

Expérience française du Tafamidis et impact à long terme



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Current therapeutic concepts in ATTR-CM¹⁻³

Treatment of
cardiac involvement



Liver

- Liver transplantation
- TTR silencers
- Gene editing



TTR tetramer

TTR stabilizers
(tafamidis)



TTR dissociation



Amyloid fibril formation



Deposition of fibrils

Oligomer
disruption

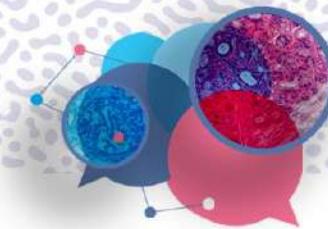
Amyloid fibril
degraders

Image adapted from Ruberg FL, et al. *J Am Coll Cardiol* 2019;73:2872–91 and Emdin M, et al. *Eur Heart J* 2019;40:3699–706.

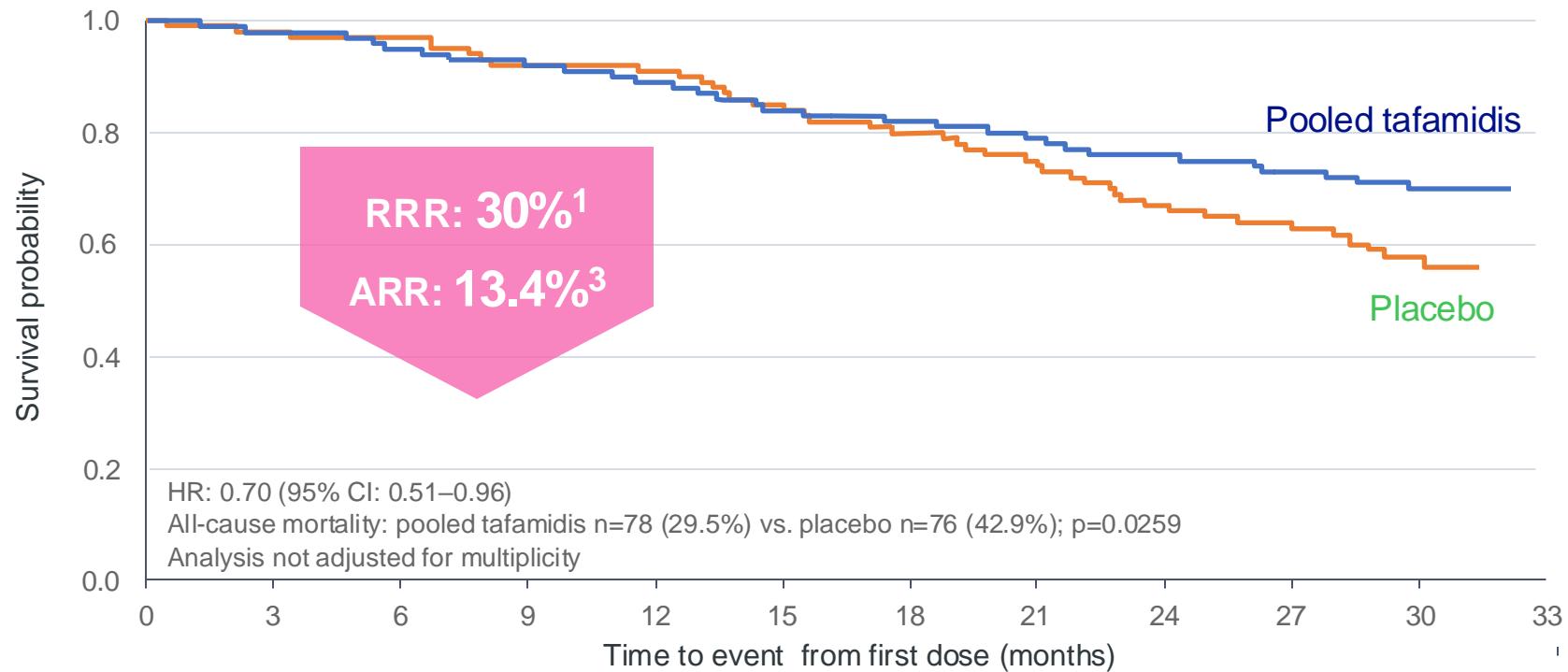
Tafamidis is the only licensed treatment in ATTR-CM that specifically targets TTR destabilisation —the cause of disease pathogenesis— and fortifies the TTR tetramer to preserve its natural function^{3, 5–12}

