

Supplementary Materials

Title: Long-Term Survival of Individuals with Sickle Cell Disease: A Nationwide Cohort Study of Medicare and Medicaid Beneficiaries

Short Title: Long-Term Survival in Sickle Cell Disease

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Appendix Figure 1. Cumulative mortality curves for all the individuals with sickle cell disease (top panel) and by sex (bottom panel)

Appendix Figure 2. Cumulative mortality curves for individuals with sickle cell disease by insurance status: Medicare OASI (Panel A), Medicare DIB or ESRD (Panel B), Medicaid (Panel C), and dually eligible for Medicare and Medicaid (Panel D)

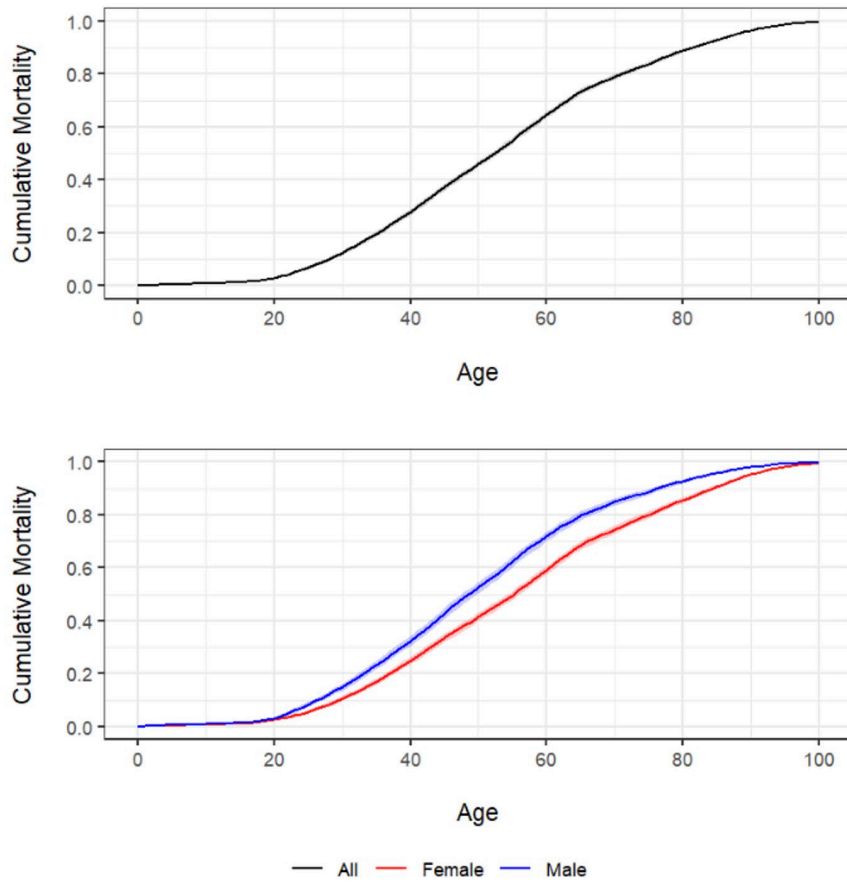
Appendix Figure 3. Cumulative mortality curves for individuals with sickle cell disease by insurance status and sex: Medicare OASI (Panel A), Medicare DIB or ESRD (Panel B), Medicaid (Panel C), and dually eligible for Medicare and Medicaid (Panel D)

Appendix Table 1. Diagnosis codes used in Chronic Conditions Data Warehouse's definition of sickle cell disease

