

SUPPLEMENTAL DIGITAL CONTENT 3: Longitudinal analyses, 2006-2016

Supplemental Digital Content 3a: Characteristics of community-dwelling Medicare beneficiaries, 2006-2016

Characteristic	Year N=	Enrollees under 65 y										Enrollees 65 y and over									
		2006	2007	2008	2009	2010	2011	2012	2013	2015	2016	2006	2007	2008	2009	2010	2011	2012	2013	2015	2016
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Age, y</b>																					
≤54		51.6	52.3	51.5	54.1	51.2	51.5	49.1	49.1	45.6	44.6										
55-64		48.4	47.7	48.5	45.9	48.8	48.5	50.9	50.9	54.4	55.4										
65-74												50.3	50.8	51.6	52.1	52.6	53.0	54.3	55.1	56.5	57.1
75-84												37.3	36.5	35.3	34.3	34.1	33.3	32.7	31.9	31.2	30.8
≥85												12.3	12.7	13.2	13.5	13.3	13.7	13.0	13.0	12.2	12.1
<b>Sex</b>																					
Male		51.9	52.4	52.3	52.8	52.4	52.5	51.3	52.9	50.3	50.0	43.5	43.5	43.8	43.8	43.8	43.6	44.1	44.6	44.0	44.7
Female		48.1	47.6	47.7	47.2	47.6	47.5	48.7	47.1	49.7	50.0	56.5	56.5	56.2	56.2	56.2	56.4	55.9	55.4	56.0	55.3
<b>Household income, \$</b>																					
< \$25K		72.4	71.1	67.5	69.6	69.9	69.9	69.7	71.8	70.3	69.9	45.5	43.8	42.2	40.4	39.6	38.2	37.2	36.1	37.6	35.6
> \$50K		24.4	25.9	28.4	26.7	27.3	27.6	27.4	26.3	29.7	30.1	49.6	51.1	53.2	54.6	55.2	56.8	58.2	59.6	62.4	64.4
<b>Education</b>																					
No high school diploma		29.2	28.4	28.8	26.3	25.5	24.1	22.5	22.0	21.1	21.0	25.9	25.0	23.5	22.8	22.3	21.6	20.6	18.7	16.7	16.4
High school diploma		33.4	33.7	33.4	33.3	32.7	31.8	32.7	31.6	35.7	35.0	30.2	30.3	30.5	29.2	28.0	27.6	26.9	27.2	26.0	25.6
Some college		28.2	28.9	29.1	31.4	33.1	34.4	35.0	36.5	34.2	33.3	25.4	25.6	26.2	26.7	27.5	27.1	28.3	29.0	29.5	28.6
Bachelors and above		8.5	8.2	8.1	8.4	8.1	9.2	9.2	9.5	8.6	10.1	18.0	18.5	19.4	20.9	21.8	23.2	23.7	24.7	27.3	28.9
<b>Race</b>																					
White		72.9	72.7	72.2	70.8	70.8	71.8	69.5	68.8	70.6	70.2	85.8	85.3	85.1	85.1	84.9	85.0	84.3	84.0	82.4	82.7
African American		18.7	18.5	18.8	19.4	18.3	18.5	18.5	19.0	18.4	18.1	7.7	7.7	8.2	8.0	8.2	8.1	8.0	8.3	8.4	8.9
