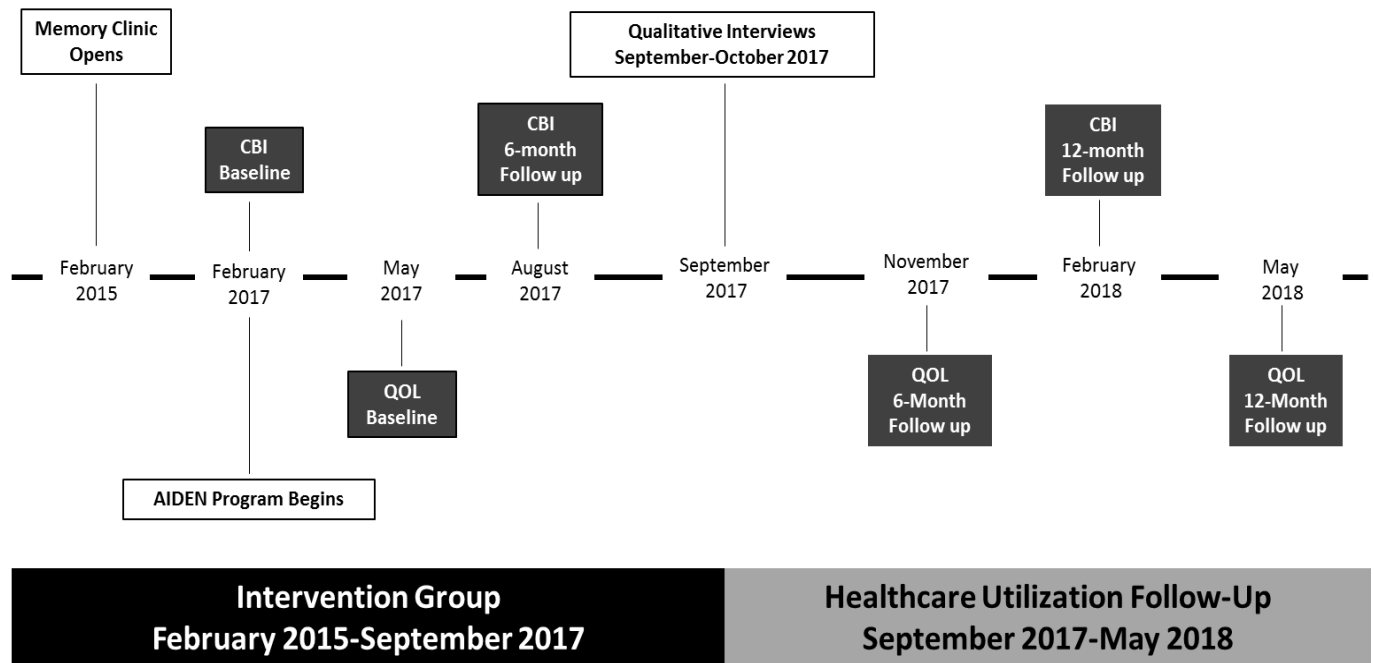
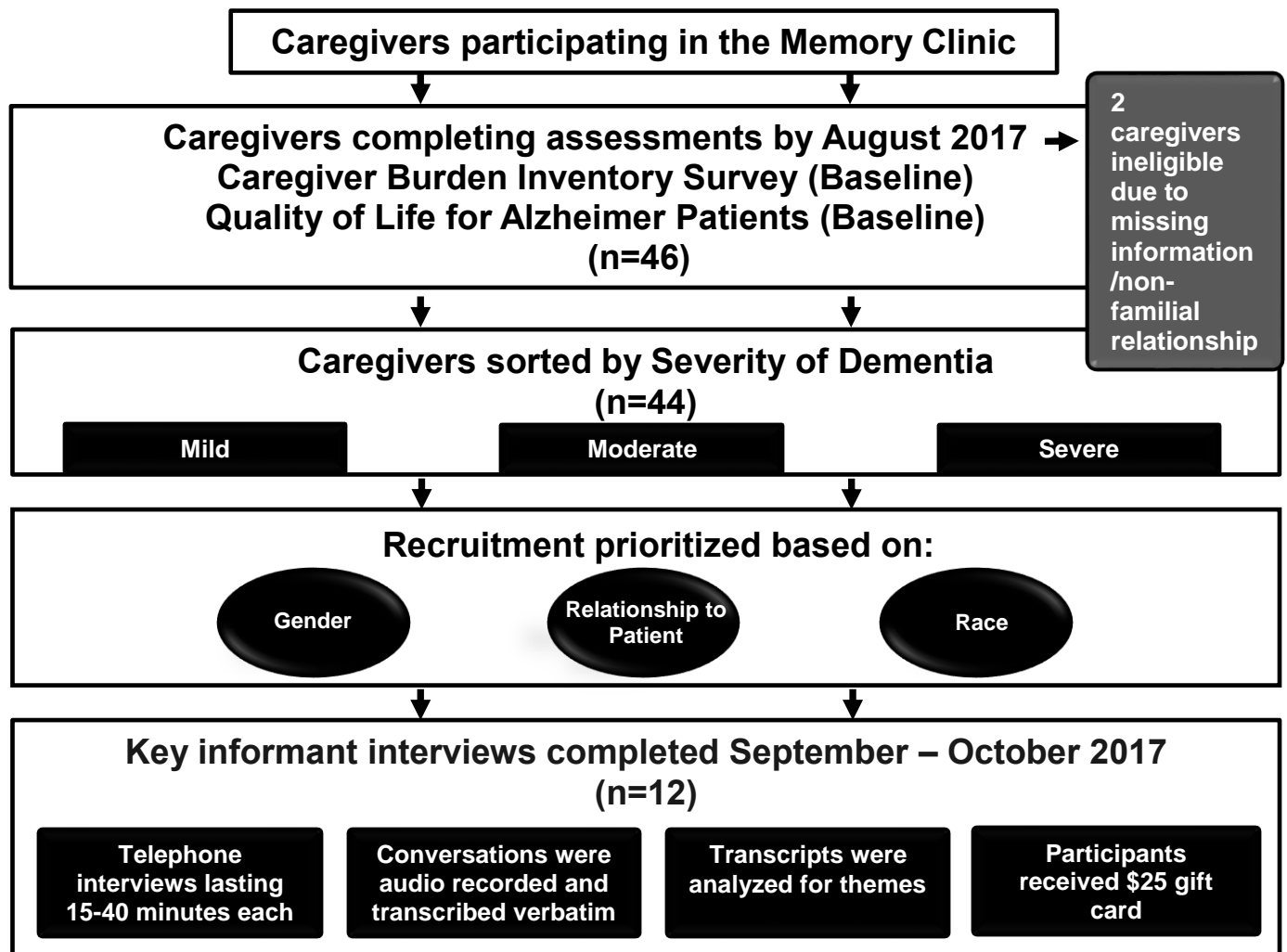