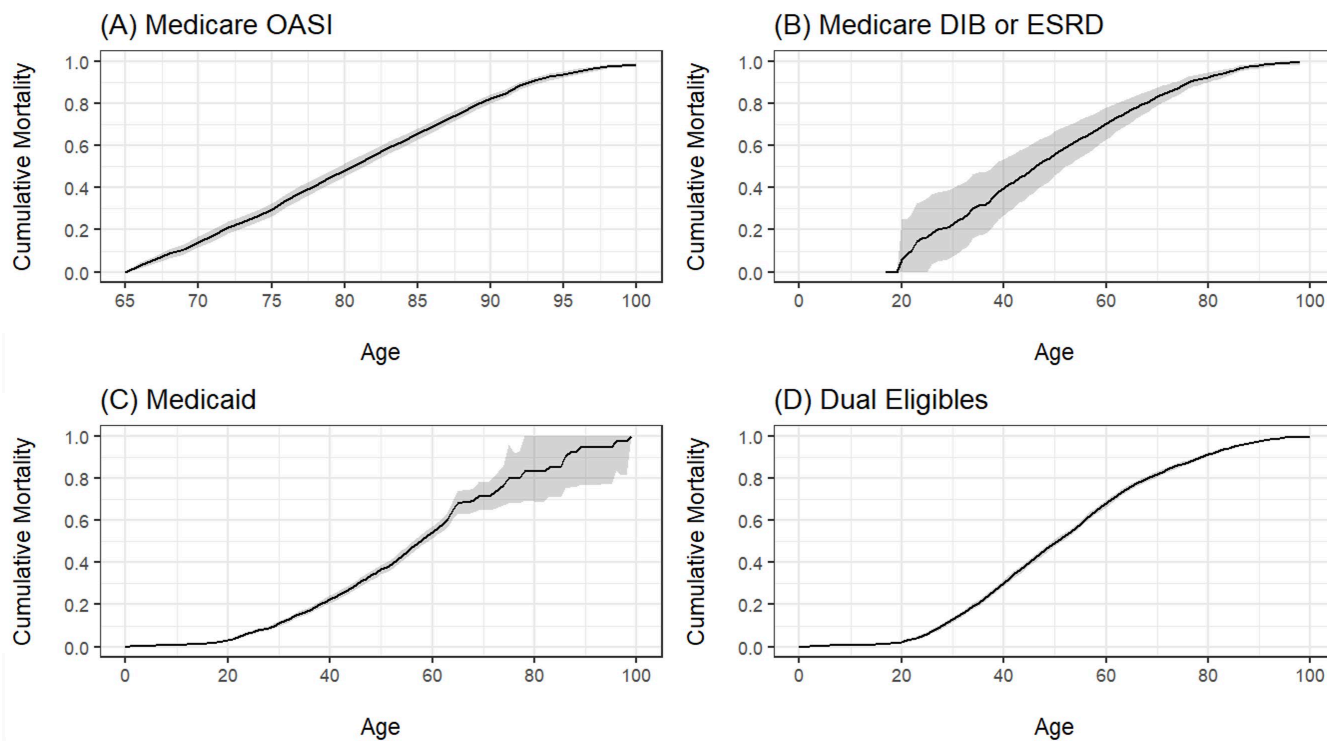
Appendix Table 2. Life expectancies (95% CI) at different ages for Black and non-Black individuals with sickle cell disease

Appendix Table 3. Life expectancies (95% CI) at different ages for individuals with sickle cell disease covered by Medicare DIB only, Medicare ESRD only, and Medicare DIB and ESRD

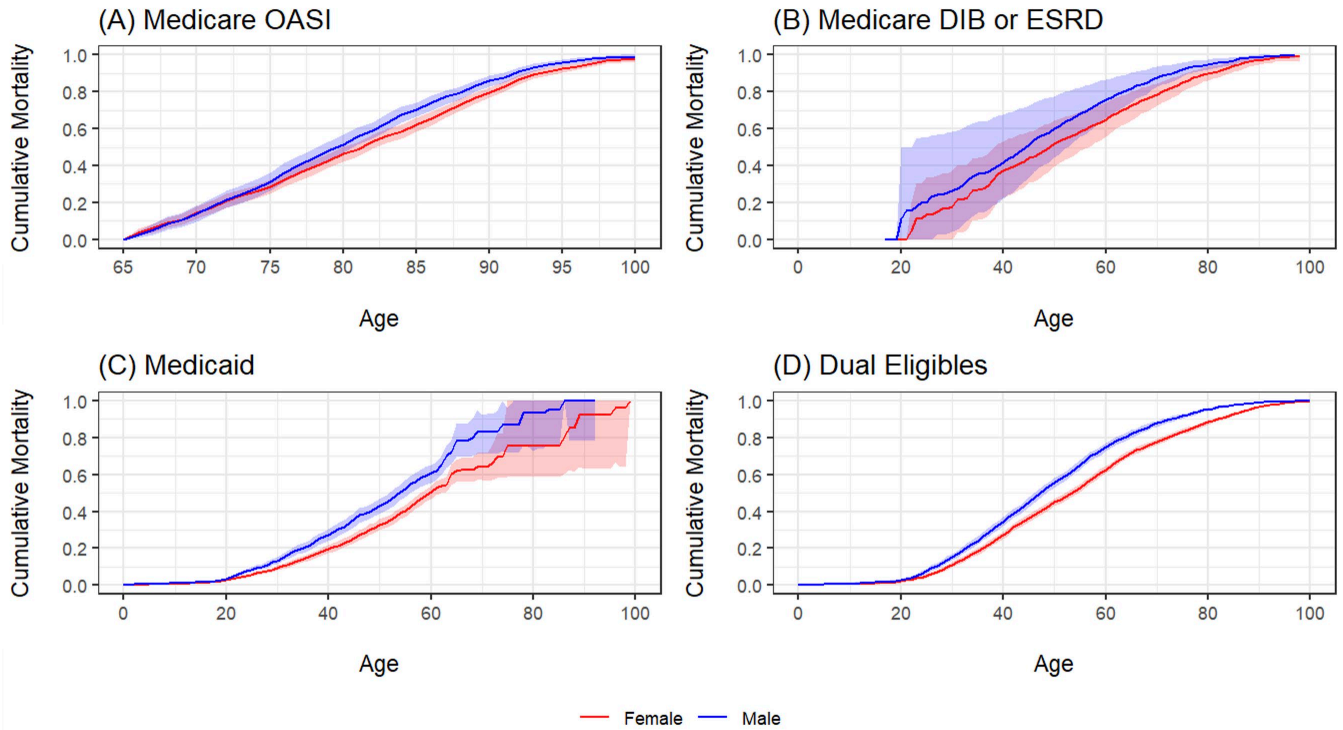
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Appendix Table 1. Diagnosis codes used in Chronic Conditions Data Warehouse’s definition of sickle cell disease

