LIFE STARTS AT HOME: LINKING HOME ENVIRONMENT AND QUALITY OF LIFE FOR PEOPLE WITH DISABILITIES

ACCESSIBILITY FEATURES IN AMERICAN HOMES

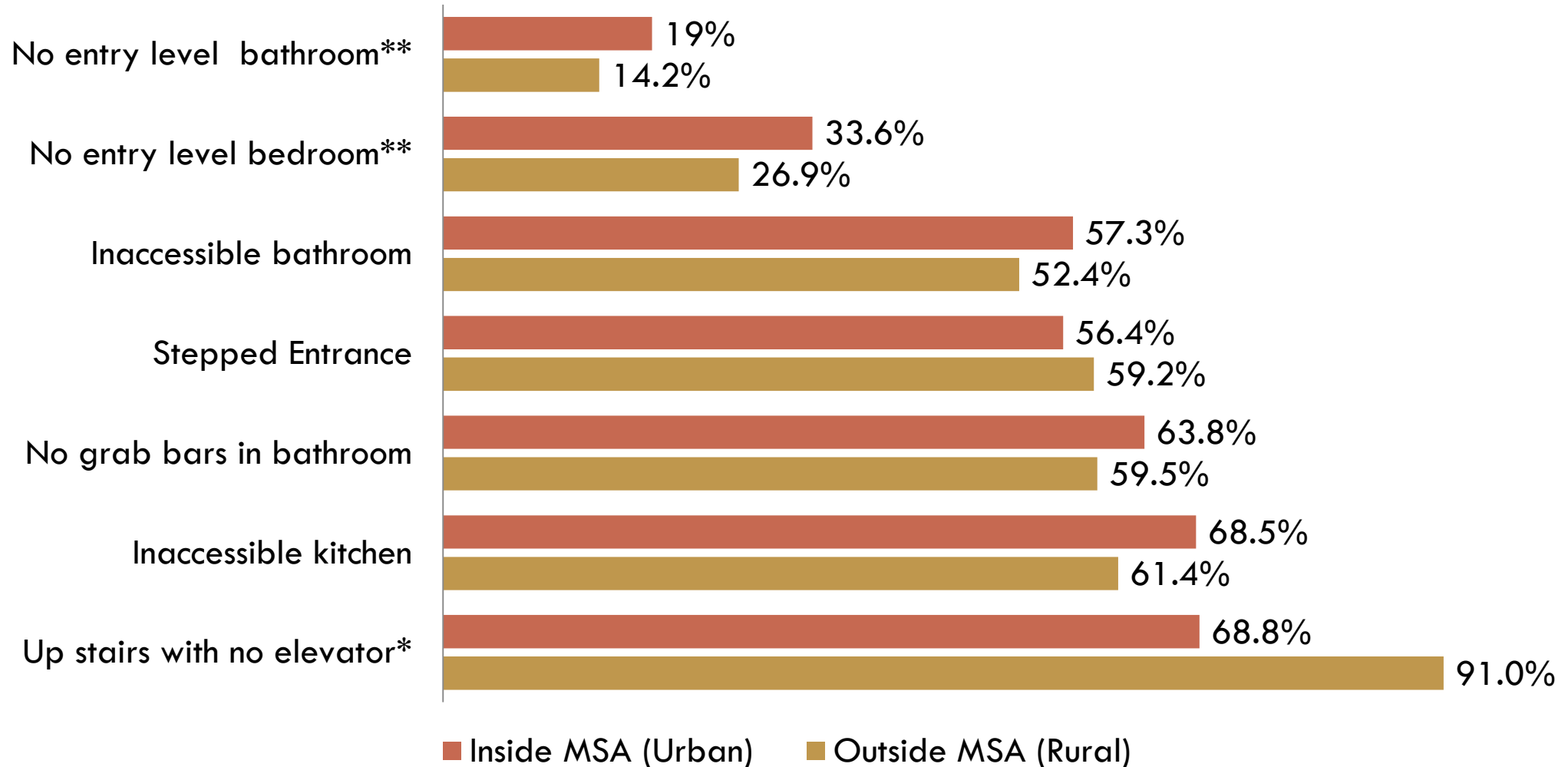| Features	Household member uses mobility equipment †	No household members use mobility equipment
Stepped Entrance	57.2%	60.9%
Upstairs with no elevator*	71.6%	81.7%
No grab bars in bathroom	62.3%	86.7%
No entry level bathroom**	18.5%	20.9%
No entry level bedroom**	32.4%	42.2%

