## A systematic comparison of the performance of the three widely used cardiac biomarker-based staging systems for the management of patients with systemic light chain amyloidosis

Retrospective study

1224 Patients with systemic light chain amyloidosis (AL) (Median age 63 years, 60% male)

Median estimated time of observation

45.5 months (95% CI, 41.7 to 50.8)



# Evaluation of the influence of two high-risk conditions on the applicability of the most widely staging systems (MAYO2004, MAYO3b and MAYO2012) Overall survival (months)

Patients with impaired renal function eGFR\*<50 ml/min/1.73m<sup>2</sup>
\*Estimated glomerular filtration rate

17.5 vs 52.9 (control) p < 0.0001

18

83 Patients with any kind of atrial arrhythmia (AF)

12.6 vs 45.5 (control) p < 0.0001

- Risk of death was almost doubled by either comorbidity
- MAYO3b staging system is superior to the MAYO2004 and MAYO2012 systems in patients with impaired kidney function



## Evaluation of additional pronostic value of eGFR<50 and AF in the context of the three staging systems

	prognostic value of AF	prognostic value of eGFR < 50
MAYO2004	significant	significant
MAYO3b	significant	non significant
MAYO2012	significant	significant
	MAYO3b	MAYO3b significant

• eGFR < 50 did not retain the prognostic significance only with MAYO3b system



### Comparison of the overall performance of these staging systems

### Kaplan-Meier estimates

• MAYO3b system was superior in detecting the patients with the best and worst prognosis in the entire cohort and in each subgroup

Dittrich et al., Haematologica, 2019