

Supplemental Online Content

Agarwal MA, Fonarow GC, Ziaeeian B. National trends in heart failure hospitalizations and readmissions from 2010 to 2017. *JAMA Cardiol*. Published online February 10, 2021. doi:10.1001/jamacardio.2020.7472

eTable 1. Trends of patient demographics and comorbidities from 2010 to 2017 for unique patients with single primary heart failure hospitalizations

eTable 2. Trends of patient demographics and comorbidities from 2010 to 2017 for unique patients with multiple primary heart failure hospitalizations

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Trends of patient demographics and comorbidities from 2010 to 2017 for unique patients with single primary heart failure hospitalizations

	2010 (n= 1,017,475)	2011 (n= 985, 034)	2012 (n= 957, 509)	2013 (n= 962,819)	2014 (n= 994,099)	2015 (n=1,057,652)	2016 (n=1,090,348)	2017 (n=1,208,334)
Age, Mean (SD), in years	73.0 (13.2)	73.0 (13.2)	72.9 (13.1)	72.9 (13.2)	72.8 (14.0)	72.6 (15.0)	72.4 (15.0)	72.3 (15.2)
Female, % (95% CI)	50.9 (50.5 to 51.4)	50.5 (50.0 to 50.9)	50.0 (49.5 to 50.4)	49.4 (49.1 to 49.7)	49.1 (48.8 to 49.4)	48.9 (48.6 to 49.2)	48.8 (48.5 to 49.1)	48.5 (48.3 to 48.8)
Payer status, % (95% CI)								
<i>Medicare</i>	76.2 (75.3 to 77.1)	76.3 (75.4 to 77.2)	76.7 (75.7 to 77.6)	76.5 (75.8 to 77.2)	76.3 (75.6 to 77.1)	76.1 (75.4 to 76.8)	75.9(75.2 to 76.6)	76.2 (75.6 to 76.7)
<i>Medicaid</i>	7.1 (6.6 to 7.6)	7.2 (6.7 to 7.7)	7.1 (6.6 to 7.6)	7.1 (6.7 to 7.5)	8.2 (7.8 to 8.6)	8.4 (8.1 to 8.8)	8.9 (8.4 to 9.3)	8.9 (8.5 to 9.3)
<i>Private</i>	11.5 (11.0 to 12.0)	11.1 (10.6 to 11.6)	10.7 (10.2 to 11.2)	10.5 (10.1 to 10.9)	10.5 (10.1 to 10.9)	10.8 (10.4 to 11.2)	10.5 (10.2 to 10.9)	10.4 (10.1 to 10.7)
<i>Self-pay</i>	3.0 (2.7 to 3.2)	2.9 (2.7 to 3.1)	3.0 (2.8 to 3.3)	3.2 (3.0 to 3.5)	2.7 (2.5 to 3.0)	2.5 (2.2 to 2.7)	2.4 (.2 to 2.6)	2.2 (2.1 to 2.4)
<i>No-charge</i>	0.2(0.2 to 0.4)	0.3 (0.2 to 0.4)	0.3 (0.2 to 0.4)	0.4(0.3 to 0.5)	0.4 (0.3 to 0.5)	0.3(0.2 to 0.4)	0.3(0.2 to 0.4)	0.3 (0.2 to 0.3)