ATTR-CM, transthyretin amyloid cardiomyopathy; TTR, transthyretin.

1. Ruberg FL, et al. *J Am Coll Cardiol* 2019;73:2872–91; 2 Emdin M, et al. *Eur Heart J* 2019;40:3699–706; 3. Bulawa CE, et al. *Proc Natl Acad Sci USA* 2012;109:9629–34; 4. Tess DA, Maurer TS, Li Z, et al. *Amyloid* 2023;30(2):208–19; 5. Coelho T, et al. *Neurology* 2012;79(8):785–92; 6. Johnson SM, et al. *J Mol Biol* 2012;421(2–3):185–203; 7. Donnelly JP, Hanna M. *Cleve Clin J Med* 2017;84(12 Suppl 3):12–26; 8. Sekijima Y. *J Neurol Neurosurg Psychiatry* 2015;86(9):1036–43; 9. Coelho T, et al. *Neurol Ther* 2016;5(1):1–25; 10. Adams D, et al. *Expert Opin Pharmacother* 2016;17(6):791–802; 11. Monteiro C, et al. *Amyloid* 2018;25(2):120–8; 12. Judge DP, et al. *J Am Coll Cardiol* 2019;74(3):285–95; 13. VYNDAQEL 61 mg (tafamidis) Summary of Product Characteristics.



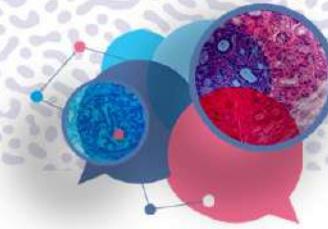
Tafamidis reduced all cause-mortality by 30% in ATTR-CM over 30 months vs placebo