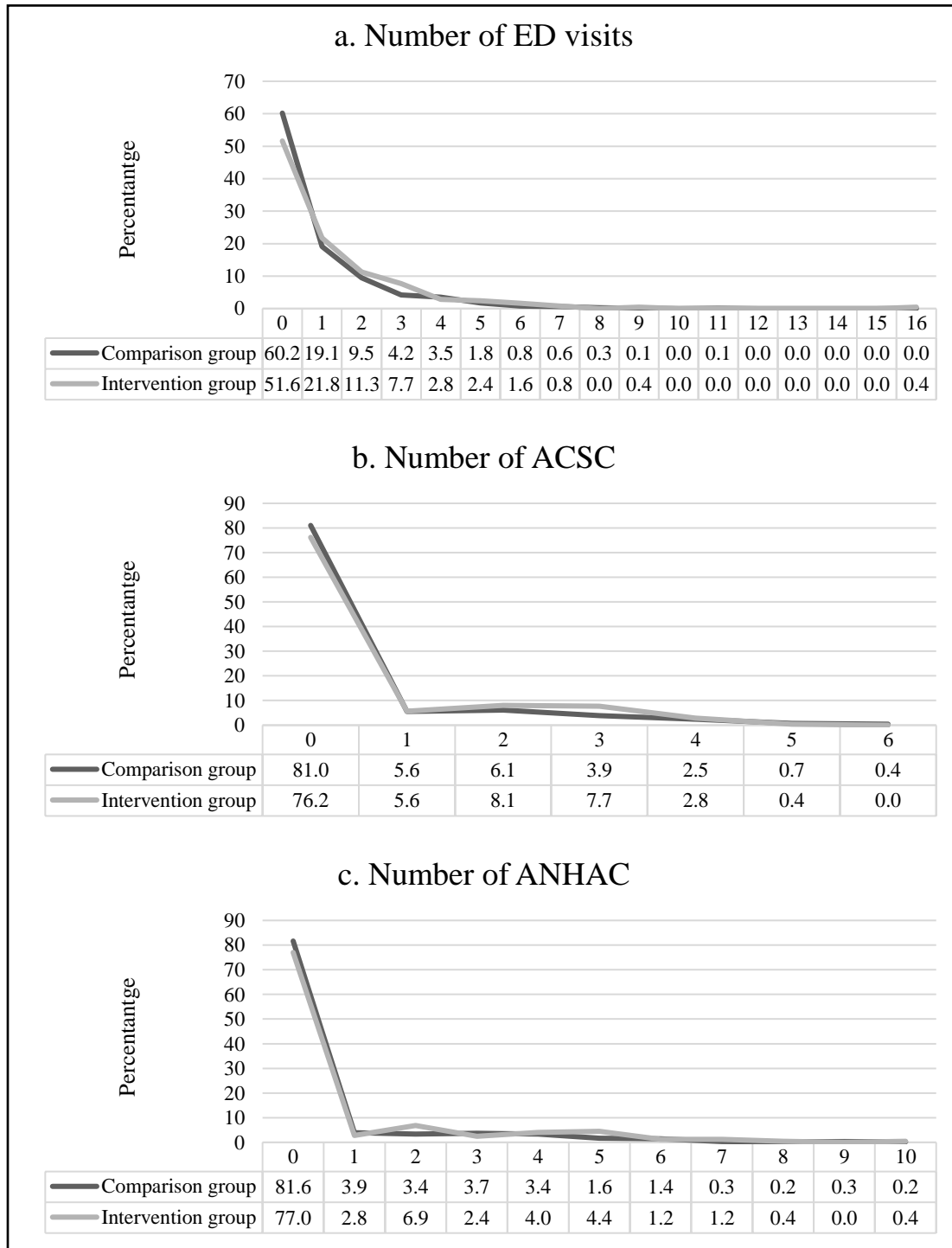
Supplementary Figure S1. Project Timeline



