VASCULAR ACCESS IN ADULT HEMODIALYSIS PATIENTS IN GREECE: CONCLUSIONS THROUGH A CROSS-SECTIONAL ANALYSIS

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Background and aim

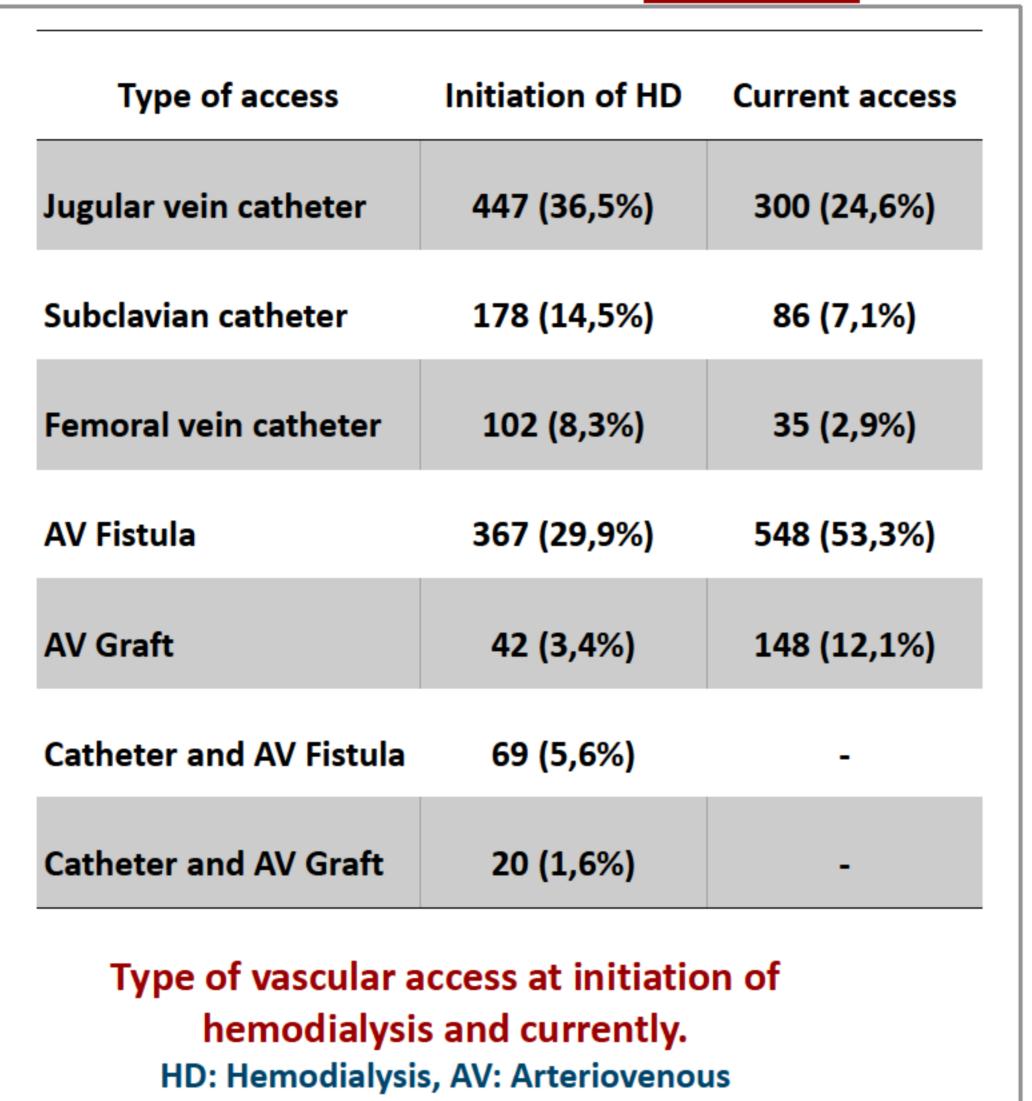
Vascular access (VA) continues to be the "Achilles heel" in haemodialysis (HD) and despite the improvements in dialysis technology, VA complications are a major cause of morbidity and mortality in haemodialysis patients. The aim of this study was to assess the type of VA used [native arteriovenous fistula (AVF), arteriovenous graft (AVG) and central venous catheter (CVC)] in Greek adult HD patients at the initiation and during the course of HD as well as to recognize factors that are associated with the use of each type of VA.