Source: American Housing Survey

† Cane, crutch, manual wheelchair, power wheelchair or scooter

 * Of apartments above the ground floor

** Of units with more than one floor

Rate of Inaccessible Housing: Urban Rural Comparison
(Of HH with individuals using a mobility device)

Category	Inside MSA (Urban)	Outside MSA (Rural)
No entry level bathroom**	19%	14.2%
No entry level bedroom**	33.6%	26.9%
Inaccessible bathroom	57.3%	52.4%
Stepped Entrance	56.4%	59.2%
No grab bars in bathroom	63.8%	59.5%
Inaccessible kitchen	68.5%	61.4%
Up stairs with no elevator*	68.8%	91.0%

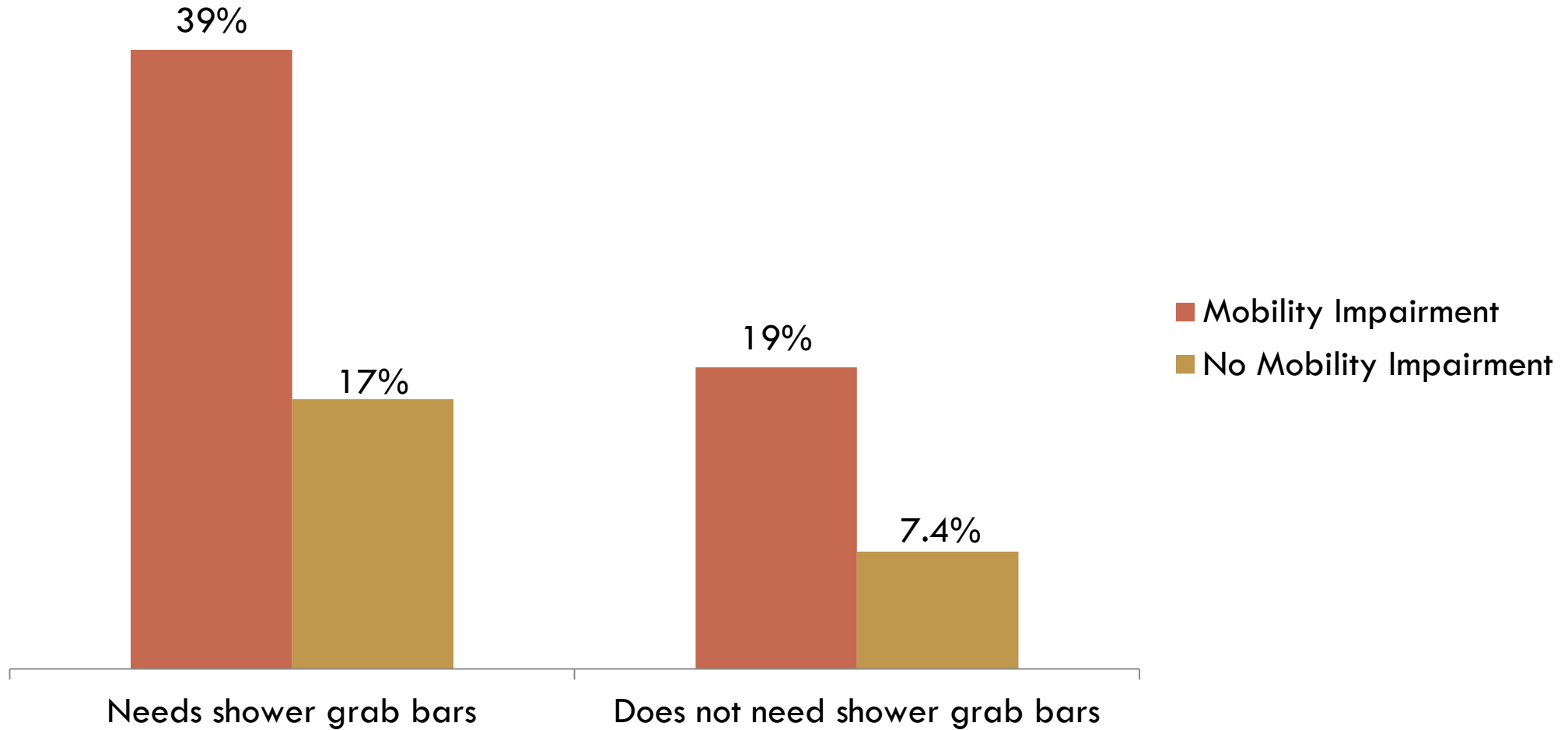■ Inside MSA (Urban)   ■ Outside MSA (Rural)