No. at risk (cumulative no. of events)¹

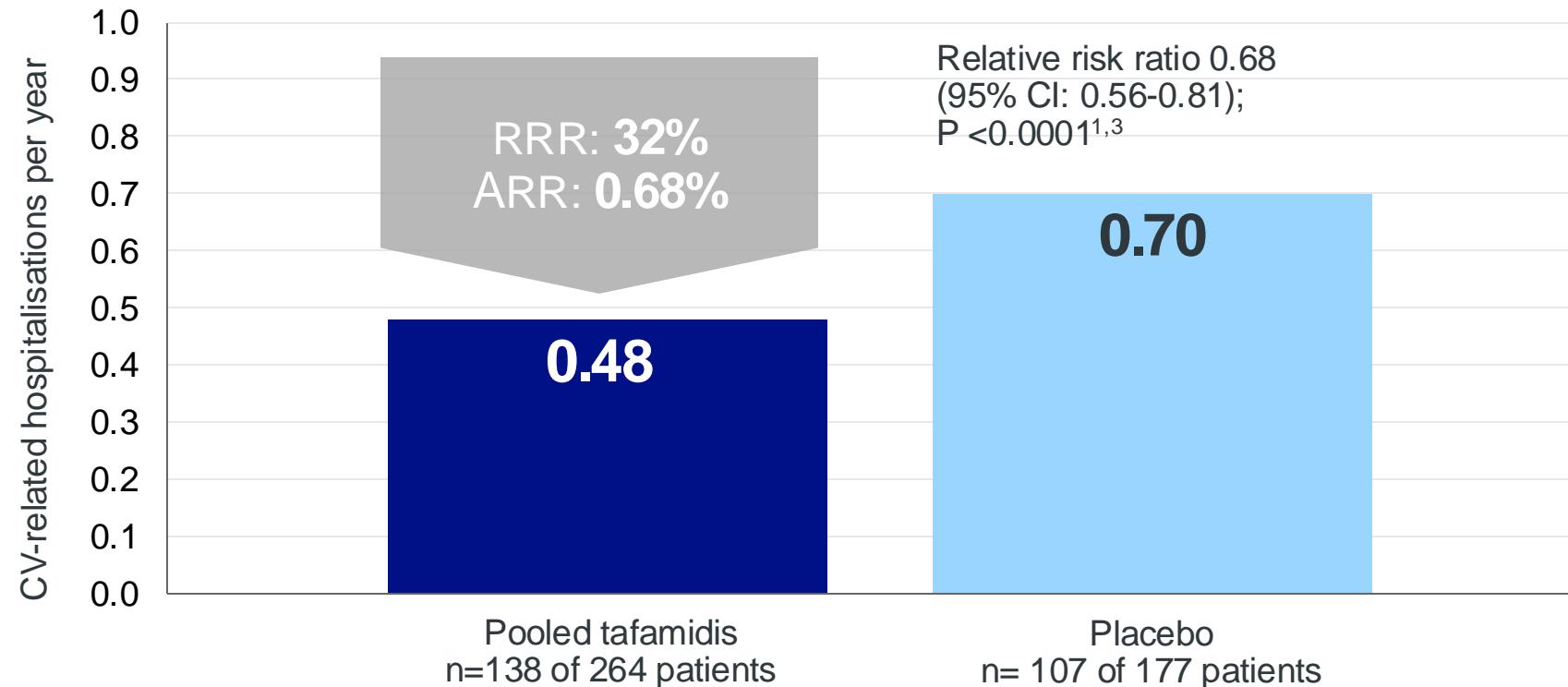
	Figure adapted from Maurer MS, et al. N Engl J Med 2018;379:1007–16.											
Pooled tafamidis	264 (0)	259 (5)	252 (12)	244 (20)	235(29)	222 (42)	216 (48)	209 (55)	200 (64)	193 (71)	99 (78)	0 (78)
Placebo	177 (0)	173 (4)	171 (6)	163 (14)	161 (16)	150 (27)	141 (36)	131 (46)	118 (59)	113 (64)	51 (75)	0 (76)





Tafamidis significantly reduced CV-related hospitalisations vs placebo over 30 months¹

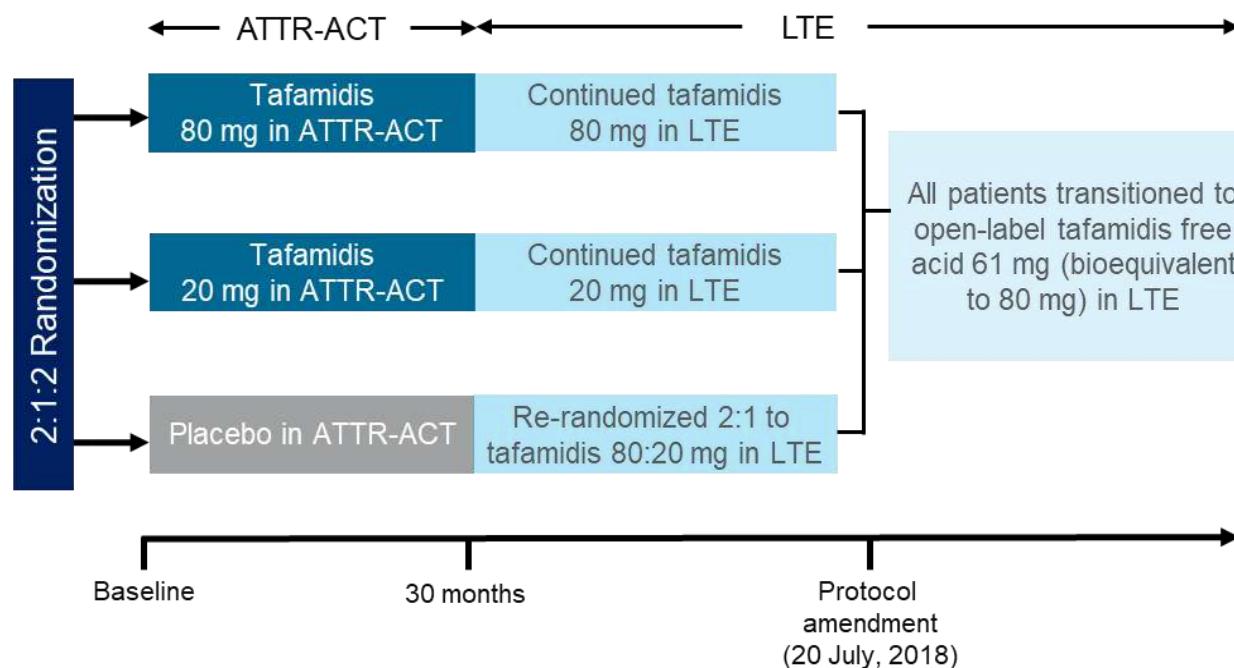
Individual component: CV-related hospitalisations frequency during 30 months^{1*}



