

## Introduction

For many years the number of postmortem kidney donations in Bavaria has not matched the increasing number of patients, who can only survive with renal replacement therapy (dialysis). The serious lack of organs has led to an increasing acceptance of older donors. Besides the higher rate of hypoxemia as the cause of brain death, these donors often present several comorbidities, such as reduced creatinine clearance, cardiovascular diseases and diabetes. In this study we investigate the incidence of comorbidities in kidney donors in Bavaria aged  $\geq 65$  years, and their acceptance rate for transplantation.

## Methods

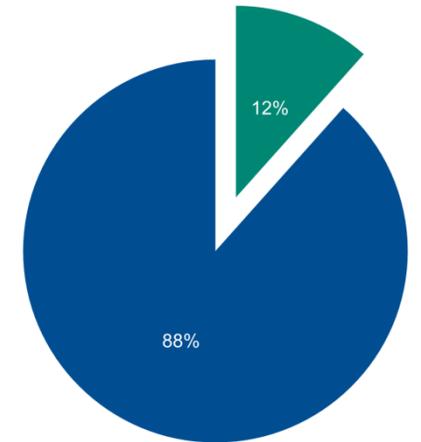
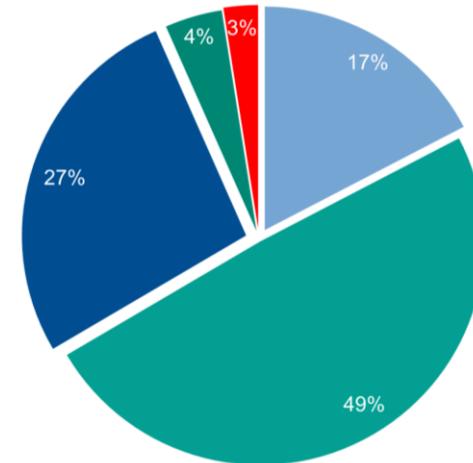
All donors from 2009 until 2013 in Bavaria aged  $\geq 65$  years (n=242) were evaluated. Donor records were examined for the presence of the following comorbidities: arterial hypertension, diabetes mellitus, elevated creatinine levels ( $\geq 1.5$  mg/dl) and cardio-pulmonary resuscitation. We analysed the acceptance of kidneys from these donors in relation to the number of comorbidities.

## Results

Between January 2009 and December 2013 850 donors were realized in Bavaria. 242 (28.5%) of these donors were aged  $\geq 65$  years. The average age in this group was 72.5 years; the oldest donor was 86 years.

Number of comorbidities	n	%	Number (%) of transplanted kidneys		
			2	1	0
0	42	17,4	39 (92,8)	1 (2,4)	2 (4,8)
1	119	49,1	108 (90,8)	10 (8,4)	1 (0,8)
2	65	26,9	45 (69,2)	4 (6,2)	16 (24,6)
3	10	4,1	4 (40)	1 (10)	5 (50)
4	6	2,5	1 (16,7)	1 (16,7)	4 (66,6)

In 88,4 % (n=214) of all these donors at least one kidney was transplanted.



■ No comorbidities ■ 1 comorbidity ■ 2 comorbidities ■ 3 comorbidities ■ 4 comorbidities ■ No kidney transplanted ■ At least one kidney transplanted

## Conclusions

A high proportion of donors aged  $\geq 65$  years have multiple comorbidities. Nevertheless, kidneys from these donors are usually accepted for transplantation.

Retrospective analysis of the long term results of these kidneys for the aforementioned period is planned.

## Proposal

A retrospective analysis of the outcomes for the transplanted kidneys of donors aged  $\geq 65$  years, with and without comorbidities, for the aforementioned period is planned. However, for this the cooperation of the Bavarian transplanting centers is required