PERCENTAGE OF MAXIMAL EXERTION REPORTED ACROSS HOME ACTIVITIES FOR INDIVIDUALS WHO REPORTED MOBILITY IMPAIRMENT

Home Activity	Mobility Impairment (n=116)	No Mobility Impairment (n=54)
Cleaning	39.3%	19.8%
Bathing	33.7%	10.7%
Using Storage Spaces	28.5%	14.6%
Entering and Exiting	27.0%	10.4%
Preparing Food	23.7%	8.2%
Using the Toilet	23.6%	7.4%
Using Bedroom	20.3%	8.7%

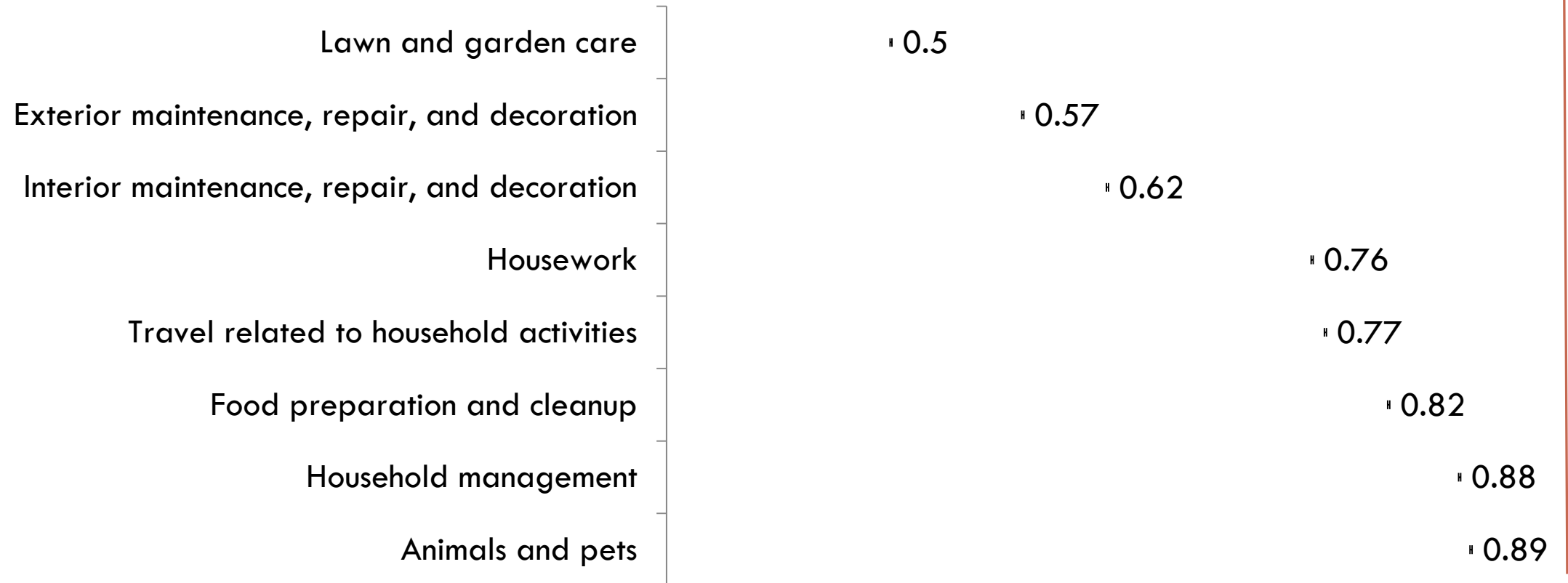All differences are significant at <0.01
Source: Home and Health Survey