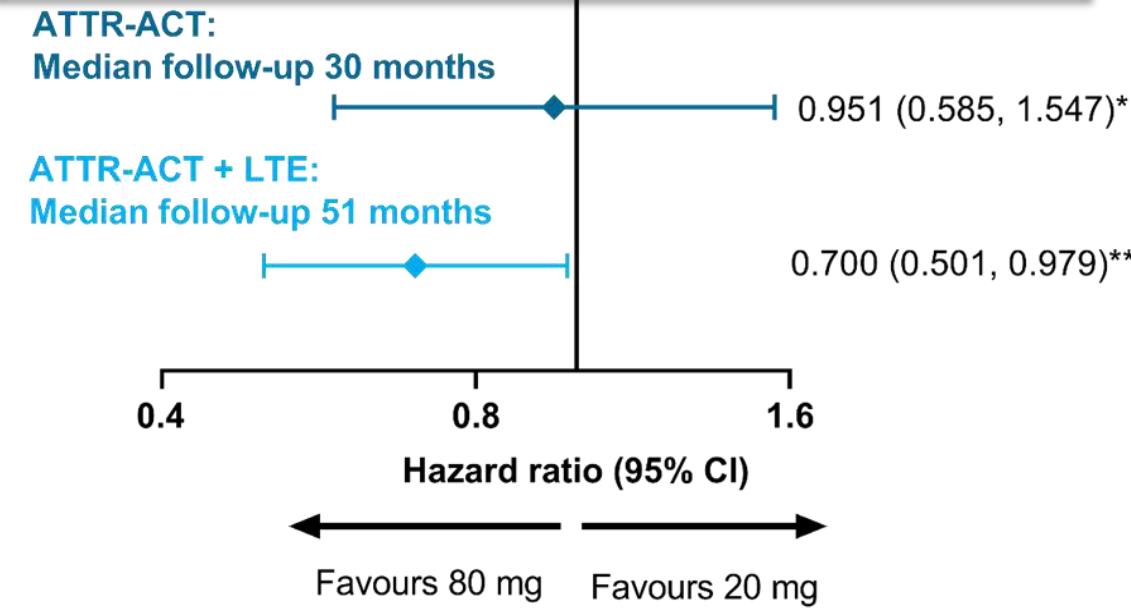


Dose efficacy of Tafamidis in ATTR-CA

After 30 months treatment in ATTR-ACT, patients could continue in the long-term extension trial (LTE)



All-cause mortality was significantly reduced with tafamidis 80 mg / 61 mg compared with tafamidis 20 mg in ATTR-ACT combined with the LTE