All Other		8.2	8.5	8.6	9.3	10.5	9.1	11.1	10.9	9.4	9.1	6.2	6.5	6.4	6.5	6.5	6.5	7.0	7.1	8.2	6.9
<b>Hispanic ethnicity</b>																					
Not Hispanic		89.1	88.8	88.2	87.9	88.2	87.4	86.8	85.4	87.1	87.8	92.7	92.4	92.4	92.1	91.7	91.1	90.5	90.9	90.9	91.5
Hispanic		10.8	11.1	11.6	12.1	11.5	12.3	13.1	14.3	12.6	11.6	7.2	7.3	7.4	7.7	8.0	8.6	9.1	8.7	8.6	8.0
<b>General health status</b>																					
Excellent, very good, or good		40.6	39.1	40.5	40.5	42.3	40.5	40.7	36.8	42.2	42.8	78.9	78.3	79.3	80.5	80.3	80.5	80.7	81.0	80.6	82.0
Fair or poor		59.0	60.4	58.9	58.9	57.4	59.0	58.8	62.8	56.8	56.5	20.6	21.2	20.1	18.9	19.2	19.2	19.0	18.6	18.7	17.6
<b>No. of limitations in ADLs</b>																					
Zero		53.9	53.5	52.4	51.2	49.0	46.6	40.5	43.3	39.6	47.3	72.6	73.9	72.4	72.7	71.9	70.7	67.3	70.2	69.5	73.9
1 to 2		27.4	29.6	27.4	29.8	30.7	32.1	34.5	33.2	36.3	29.5	19.1	18.8	20.0	18.6	19.7	20.7	23.0	20.9	21.6	17.9
3 to 6		18.5	16.4	19.4	18.6	20.1	21.2	24.9	23.2	24.0	23.2	8.1	7.0	7.1	8.2	8.1	8.5	9.6	8.8	8.9	8.2
<b>No. of chronic conditions</b>																					
Zero or 1		21.7	22.2	21.0	21.2	18.8	18.7	18.9	18.2	16.6	19.0	25.8	25.6	24.9	26.2	25.3	23.9	22.8	23.3	22.8	27.1
2 to 3		41.1	42.0	40.2	40.7	41.9	42.3	41.5	39.4	37.1	40.1	47.9	47.3	47.1	46.3	47.2	47.6	46.8	46.1	46.6	46.2
4 to 10		37.2	35.7	38.8	38.1	39.3	39.0	39.7	42.4	46.3	40.9	26.3	27.1	28.0	27.4	27.5	28.5	30.4	30.6	30.5	26.7
<b>Drug Coverage</b>																					
Part D with Low Income Subsidy		51.2	51.4	50.6	51.8	53.7	54.3	56.6	56.0	59.4	58.0	15.3	14.8	14.4	13.9	14.3	14.8	14.6	14.2	14.8	14.5
Medicare Advantage with Part D		7.8	7.6	8.7	10.8	11.4	11.0	11.8	13.8	13.1	12.5	15.4	17.5	18.8	21.3	21.6	22.9	24.5	26.6	28.3	29.0
Traditional Medicare with Part D		7.5	9.1	10.0	10.6	8.4	8.8	7.3	8.5	10.2	10.0	22.1	22.7	23.5	22.2	22.0	22.6	23.8	28.8	30.8	31.6
Other drug supplement plan		17.8	16.6	17.6	15.8	14.1	13.4	12.1	11.1	11.1	12.8	33.5	32.0	30.3	29.3	28.7	26.7	23.6	17.1	18.9	18.0
No drug coverage		15.7	15.3	13.1	11.1	12.4	12.5	12.2	10.6	6.2	6.8	13.7	13.1	13.0	13.3	13.4	13.0	13.4	13.3	7.3	6.8