PERCENT MAXIMUM EXERTION USED WHILE BATHING

Legend:
- Mobility Impairment
- No Mobility Impairment

Needs shower grab bars:
- 39%
- 17%

Does not need shower grab bars:
- 19%
- 7.4%

Source: Home and Health Survey

NON-MOBILITY IMPAIRED SPEND ABOUT 33% MORE TIME (38 MIN/DAY) ON HH ACTIVITIES

IRRs from GLM Poisson Regression

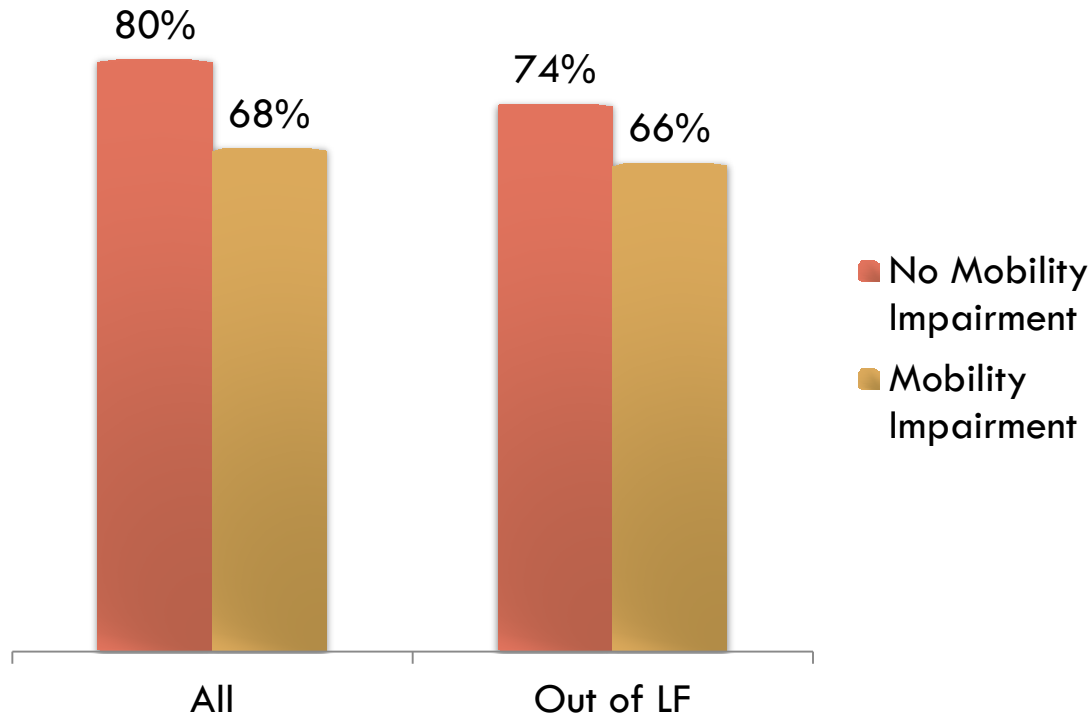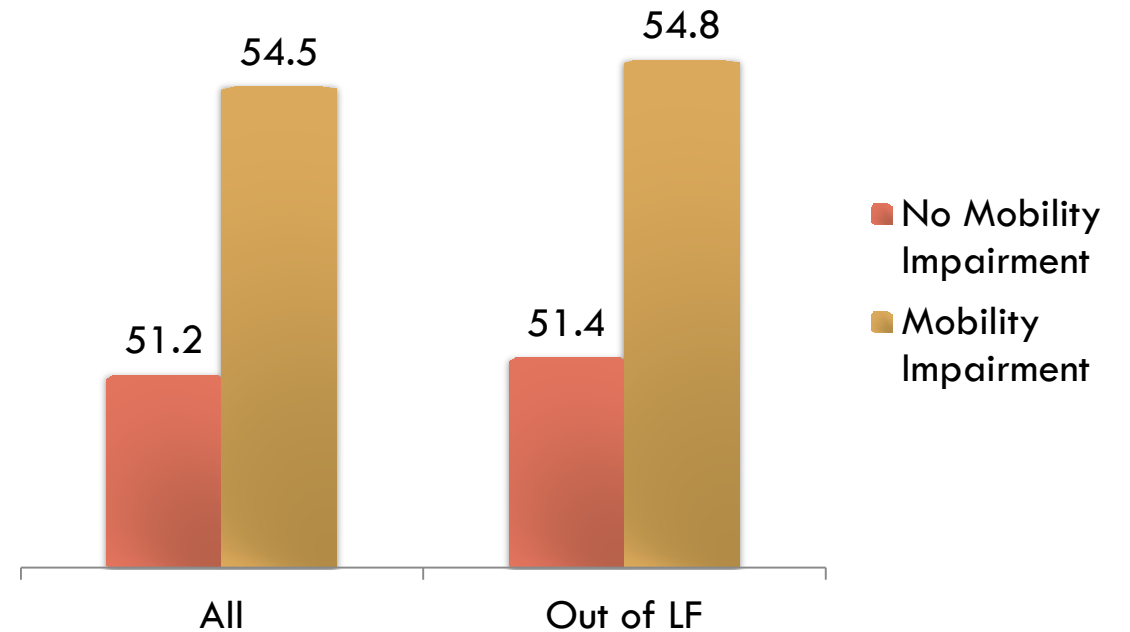| Activity	IRR
Lawn and garden care	0.5
Exterior maintenance, repair, and decoration	0.57
Interior maintenance, repair, and decoration	0.62
Housework	0.76
Travel related to household activities	0.77
Food preparation and cleanup	0.82
Household management	0.88
Animals and pets	0.89