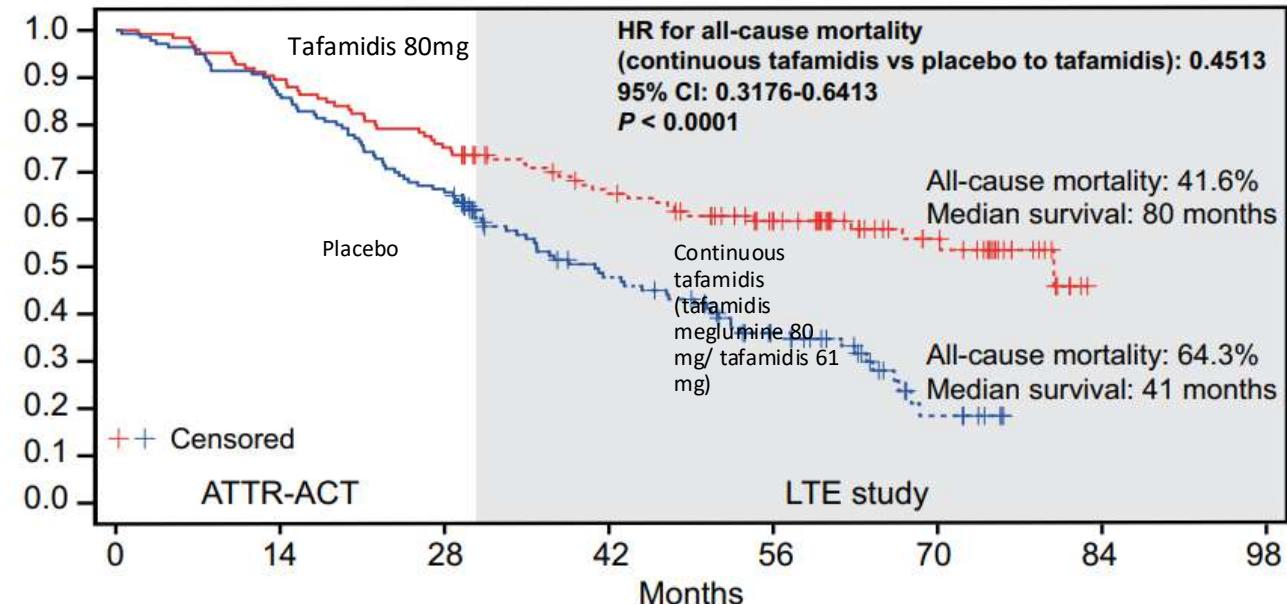
*P = 0.8404 **P = 0.0374



Post-hoc analysis of ATTR-ACT and LTE: All-cause mortality in patients <80 and ≥80 years of age treated with Tafamidis