<i>Other</i>	2.0 (1.8 to 2.2)	2.2 (2.0 to 2.5)	2.2 (2.1 to 2.6)	2.3 (2.0 to 2.5)	1.9 (1.6 to 2.1)	1.9 (1.7 to 2.1)	2.0 (1.7 to 2.3)	2.0 (1.8 to 2.1)
Median Household Income quartile, % (95% CI)								
<i>1st</i>	35.1 (33.3 to 37.0)	35.7(33.9 to 37.7)	35.5(33.7 to 37.4)	31.7 (30.1 to 33.3)	31.3(29.7 to 32.9)	33.6(32.0 to 35.2)	33.3 (31.7 to 34.9)	33.7 (32.3to 35.1)
<i>2nd</i>	25.0 (23.8 to 26.1)	24.1 (23.0 to 25.2)	24.5 (23.4 to 25.6)	27.5(26.4 to 28.6)	27.6 (26.5 to 28.7)	25.5(24.5 to 26.4)	26.4 (25.3 to 27.4)	28.1 (27.2 to 29.1)
<i>3rd</i>	21.6 (20.5 to 22.7)	22.7 (21.6 to 23.9)	21.8(20.7 to 22.8)	22.8(21.9 to 23.7)	22.1 (21.2 to 23.2)	23.4(22.4 to 24.5)	23.6(22.6 to 24.6)	22.4(21.5 to 23.4)
<i>4th</i>	18.3(16.9 to 19.8)	17.5(16.0 to 18.9)	18.2(16.8 to 19.8)	18.0 (16.7 to 19.5)	19.0 (17.6 to 20.5)	17.5(16.2 to 18.9)	16.7 (15.5 to 18.1)	15.8 (14.7 to 16.9)
Comorbidities, % (95% CI)								
<i>Hypertension</i>	76.5 (76.0 to 77.1)	77.5 (77.0 to 78.1)	78.6 (77.9 to 79.3)	79.5(79.0 to 80.1)	81.2 (80.6 to 81.7)	83.2 (82.7 to 83.6)	86.3 (85.8 to 86.7)	91.0 (90.7 to 91.2)
<i>Diabetes</i>	43.9 (43.4 to 44.3)	44.2(43.7 to 44.7)	44.4 (43.9 to 45.0)	45.2(44.7 to 45.6)	46.1 (45.7 to 46.5)	46.5 (46.1 to 46.8)	45.6 (45.2 to 46.1)	47.3 (46.9 to 47.7)
<i>Lipid disorders</i>	40.4 (39.5 to 41.3)	42.1 (41.2 to 43.0)	43.7 (42.8 to 44.7)	46.2 (45.4 to 47.0)	48.2 (47.4 to 49.0)	50.2(49.5 to 50.9)	51.7 (50.8 to 52.5)	53.2 (52.4 to 53.9)
<i>CAD</i>	53.0 (52.3 to 53.8)	52.5 (51.8 to 53.2)	52.8(52.1 to 53.6)	52.9 (52.3 to 53.6)	52.8 (52.1 to 53.4)	53.0(52.5 to 53.6)	52.9 (52.4 to 53.4)	53.0 (52.4 to 53.5)
<i>COPD</i>	28.6 (28.1 to 29.1)	28.8 (28.3 to 29.3)	29.1 (28.5 to 29.6)	29.2 (28.7 to 29.7)	29.1 (28.7 to 29.6)	29.9(29.5 to 30.3)	33.1 (32.6 to 33.5)	33.7 (33.3 to 34.2)
<i>Renal disease</i>	43.1 (42.4 to 43.8)	44.6(44.0 to 45.3)	46.2(45.5 to 46.9)	49.8(49.3 to 50.4)	51.7(51.1 to 52.3)	52.9(52.4 to 53.5)	54.8(54.3 to 55.3)	57.6 (57.2 to 58.0)