Source: American Time Use Survey

PEOPLE WITH MOBILITY IMPAIRMENTS ARE LESS LIKELY TO REPORT ANY TIME SPENT GROOMING, BUT THOSE WHO GROOM SPEND MORE TIME GROOMING.

% who report anytime grooming

- No Mobility Impairment
- Mobility Impairment

All: 80%, 68%
Out of LF: 74%, 66%

Mean minutes grooming, for those who groom

- No Mobility Impairment
- Mobility Impairment

All: 51.2, 54.5
Out of LF: 51.4, 54.8

Source: American Time Use Survey

GLM REGRESSION OF SOCIAL ACTIVITIES AND BATHROOM EXERTION

Variables	IRR	SE	z	p	95 CI
Bathing exertion	0.74	0.07	-2.97	0.00	0.613; 0.905
Mobility impairment	0.62	0.11	-2.69	0.01	0.433; 0.877
Subjective Health					
Very Good	0.54	0.27	-1.21	0.23	0.203; 1.457
Good	0.55	0.27	-1.21	0.23	0.211; 1.445
Fair	0.61	0.30	-1	0.32	0.233; 1.606
Poor	0.39	0.23	-1.58	0.11	0.123; 1.253
White	0.76	0.13	-1.63	0.10	0.551; 1.507
Partnered	0.64	0.16	-1.79	0.07	0.388; 1.044
Lives with other people	1.40	0.26	1.81	0.07	0.973; 2.012
Constant	10.9	5.51	4.72	0.00	4.044; 29.354

Note: IRR= Incidence rate ratio; SE= standard error; Analysis completed using generalized linear model with a log link and a Poisson distribution; Source: Home and Health Survey (N=159)

FOR THE MOBILITY IMPAIRED, HH ACTIVITIES ARE ASSOCIATED WITH MORE PAIN, FATIGUE, AND STRESS (BUT ALSO MORE MEANING)

	Pain (z)	Tired (z)	Stress (z)	Happy (z)	Meaning (z)
HH Activities	0.06***	0.07***	0.01	-0.17***	-0.09***
	(0.00)	(0.00)	(0.23)	(0.00)	(0.00)
Mobility Impairment	0.82***	0.27***	0.23***	-0.17***	0.02
	(0.00)	(0.00)	(0.00)	(0.00)	(0.35)
HH Activities * Mobility Impairment	0.06*	0.05	0.06*	0.09**	0.09**
	(0.02)	(0.05)	(0.04)	(0.00)	(0.00)

Regression with individual random-effects of well-being measure (standardized) on indicators for doing a HH activity, mobility impairment, and the interaction of the two, plus controls for sex, age, education, employment, number of kids, marital status, how well they slept the night before, their cumulative exertion (MET) to that point in the day, interview day, interview month, interview year, holiday, metro/nonmetro, activity duration, activity start hour. Standard errors clustered on the individual in ( )'s.

AUTHORS AND ACKNOWLEDGEMENTS

Authors: Craig Ravesloot PhD, Lillie Greiman MA, Bryce Ward, PhD, Andrew Myers