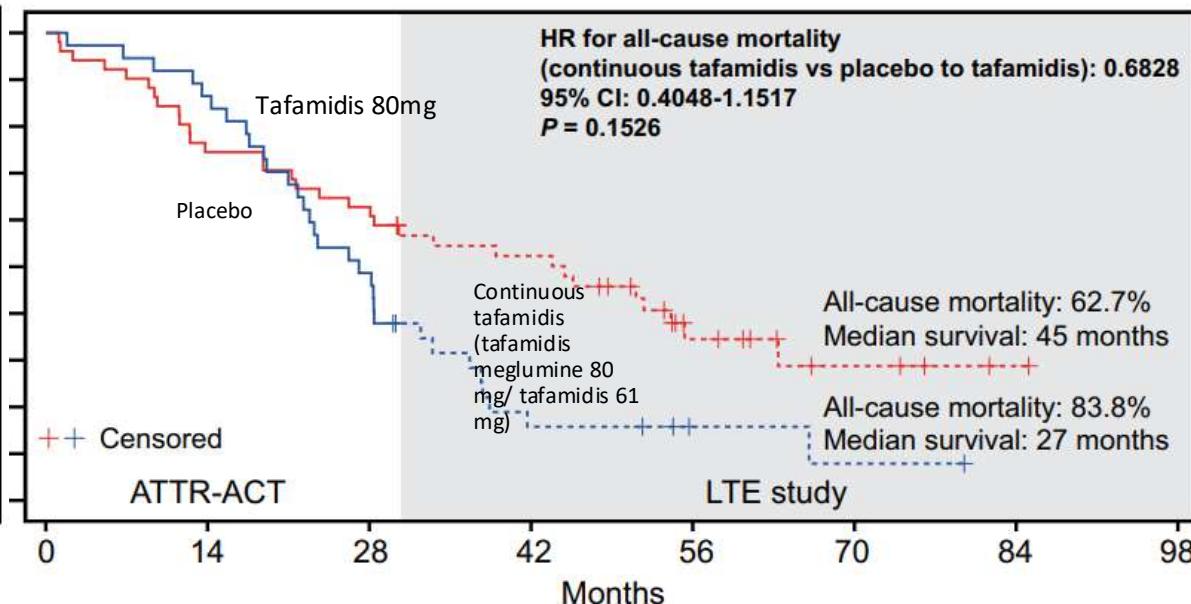
Patients aged <80 years

125 received tafamidis and 140 received placebo

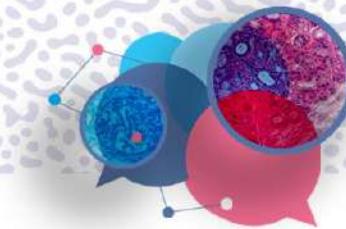


Patients aged ≥80 years

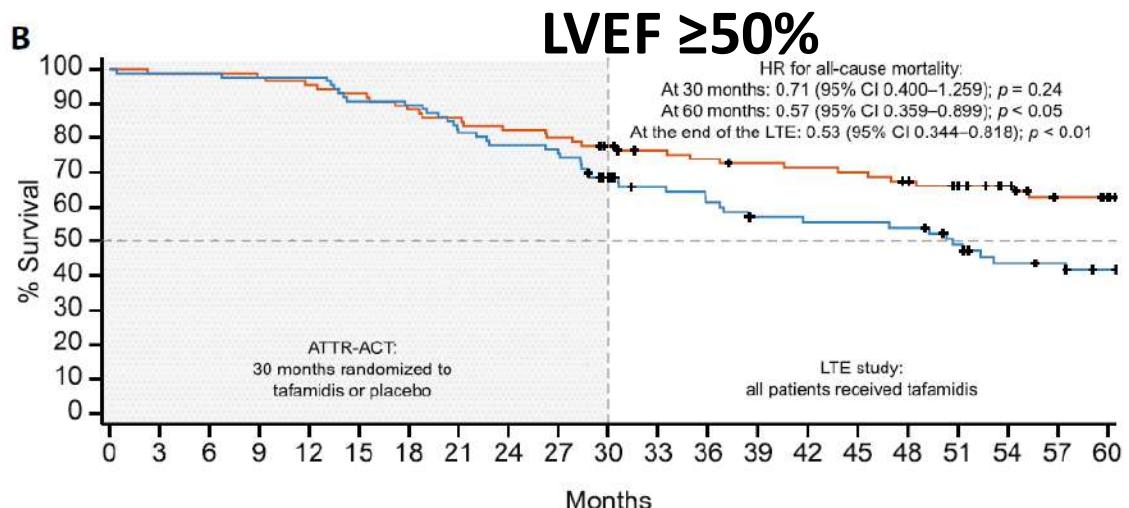
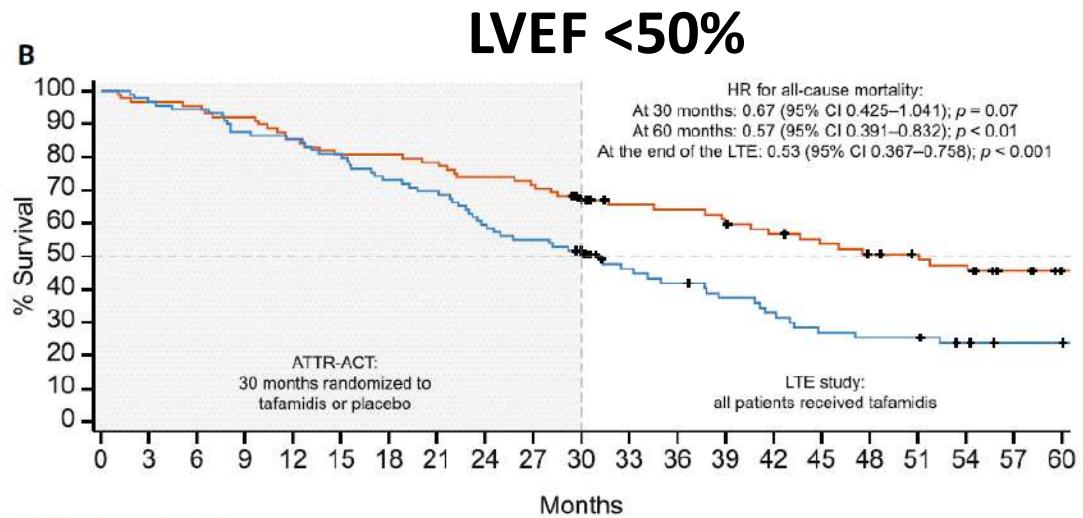
51 received tafamidis and 37 received placebo



