Appendix Table 1: Nationally representative odds ratios for the association of diabetes, hemoglobin A1c, diabetes duration, demographics, and selected comorbidities with disability* among older adults in fully adjusted models,§ NHANES 1999 - 2004
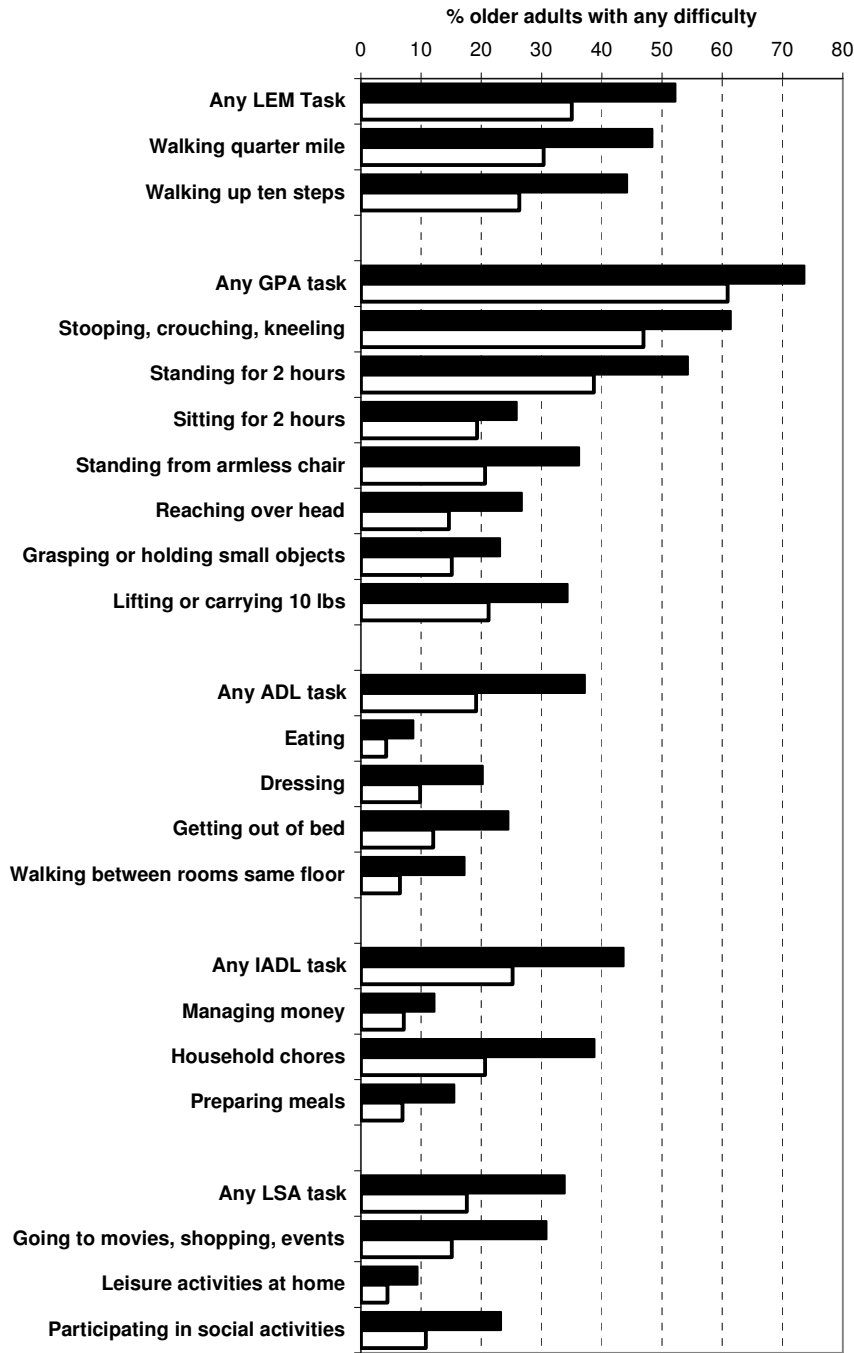
Covariate	LEM	GPA	ADL	IADL	LAS
Diabetes	0.90 (0.62 – 1.29)	1.20 (0.81 – 1.77)	1.33 (0.84 – 2.09)	1.08 (0.76 – 1.54)	1.11 (0.79 – 1.56)
Demographics					
Age[†]	1.44 (1.27 – 1.63)	1.38 (1.20 – 1.58)	1.01 (0.87 – 1.18)	1.12 (0.97 – 1.30)	1.10 (0.92 – 1.32)
Sex					
Male	Reference	Reference:	Reference	Reference	Reference
Female	2.61 (1.98 – 3.45)	2.33 (1.71 – 3.17)	1.17 (0.91 – 1.51)	3.22 (2.32 – 4.46)	2.25 (1.55 – 3.27)
Ethnicity					
White	Reference	Reference	Reference	Reference	Reference
Black	1.55 (1.28 – 1.90)	1.01 (0.80 – 1.28)	1.28 (0.95 – 1.72)	1.23 (0.96 – 1.58)	1.33 (0.98 – 1.79)
Mexican American	1.09 (0.81 – 1.46)	1.22 (0.93 – 1.62)	1.79 (1.30 – 2.48)	1.19 (0.89 – 1.61)	1.64 (1.23 – 2.17)
Highest education level					
More than high school	Reference	Reference	Reference	Reference	Reference
High school	1.14 (0.94 – 1.38)	0.96 (0.77 – 1.21)	1.04 (0.79 – 1.37)	0.91 (0.68 – 1.21)	0.82 (0.62 – 1.09)
Less than high school	1.47 (1.11 – 1.93)	0.93 (0.75 – 1.15)	1.13 (0.84 – 1.52)	1.75 (1.36 – 2.26)	1.26 (0.98 – 1.62)
Smoking					
Never	Reference	Reference	Reference	Reference	Reference
Former	1.12 (0.95 – 1.32)	1.15 (1.00 – 1.33)	0.88 (0.70 – 1.10)	0.92 (0.75 – 1.13)	0.84 (0.61 – 1.14)
Current	1.77 (1.28 – 2.45)	1.33 (0.97 – 1.82)	1.10 (0.77 – 1.58)	1.07 (0.70 – 1.63)	1.51 (1.01 – 2.24)
Metabolic Status					
Hemoglobin A1c (per %)	1.01 (0.90 – 1.13)	1.01 (0.91 – 1.13)	1.04 (0.93 – 1.16)	0.96 (0.86 – 1.08)	1.00 (0.87 – 1.14)
Diabetes duration[†]	1.12 (0.96 – 1.30)	0.95 (0.83 – 1.08)	1.09 (0.94 – 1.26)	1.17 (1.00 – 1.37)	1.04 (0.88 – 1.25)
Waist circumference	1.03 (1.02 – 1.04)	1.02 (1.01 – 1.03)	1.02 (1.01 – 1.04)	1.02 (1.01 – 1.03)	1.02 (1.01 – 1.03)
