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Specialist utilization of nursing home residents and elderly living at home

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Background

Specialist utilization of people with need for long-term care differs from those without need for long-term care. However, it is not clear whether these differences are attributable to morbidity differences between these groups.

We compare health care utilization of older people with and without

Methods

MVP-STATE

Data source: Nationwide claims data from 2015
Study population: 100,000 elderly aged 60 years or above which were members of the statutory health insurance AOK
Analysis: Zero-inflated poisson regression to investigate

the probability of having any specialist visit or not

need for care among 12 specialties while controlling for morbidity differences between these groups. Among those elderly with need for care, we further differentiate between nursing home setting and home care setting. 2) the intensity of specialist care received

Control variables: Age, gender, level of long-term care need, mortality, general practitioner utilization, residential density, and morbidity (31 disease categories)

Results					
Medical specialty	Nursing home Reference group: elder		Home care Iy without need for care		Analysis applies to elderly with at least one diagnosis from the
	Visit (yes/no)	Intensity of care	Visit (yes/no)	Intensity of care	following disease categories (adapted from ICD-10-GM)
Internist	-	-	-	+	Arthropathy, coronary disease, diabetes mellitus, heart disease, hypertonia, mono- and polyneuropathies, metabolic disorders
	-	-	-	0	Cerebrovascular diseases, respiratory diseases
	-	Ο	-	+	Nutrition-related disease, intestinal disease, renal failure, thyroid disorders
	-	Ο	-	0	palsy/paresis, Parkinson's disease
		-		-	Motor impairment (based on linear regression analysis)
Cardiologist	-	-	-	0	Coronary disease, heart disease, hypertonia
Eye specialist		-		-	Diseases of the eye (based on linear regression analysis)
Orthopedist	-	-	-	-	Arthropathy, osteopathies and chondropathies, spinal disease
		-		-	Motor impairment (based on linear regression analysis)
	-	Ο	-	0	Injuries
Gynaecologist				-	Disorders of female genital tract (based on linear regression analysis)
	-	Ο	-	0	Aconuresis
Urologist	-	Ο	-	0	Aconuresis
	0	Ο	-	0	Prostate disease
Surgeon	0	0	0	0	Skin disease, injuries
Dermatologist	-	0	-	0	Bedsore/decubitus
	0	Ο	-	0	Skin disease
ENT-specialist		0		-	Diseases of the ear (based on linear regression analysis)
Nephrologist	-	0	0	+	Renal failure
Pneumologist	-	Ο	-	0	Respiratory diseases
Psychiatrist / Neurologist	+	+	+	+	Dementia-related disease
	0	+	+	+	Depression
	+	+	Ο	+	Palsy/paresis, Parkinson's disease, cerebrovascular diseases
	+	+	Ο	0	Neuroses, disorders due to psychoactive substance use, delusional/personality disorders
	+	+	-	+	Mono- and polyneuropathies

+ = higher utilization probability/intensity than reference group | - = lower utilization probability/intensity than reference group | O = no significant difference

Conclusions

People with need of care are less likely to have a specialist visit than people without need of care – this applies to nearly all specialities even when differences in morbidity are controlled. Yet, given a first specialist visit the intensity of care between these groups is similar.
 Nursing home residents might face access barriers to specialist care – however, the underlying mechanisms are still unclear.



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