medicare fee-for-service (FFS) research identifiable files (RIFs) and Minimum Data Set (MDS) assessment file, we identified Medicare beneficiaries who received at least one type of dialysis with a corresponding revenue code[1] in 2016. Inpatients were identified from the inpatient claims. Nursing facility residence was determined from a timeline based on tabulation of 2016 MDS records. SNF residence is determined based on tabulation of SNF stays from CCW SNF claims. Community residence was determined if beneficiaries were not identified as NF/SNF residents from the previous steps but if they were identified as dialysis patients from outpatient claims. Next, in order to calculate the proportion of SNFs/NFs which had at least 8 patients getting dialysis, we used the 2016 MDS file again and identified dialysis patients from two fields (resident received dialysis within the last 14 days while not a resident of this facility as well as resident received dialysis within the last 14 days while a resident of this facility) in the file. If one of the two fields was flagged as present, it was considered as potential dialysis patients. Then, by aggregating the unit of analysis at the facility (CCN) level (mapping to provider of service file), we indicated SNF/NF facilities with more than 7 beneficiaries receiving a dialysis in a month as a potential for the model. Finally, if the facility retained more than 7 beneficiaries for at least 3 months, we counted them as numerators. A "nearby ESRD facility" was determined by an identical address or by the same street name and a number address within 200 of the facility. For example, "200 Field Street" was deemed nearby to "160 Field Street." This algorithm obviously misses facilities on cross streets. We present the distribution of SNF/NF facilties that had more than 7 dialysis patients in at least 3 months by Hospital Referral Region.

Caveat: The potential undercount of dialysis-months when using the MDS may occur because not all residents are assessed monthly. So a resident could have been dialyzed in February, but an assessment is conducted in January and again in March, and the 14-day windows for the dialysis question don't reach the February service dates.

[1] Dialysis Revenue Center Code

Claim Type	Revenue Code
Inpatient/SNF	080x
Outpatient	082x-085x

[2] Description of Dialysis Modalities

Type of Dialysis	Description	Note
Hemodialysis	A waste removal process performed necessary when the body's own kidneys have failed. Waste is removed directly from the blood.	
Peritoneal Dialysis	A waste removal process performed necessary when the body's own kidneys have failed. Waste is removed indirectly by instilling a special solution into the abdomen using the peritoneal membrane as a filter.	
CAPD	A continuous dialysis process, which uses the patient's peritoneal membrane as a dialyzer.	It uses liquid called dialysate, which is contained in prepared sterile bags. The patient attaches tubing in the shape of a Y with two bags attached to his/her catheter. One of the bags is empty; the other contains dialysate. The empty bag is used to drain off used dialysate fluid and waste products. Then the bag containing the fluid is drained into the patient's peritoneum and left in for three to six hours while the dialysis process takes place. Once the clean fluid has drained into the patient, he/she clamps or caps off the catheter. The bags and Y-tubing are removed and discarded. The patient repeats this process three to five times a day, every day.
CCPD	A continuous dialysis process, which uses the patient's peritoneal membrane as a dialyzer.	Exchanges are performed while the patient sleeps. A machine, called a cycler, does four functions: it warms, fills, drains, and weighs the solution at timed intervals throughout the night.