Selected Comorbidities					
Obesity (BMI ≥30 kg/m^2)	1.21 (0.94 – 1.56)	1.18 (0.89 – 1.57)	1.16 (0.80 – 1.68)	1.06 (0.79 – 1.41)	1.37 (1.01 – 1.85)
Congestive heart failure	2.26 (1.45 – 3.53)	1.40 (0.86 – 2.28)	1.66 (1.14 – 2.41)	2.23 (1.43 – 3.47)	1.62 (1.01 – 2.60)
CHD	1.36 (1.04 – 1.77)	1.27 (0.99 – 1.64)	0.98 (0.69 – 1.39)	1.16 (0.88 – 1.53)	1.56 (1.14 – 2.13)
Stroke	1.08 (0.79 – 1.48)	1.24 (0.86 – 2.28)	1.06 (0.72 – 1.56)	1.16 (0.77 – 1.77)	1.15 (0.82 – 1.61)
Hypertension	1.50 (1.24 – 1.81)	1.37 (1.14 – 1.65)	1.20 (0.98 – 1.48)	1.22 (0.82 – 1.18)	1.42 (1.12 – 1.80)
Leg ulcer or amputation	1.85 (1.16 – 2.96)	1.94 (1.17 – 3.21)	1.50 (0.93 – 2.42)	1.81 (1.10 – 2.98)	3.11 (2.00 – 4.86)
Visual impairment	1.80 (1.46 – 2.22)	2.44 (1.87 – 3.17)	2.09 (1.70 – 2.58)	1.92 (1.45 – 2.56)	2.27 (1.85 – 2.78)
Arthritis	2.44 (2.00 – 2.98)	3.12 (2.54 – 3.82)	2.70 (2.19 – 3.33)	2.16 (1.80 – 2.59)	2.45 (1.96 – 3.07)
Hip fracture	3.72 (2.02 – 6.84)	4.66 (1.90 – 11.41)	3.62 (1.95 – 6.74)	2.98 (1.55 – 5.73)	3.02 (1.56 – 5.83)
COPD	2.10 (1.50 – 2.94)	1.46 (1.01 – 2.10)	1.74 (1.29 – 2.35)	2.04 (1.52 – 2.74)	1.68 (1.21 – 2.35)
Hearing impairment	1.73 (1.52 – 1.98)	1.86 (1.57 – 2.19)	1.65 (1.32 – 2.05)	1.63 (1.32 – 2.02)	1.62 (1.30 – 2.02)
Memory problems	2.87 (2.14 – 3.87)	3.03 (2.14 – 4.27)	2.78 (2.12 – 3.64)	3.69 (2.64 – 5.16)	3.38 (2.51 – 4.55)

* *At least one task in specified functional group was answered as "some difficulty", "much difficulty" or "unable".*

§ *As described in model 5 of Table 2*

† *For each increase in 10 years*

Online Appendix Figure 1: Nationally representative prevalence of functional disability among older adults with and without diabetes, NHANES 1999 – 2006

% older adults with any difficulty

 Prevalence of disability among older adults with diabetes (black) compared to those without diabetes (white), by functional group.