ICD-9 codes	282.41, 282.42, 282.60, 282.61, 282.62, 282.63, 282.64, 282.68, 282.69
ICD-10 codes	D57.00, D57.01, D57.02, D57.03, D57.09, D57.1, D57.20, D57.211, D57.212, D57.213, D57.218, D57.219, D57.40, D57.411, D57.412, D57.413, D57.418, D57.419, D57.42, D57.431, D57.432, D57.433, D57.438, D57.439, D57.44, D57.451, D57.452, D57.453, D57.458, D57.459, D57.80, D57.811, D57.812, D57.813, D57.818, D57.819

Reference: *Chronic Conditions Data Warehouse. Other Chronic Health, Mental Health, and Potentially Disabling Conditions: Sickle Cell Disease. Chronic Conditions Data Warehouse. Published February 2022. Accessed August 1, 2022. <https://www2.ccwdata.org/condition-categories-other>*

Appendix Table 2. Life expectancies (95% CI) at different ages for Black and non-Black individuals with sickle cell disease

Age	Black Individuals	Non-Black Individuals
All		
Birth	52.2 (51.4, 53.1)	55.1 (53.2, 57.0)
18	34.9 (34.3, 35.7)	38.3 (36.7, 39.9)
35	23.8 (23.3, 24.3)	25.9 (24.8, 27.1)
45	19.3 (18.8, 19.7)	20.8 (20.0, 21.6)
65	12.9 (12.4, 13.3)	13.6 (13.1, 13.9)
85	5.4 (4.9, 6.1)	5.4 (5.1, 5.6)
Female		
Birth	54.6 (53.5, 55.7)	58.3 (55.8, 60.9)
18	37.2 (36.3, 38.1)	41.4 (39.3, 43.6)
35	25.5 (24.9, 26.2)	28.4 (26.8, 30.0)
45	20.9 (20.3, 21.5)	23.0 (21.9, 24.1)
65	13.6 (13.1, 14.1)	14.5 (14.2, 14.8)
85	5.5 (4.9, 6.2)	5.6 (5.3, 5.9)
Male		
Birth	49.0 (47.8, 50.3)	50.9 (48.2, 53.7)
18	31.8 (30.8, 32.8)	34.1 (31.7, 36.5)
35	21.1 (20.4, 21.9)	22.5 (20.8, 24.2)
45	16.8 (16.2, 17.5)	17.8 (16.5, 18.9)
65	11.4 (10.8, 12.1)	12.2 (11.9, 12.5)
85	5.3 (4.3, 6.6)	4.9 (4.5, 5.2)

Appendix Table 3. Life expectancies (95% CI) at different ages for individuals with sickle cell disease covered by Medicare DIB only, Medicare ESRD only, and Medicare DIB and ESRD

Age	Medicare DIB only	Medicare ESRD only	Medicare DIB and ESRD
18	31.1 (23.9, 37.5)	-	-
35	24.5 (24.1, 25.3)	10.7 (0.0, 19.3)	-
45	19.9 (19.4, 20.4)	8.6 (0.0, 13.3)	10.8 (0, 11.8)
65	11.4 (10.8, 11.9)	6.3 (0.0, 8.7)	6.5 (0.0, 7.7)
85	4.7 (3.5, 6.0)	-	-