eTable 2. Trends of patient demographics and comorbidities from 2010 to 2017 for unique patients with multiple primary heart failure hospitalizations

	2010 (n= 1,017,475)	2011 (n= 985, 034)	2012 (n= 957, 509)	2013 (n= 962,819)	2014 (n= 994,099)	2015 (n=1,057,652)	2016 (n=1,090,348)	2017 (n=1,208,334)
Age, Mean (SD), in years	71.0 (14.0)	70.9 (14.0)	70.7 (13.8)	70.4 (14.4)	70.3 (14.7)	70.0 (15.6)	69.6 (15.7)	69.6 (15.8)
Female, % (95% CI)	48.1 (47.2 to 48.9)	48.1 (47.3 to 48.9)	47.4(46.6 to 48.2)	46.6 (46.0 to 47.2)	46.6 (46.1 to 47.2)	46.2 (45.7 to 46.7)	46.4 (45.9 to 46.9)	45.7 (45.3 to 46.2)
Payer status, % (95% CI)								
<i>Medicare</i>	74.9 (73.7 to 76.0)	75.5 (74.5 to 76.7)	75.3 (74.0 to 76.5)	74.7 (73.4 to 75.5)	73.3 (72.5 to 74.6)	73.5 (72.6 to 74.6)	73.0 (72.0 to 73.9)	73.5 (73.0 to 74.6)
<i>Medicaid</i>	11.5 (10.8 to 12.5)	11.5 (10.7 to 12.5)	11.6 (10.8 to 12.6)	12.3 (11.6 to 13.1)	13.6 (12.9 to 14.5)	13.7 (13.2 to 14.7)	14.8(14.2 to 15.7)	14.5 (13.8 to 15.2)
<i>Private</i>	9.0 (8.5 to 9.6)	8.5 (8.1 to 9.2)	8.6 (7.9 to 9.3)	8.1 (7.5 to 8.6)	8.5 (8.0 to 9.1)	8.4(7.9 to 8.9)	8.0 (7.6 to 8.5)	7.8(7.4 to 8.2)
<i>Self-pay</i>	2.2 (2.0 to 2.6)	2.1 (1.9 to 2.4)	2.1 (1.8 to 2.4)	2.5 (2.3 to 2.8)	2.1 (1.8 to 2.4)	1.9 (1.6 to 2.3)	1.8 (1.6 to 2.1)	1.8 (1.7 to 2.1)
<i>No-charge</i>	0.2 (0.2 to 0.4)	0.2 (0.1 to 0.3)	0.2 (0.1 to 0.2)	0.2 (0.2 to 0.3)	0.3 (0.2 to 0.5)	0.3 (0.2 to 0.4)	0.2(0.2 to 0.3)	0.2 (0.2 to 0.3)
<i>Other</i>	0.2 (0.2 to 0.2)	0.2 (0.2 to 0.2)	0.2 (0.2 to 0.3)	0.2(0.2 to 0.3)	0.2 (0.2 to 0.2)	0.2 (0.2 to 0.2)	0.2(0.2 to 0.2)	0.2 (0.2 to 0.2)
Median Household Income quartile, % (95% CI)								
<i>1st</i>	38.8 (36.4 to 41.2)	39.7 (37.4 to 42.1)	39.9 (37.7 to 42.3)	37.1 (35.2 to 38.9)	36.6 (34.6 to 38.6)	39.4 (37.6 to 41.3)	38.8 (37.0 to 40.6)	38.9 (37.2 to 40.6)
<i>2nd</i>	23.9 (22.7 to 25.1)	23.5 (22.2 to 24.8)	23.7 (22.5 to 25.0)	26.0 (24.9 to 27.2)	26.6 (25.4 to 27.8)	24.2 (23.2 to 25.3)	25.4 (24.3 to 26.5)	26.9 (25.9 to 27.9)
<i>3rd</i>	20.8 (19.5 to 22.1)	21.5(20.3 to 22.7)	20.2 (19.0 to 21.4)	21.1 (20.2 to 22.2)	20.0 (19.1 to 21.2)	21.1 (20.0 to 22.1)	21.3 (20.4 to 22.4)	20.2 (19.3 to 21.3)
<i>4th</i>	16.5 (15.1 to 18.1)	15.3 (13.9 to 16.9)	16.2 (14.6 to 17.7)	15.8 (14.4 to 17.2)	16.8 (15.3 to 18.3)	15.3 (14.0 to 16.7)	14.5 (13.2 to 15.8)	14.0 (12.9 to 15.1)
Comorbidities, % (95% CI)								
<i>Hypertension</i>	76.5 (75.7 to 77.2)	77.4 (76.7 to 78.1)	78.9 (78.1 to 79.6)	79.9 (79.1 to 80.7)	81.9 (81.2 to 82.6)	84.0 (83.4 to 84..6)	87.6(87.1 to 88.1)	92.8(92.4 to 93.2)
<i>Diabetes</i>	48.4 (47.7 to 49.0)	48.7 (47.9 to 49.4)	49.0 (48.3 to 49.8)	50.2 (49.6 to 50.7)	51.2 (50.5 to 51.9)	51.4 (50.8 to 52.0)	52.0 (51.3 to 52.7)	53.8 (53.3 to 54.4)
<i>Lipid disorders</i>	39.8 (38.6 to 40.9)	41.9 (40.8 to 43.0)	43.6(42.5 to 44.7)	45.8 (44.8 to 46.7)	48.2 (47.2 to 49.2)	50.1 (49.1 to 51.0)	51.4 (50.3 to 52.4)	53.0 (52.1 to 54.0)
<i>CAD</i>	58.2 (57.3 to 59.1)	57.5 (56.6 to 58.5)	58.0 (57.0 to 59.0)	57.9 (57.0 to 58.8)	58.3 (57.4 to 59.1)	58.4 (57.6 to 59.2)	57.8 (57.1 to 58.6)	57.9 (57.2 to 58.6)
<i>COPD</i>	33.3 (32.6 to 34.1)	33.5 (32.6 to 34.1)	34.3 (33.5 to 35.1)	34.0(33.3 to 34.7)	34.0 (33.2 to 34.7)	36.1 (35.4 to 36.8)	40.2 (39.5 to 40.8)	41.0 (40.3 to 41.7)
<i>Renal disease</i>	54.9 (53.9 to 55.8)	56.2 (55.2 to 57.2)	58.0 (57.0 to 58.9)	62.0(61.2 to 62.8)	63.8 (63.0 to 64.5)	65.4 (64.7 to 66.1)	67.4 (66.7 to 68.1)	70.4 (69.8 to 70.9)