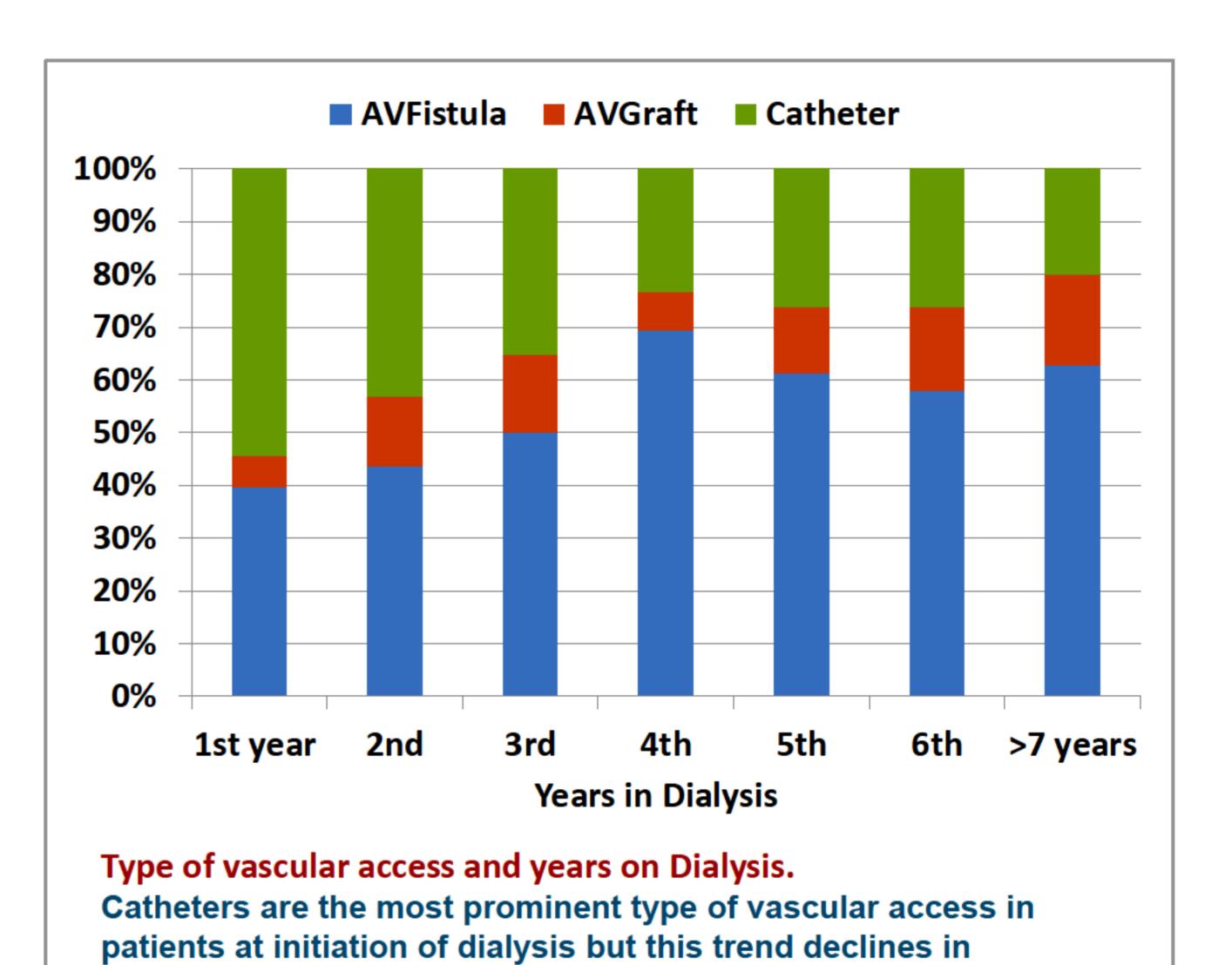
Methods

In this cross-sectional analysis, we used a prefix questionnaire which was sent to dialysis units (public hospitals and private sector) covering the geographical area of mainland Greece and the islands. Sampling size was estimated to 15% of the Greek dialysis population. Apart from type of VA and demographic patient characteristics, dialysis duration and concurrent comorbidities such as diabetes, heart failure, coronary arterial disease and obesity were also examined. Data were analyzed using the χ^2 , student's t and ANOVA tests.