The use of continuous tafamidis in octogenarians resulted in longer median survival and lower mortality than those initially treated with placebo before transitioning to tafamidis free acid 61 mg



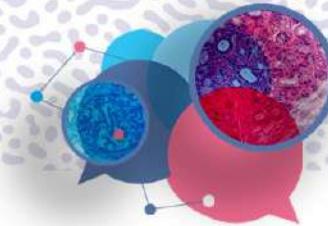
Post-hoc analysis ATTR-ACT LTE study of the effect of Tafamidis on patients with mildly reduced/reduced or preserved ejection fraction



Figures reproduced from Drachman B, et al. Eur J Heart Fail 2024 doi: 10.1002/ejhf.3330. — Continuous tafamidis

— Placebo to tafamidis

These findings demonstrate the efficacy of tafamidis in patients with ATTR-CM irrespective of LVEF



Tafamidis en France

INDICATION NEUROLOGIQUE

Tafamidis meglumine 20mg

INDICATION CARDIOLOGIQUE

“Accès Précoce” : “RTU”

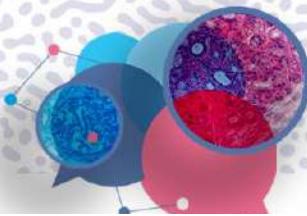
2018 Nov

AMM

2021 Juin

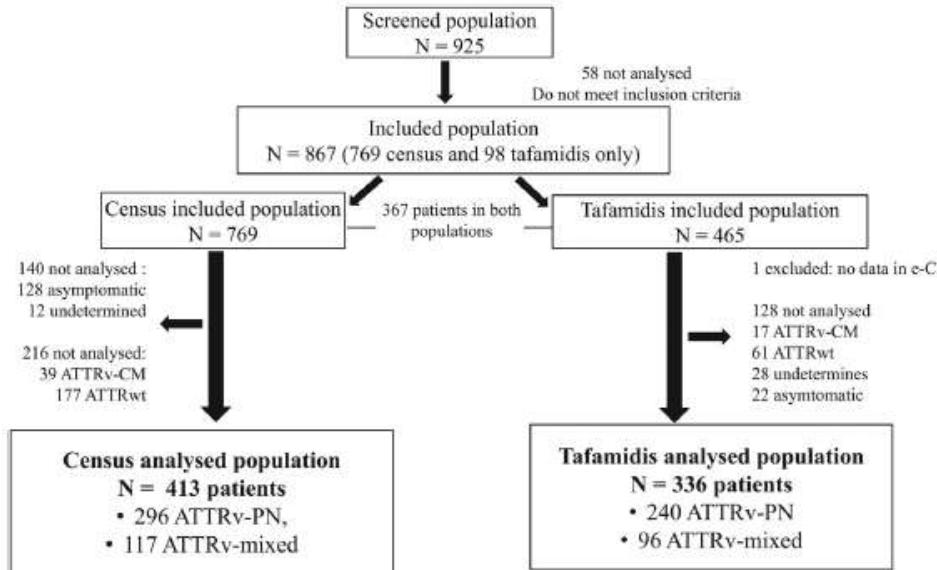
Tafamidis meglumine 20mg
Tafamidis meglumine 80mg

