

## RISK FACTOR FOR 2-YEAR SURVIVAL OF INCIDENT PD PATIENTS: MULTICENTER STUDY



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**INTRODUCTION AND AIMS:** In many developed countries, peritoneal dialysis (PD) patients have better early survival and similar overall survival, when compared with patients treated with conventional in-center hemodialysis (HD). Despite the potential advantages, PD use is highly variable across countries and according to some reports, the proportion of dialysis patients treated with PD declined among developed countries. At the same time, relatively short technique survival compared to center-based HD remains a barrier towards increasing PD utilization. Data from developing countries are less known and the aim of the present study was to analyze technique and patients survival, including risk factor, among cohort of incident dialysis patients.

**METHODS:** This multicenter study included 62 incident patients from 12 dialysis centers in Serbia (who started CAPD during 2014), mean age 52±12 years. Initial data included demographic, underlying renal disease, laboratory data, comorbidity, residual renal function, self or assisted PD. In addition, risk factor for survival included data about peritonitis, ESI, hospitalization of any cause.

RESULTS: In 26 (42%) PD was the only solution, previous HD had 16 (26%) of patients (48 months mean)

Table 1. Data on incident CAPD patients

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At the start of CAPD	No, %	
Mean age	52±12	
Ethiology of ESRD		
DM	22 (35%)	
HTN	16 (26%)	
GN	10 (16%)	
APCKD	5 (8%)	
OTHER	6 (10%)	
UN	3 (5%)	
Diuresis		
<400 ml	47 (76%)	
>400 ml	15 (24%)	
Self CAPD	40 (64.5%)	
Assisted CAPD	22 (35.5%)	
Initial proscription		
4x2	54 (88%)	
isotonic	32 (60%)	
Icodextrin	5 (8%)	
BMI		
<20	10	
20-25	15	
26-30	25	
>30	12	

Table 2. Clinical parameters of incident CAPD patients

At the start of CAPD	No, %
Malnutrition	35 (57%)
Serious malnutrition	9 (17%)
CRP>10 mg/L	35 (57%)
Hb<10g/L	44 (72%)
Hyper P	22 (35%)
Hypocalcemia	28 (45%)

Table 3. Modality-related complications

Complications	No, %
Peritonitis incidence	1/84 ptm
ESI incidence	1/281 ptm
Catheter malfunction (replacement)	9 (14.5%) 1/93 ptm
Hernias	0
Hospitalizations	1/36 ptm
Method-related	1/60 ptm

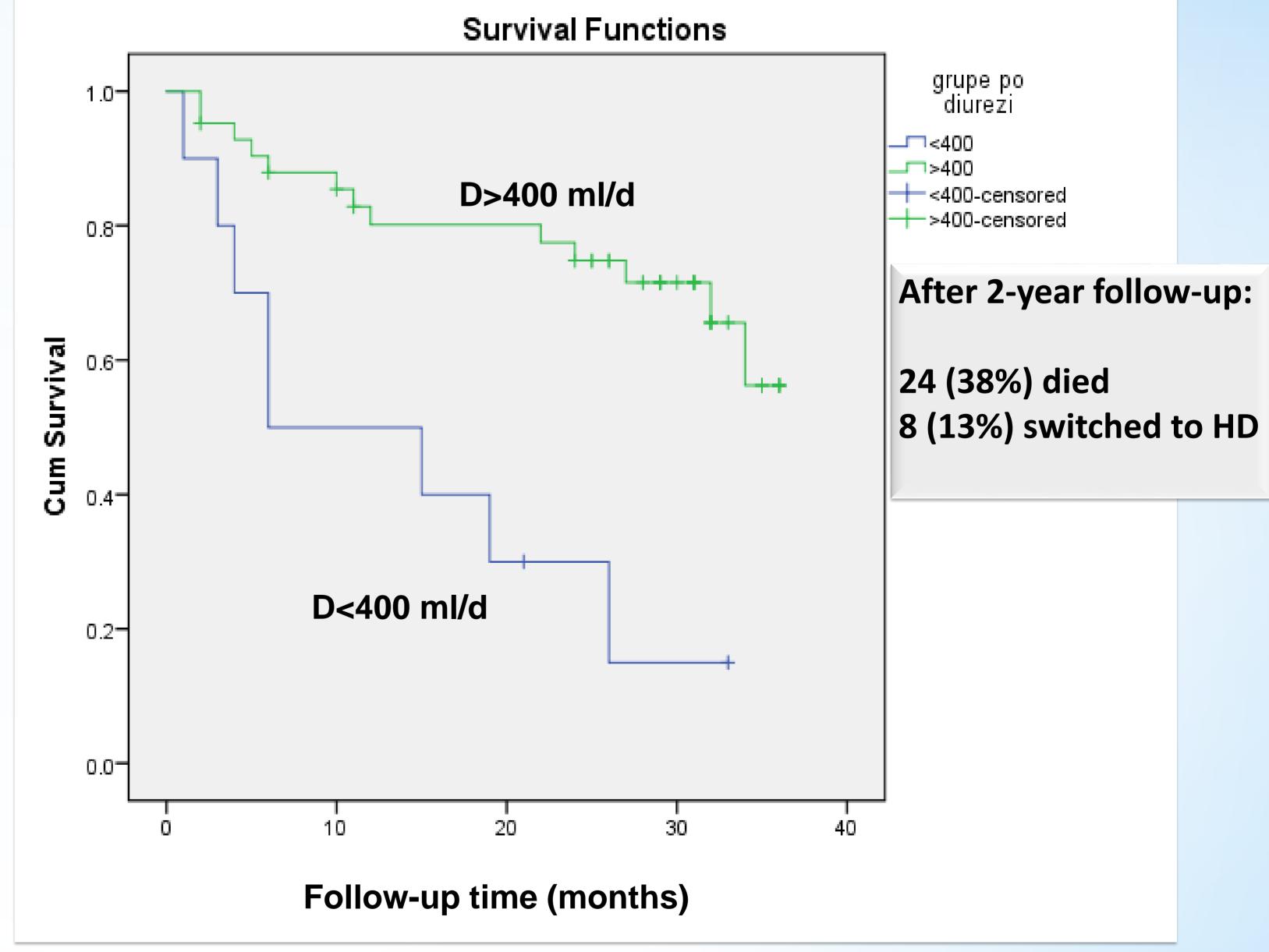


Figure 1. Survival of incident CAPD patients according to RRF

**Univariate Cox regression analysis** confirmed that significant RF for Mt were age, dieresis <400ml, having assistance in PD exchanges, PD as self choice, CRP, serum albumin, Tsat and PD catheter replacement. However, **multivariate analysis** marked diuresis <400ml as the only significant predictor of death

**CONCLUSION:** Patient selection for CAPD was very unfavorable with high two-year mortality. Among multiple risk factors, residual renal function at the start of CAPD was the only significant RF for Mt.



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