Results

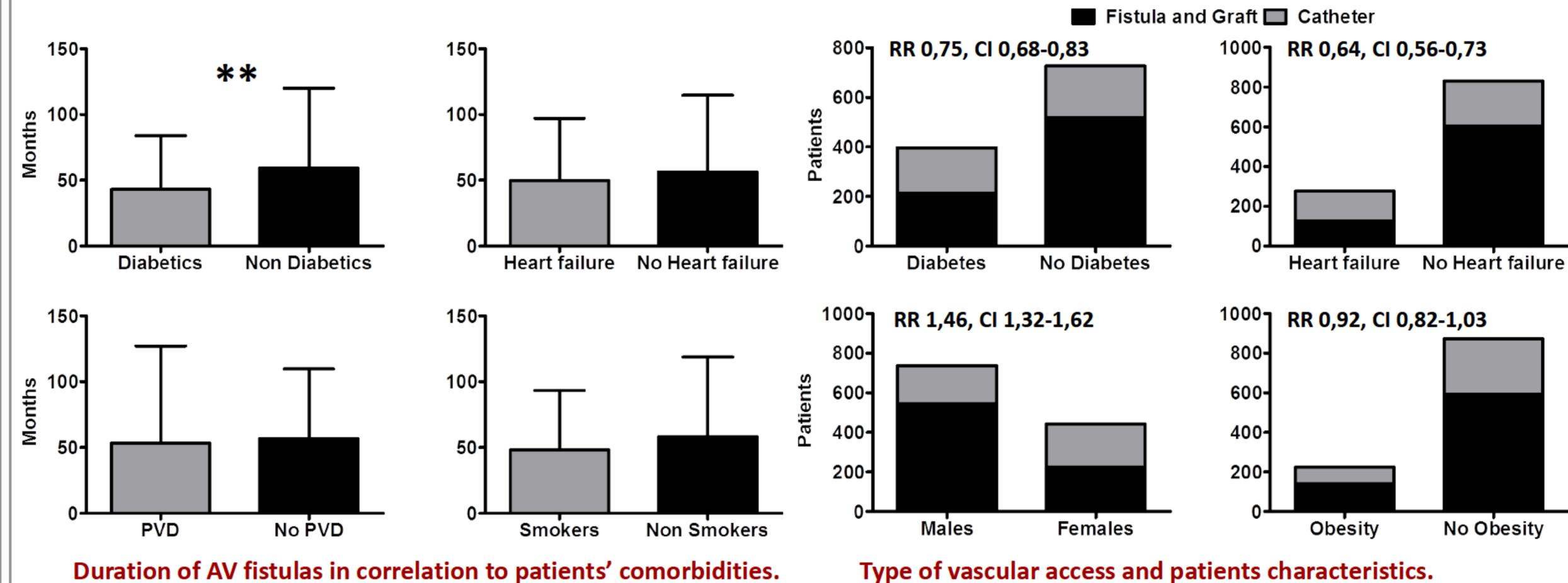
Patients included	N=1251
Mean age (years ± SD)	66,9 ± 14,9
Gender (M/F)	762 / 449
Mean HD duration (months)	54,2
Primary renal diseases	
Diabetic nephropathy	282 (22,7%)
Glomerulonephritis	192 (15,5%)
Hypertension	118 (9,5%)
Polycystic kidney disease	103 (8,2%)
Cardiorenal syndrome	20 (1,6%)
Other/Unknown	526 (42%)
Patients characteristics and causes of ESRD.	





patients with longer periods on HD.

Comorbidities Ν Hypertension 918 (73,4%) Diabetes 409 (32,7%) Ischemic heart disease 363 (29%) Smoking 285 (22,8%) **Heart failure** 281 (22,5%) Obesity 225 (18%) Peripheral vascular disease 223 (17,8%) List of comorbidities



Conclusions

Diabetes is associated with a functioning AV fistula for a

✓ Central venous catheter is the most common type of VA at initiation of HD in Greece.

shorter period.

- ✓ After one year on HD the AV fistula is the most common type of VA.
- ✓ AV fistula is more common in male than in female patients.
- ✓ Diabetes and heart failure are predisposing factors for maintaining a catheter access.



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Diabetes, heart failure and female gender were associated with

increased prevalence of central venous catheter.

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