Supplemental Digital Content 3b: Detailed prevalence of study outcomes, 2006-2015

Study outcome	Enrollees under 65 years									
	% (95% CI)									
	2006	2007	2008	2009	2010	2011	2012	2013	2015	2016
<b>Any cost-related nonadherence (CRN composite)</b>	35.5 (32.9-38.1)	31.4 (28.1-34.6)	32.1 (28.9-35.2)	31.5 (28.9-34.2)	33.8 (31.5-36.1)	33.5 (30.9-36.2)	40 (37.1-42.9)	36.1 (33-39.1)	35.8 (32.4-39.2)	34.5 (31.0-37.0)
"Skipped doses to make the medicine last longer"	19.3 (17.1-21.5)	17.1 (14.6-19.7)	15.9 (13.8-18.1)	17.6 (15.4-19.7)	15.3 (13.6-17.1)	14.2 (12.6-15.9)	16.8 (14.7-19)	15.4 (13.1-17.8)	17 (14.7-19.3)	15.2 (13.3-17.1)
"Took smaller doses than prescribed to make the medicine last longer"	20.5 (17.9-23)	18 (15.3-20.7)	17.1 (15-19.3)	17 (14.7-19.3)	18.1 (16.1-20.1)	16.9 (14.8-18.9)	21.1 (18.5-23.7)	18.3 (15.7-21)	19.2 (16.9-21.4)	16.2 (14.1-18.4)
"Decided not to fill a prescription because it cost too much"	22.8 (20.7-25)	19.8 (17-22.5)	20 (17.8-22.3)	20.7 (18.3-23)	20.7 (18.7-22.8)	20.5 (18.4-22.6)	24.3 (21.9-26.6)	22.1 (19.6-24.6)	22.6 (19.3-25.9)	22.0 (19.6-24.4)
"Delayed getting a prescription filled because it cost too much"	23.1 (20.9-25.3)	20.8 (18-23.6)	19.9 (17.7-22.1)	20.6 (18.1-23.1)	21.4 (19.4-23.5)	20.4 (18.3-22.4)	22.8 (20.4-25.2)	20.9 (18.5-23.2)	21.6 (18.9-24.2)	20.6 (18.4-22.8)
"Did not get a prescribed medicine", and "reason" was "cost"	6.5 (5.2-7.9)	6.3 (4.9-7.7)	5.4 (4.4-6.3)	5.7 (4.2-7.2)	6.9 (5.5-8.2)	5.3 (4.6-7)	5.8 (4.5-7.1)	7.5 (5.9-9.2)	8.1 (6.1-10)	8.0 (6.3-9.7)
<b>"Spent less money on food, heat, or other basic needs to have money for medicine"</b>	21.7 (19.3-24.1)	18.9 (16.7-21.1)	17.5 (14.9-20.2)	18.3 (15.6-21)	18.1 (16.2-20.1)	21.5 (19.1-23.9)	25.3 (23-27.6)	22 (19.3-24.7)	21.5 (18.7-24.4)	19.4 (17.0-21.7)
<b>Any drug cost reduction strategy (composite)<sup>(4)</sup></b>	N/A	N/A	N/A	N/A	N/A	61.9 (58.8-65.1)	59.9 (57.3-62.4)	52.9 (50-55.7)	48.1 (45-51.1)	47.6 (44.4-50.9)
"Asked for generics instead of brand name drugs"	50.8 (47.4-54.2)	48.1 (44.5-51.8)	53.7 (49.8-57.5)	51.9 (48.2-55.6)	55 (51.8-58.1)	53.2 (49.6-56.8)	48.3 (45.3-51.2)	43.4 (40.2-46.5)	37.8 (34.8-40.8)	36.8 (33.4-40.1)
"Compared prices or shopped around for the best price"	23.2 (20.6-25.8)	20.5 (18-23)	22.4 (19.6-25.2)	22.7 (20-25.4)	22.6 (20.2-25)	20.5 (18-22.9)	25 (22.6-27.4)	20.2 (17.7-22.8)	19 (15.8-22.2)	21.4 (19.1-23.6)
"Talked with doctor about stopping a medicine to save money or substituting a medicine with one that is less expensive"	N/A	N/A	N/A	N/A	N/A	22.4 (20.2-24.5)	26.7 (24.4-29)	21.6 (19.3-23.9)	22 (19.3-24.8)	19.8 (17.5-22.0)