Supplementary Figure S2. Selection of participants for key informant interviews with caregivers



Supplementary Figure S3. Distribution of healthcare utilization between intervention and comparison group



ED, emergency department; ACSC, ambulatory care-sensitive conditions (PQI 6.0 from AHRQ); ANHAC, additional nursing home-specific avoidable conditions.

Supplementary Table S1. Demographics for dementia patients from the retrospective matched cohort

	Comparison Group	Intervention Group	Standardized Difference*
Total, n (%)	938 (79.8)	238 (20.2)	
Age, median (range)	81 (65-102)	81.5 (65-96)	0.10
Female, n (%)	691 (73.7)	173 (72.7)	0.02
Marital status, n (%)			0.02
Married	346 (36.9)	83 (34.9)	
Widowed	385 (41.0)	103 (43.3)	
Others	207 (22.1)	52 (21.8)	
Race/Ethnicity, n (%)			0.00
Caucasian	709 (75.6)	181 (76.1)	
African American	164 (17.5)	41 (17.2)	
Other	65 (6.9)	16 (6.7)	
Traumatic brain injury, n (%)	51 (5.4)	16 (6.7)	0.05
Down syndrome, n (%)	0 (0.0)	0 (0.0)	--
Mental retardation, n (%)	3 (0.3)	1 (0.4)	0.02
Alcohol abuse, n (%)	19 (2.0)	8 (3.4)	0.08
Drug abuse, n (%)	10 (1.1)	4 (1.7)	0.05
High risk medication, n (%)	127 (13.5)	24 (10.1)	0.11
Charlson Comorbidity Index, median (range)	0 (0-12)	0 (0-12)	0.02
Unemployment rate, median (range)	8.4 (0.6-33.9)	7.9 (0.5-33.9)	0.04
Median household income in thousands, median (range)	53.3 (16.9-179.8)	54.5 (17.0-190.1)	0.01
Percentage with bachelor's degree, median (range)	27.0 (2.6-84.5)	30.8 (2.6-86.7)	0.03
Baseline ED visit, median (range)	0 (0-23)	0 (0-8)	0.02
Baseline ACSC, median (range)	0 (0-6)	0 (0-6)	0.02
Baseline ANHAC, median (range)	0 (0-9)	0 (0-6)	0.09

*Standardized difference = difference in means or proportions divided by standard error; imbalance defined as value greater than 0.20 (small effect size)

Supplementary Table S2. Demographics for dementia patients and their caregivers who answered QoL-AD and CBI

	Patient	Caregivers
Total	124	132
Age, median (range)	80 (54-94)	--
Female, n (%)	96 (77.4)	96 (72.7)
Race/Ethnicity, n (%)		
Caucasian	89 (71.8)	96 (72.7)
African American	28 (22.6)	30 (22.7)
Other	7 (5.6)	7 (5.3)
Marital status, n (%)		
Married	57 (46.0)	--
Widowed	53 (42.7)	--
Other	14 (11.3)	--
Dementia Severity, n (%)		
Mild Cognitive Impairment	8 (6.5)	--
Mild Dementia	39 (31.5)	--
Moderate Dementia	61 (49.2)	--
Severe Dementia	16 (12.9)	--
New Patient, n (%)	63 (50.8)	--
Relation to the patient, n (%)		
Child	--	83 (62.9)
Spouse	--	39 (29.5)
Other	--	10 (7.6)
Baseline CBI, median (range)	--	27 (0-96)
Baseline QoL-AD, median (range)	--	31 (17-45)

CBI, caregiver burden inventory; QoL-AD, Quality of Life-Alzheimer's Disease