Study outcome	Enrollees 65 years and over									
	% (95% CI)									
	2006	2007	2008	2009	2010	2011	2012	2013	2015	2016
<b>Any cost-related nonadherence (CRN composite)</b>	12.2 (11.5-13)	11.2 (10.3-12.1)	10.3 (9.5-11)	10.1 (9.4-10.9)	11.2 (10.4-12.1)	10.8 (10-11.6)	13.9 (13.1-14.7)	12.4 (11.6-13.2)	14 (12.8-15.3)	14.4 (13.4-15.3)
"Skipped doses to make the medicine last longer"	5.2 (4.7-5.7)	5.4 (4.8-6)	3.8 (3.3-4.2)	4 (3.4-4.6)	4 (3.5-4.4)	4 (3.5-4.4)	4.3 (3.9-4.8)	3.5 (3.1-3.9)	4.2 (3.6-4.7)	4.3 (3.8-4.7)
"Took smaller doses than prescribed to make the medicine last longer"	6.6 (6.1-7.1)	6.2 (5.5-6.8)	4.5 (4-5)	4.6 (4.1-5.1)	5.1 (4.5-5.7)	4.4 (3.9-5)	5.8 (5.3-6.4)	4.6 (4.1-5.1)	5.1 (4.4-5.8)	5.1 (4.5-5.7)
"Decided not to fill a prescription because it cost too much"	5.7 (5.2-6.2)	6 (5.4-6.6)	5.3 (4.8-5.9)	5.5 (5-6)	6.2 (5.6-6.9)	6.2 (5.6-6.7)	7.7 (7.1-8.3)	7.1 (6.5-7.7)	8.6 (7.6-9.7)	8.7 (8.0-9.5)
"Delayed getting a prescription filled because it cost too much"	6.3 (5.7-6.8)	6.4 (5.7-7)	4.5 (4-4.9)	4.7 (4.2-5.2)	5.5 (5-6)	5 (4.5-5.5)	6 (5.4-6.5)	5.4 (4.8-6)	6.7 (5.8-7.5)	6.5 (5.9-7.1)
"Did not get a prescribed medicine", and "reason" was "cost"	1.1 (0.9-1.3)	1.4 (1.1-1.7)	1.5 (1.2-1.8)	1.6 (1.3-1.9)	1.6 (1.3-1.9)	1.6 (1.4-1.9)	2.2 (1.8-2.5)	1.7 (1.4-2)	3 (2.4-3.6)	2.9 (2.4-3.3)
<b>"Spent less money on food, heat, or other basic needs to have money for medicine"</b>	5 (4.5-5.5)	5.6 (5-6.2)	4.5 (3.8-5.2)	3.9 (3.5-4.4)	4.4 (3.8-5)	5.3 (4.8-5.8)	5.5 (5-6.1)	5 (4.5-5.6)	5.1 (4.4-5.7)	4.7 (4.1-5.2)
<b>Any drug cost reduction strategy (composite)</b>	N/A	N/A	N/A	N/A	N/A	55.5 (53.0-58.0)	51.2 (49.5-52.9)	48.2 (46.3-50)	44.4 (42.5-46.3)	44.0 (42.2-45.8)
"Asked for generics instead of brand name drugs"	47 (44.7-49.2)	48.3 (46.1-50.5)	50.4 (47.7-53.1)	47.3 (45-49.5)	51.5 (49.3-53.8)	50.6 (47.8-53.3)	44.9 (43-46.7)	42.1 (40.1-44.1)	37.2 (35.3-39.1)	36.9 (35.0-38.6)
"Compared prices or shopped around for the best price"	16.5 (15.4-17.6)	15.5 (14.4-16.6)	16.6 (15-18.2)	15.8 (14.4-17.2)	17 (15.6-18.4)	15.8 (14.6-16.9)	15.5 (14.5-16.5)	13.9 (12.9-14.9)	14.2 (13-15.4)	14.3 (13.3-15.3)
"Talked with doctor about stopping a medicine to save money or substituting a medicine with one that is less expensive"	N/A	N/A	N/A	N/A	N/A	13.4 (12.5-14.3)	15.1 (14.3-16)	13 (12.2-13.8)	14.2 (13.2-15.3)	13.9 (13.0-14.9)

\* "Talked with doctor about stopping a medicine" question available since 2011. Cost reduction strategies composite constructed for 2011-2016 only.

Supplemental Digital Content 3c: Annual prevalence of use of cost reduction strategies, 2011 to 2016