Tafamidis Free Acid 61mg

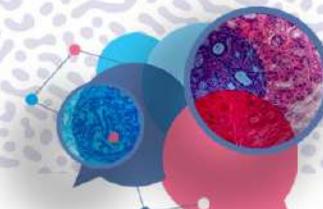


Transthyretin amyloid polyneuropathy in France: A cross-sectional study with 413 patients and real-world tafamidis meglumine use (2009–2019)

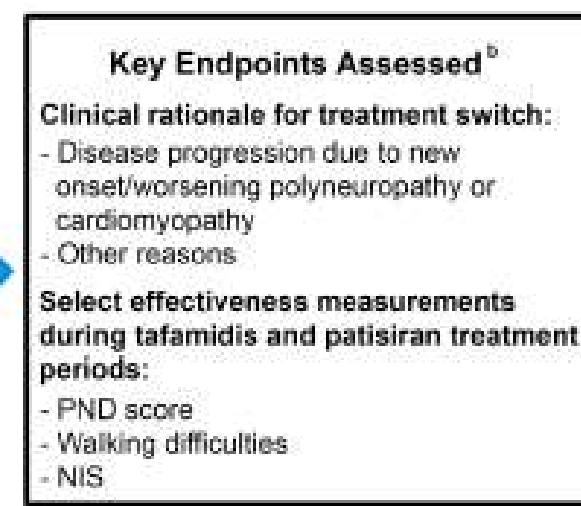
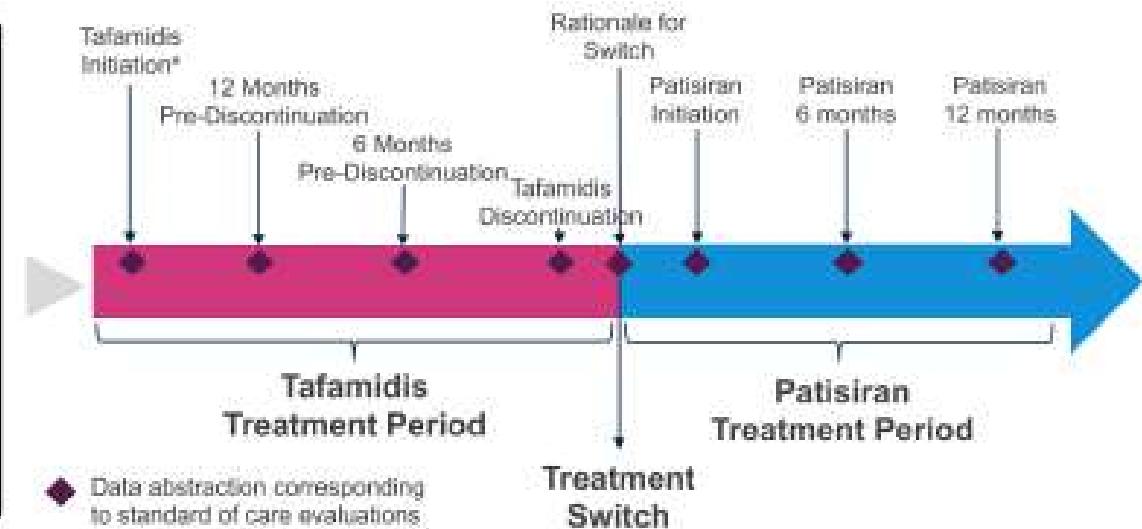
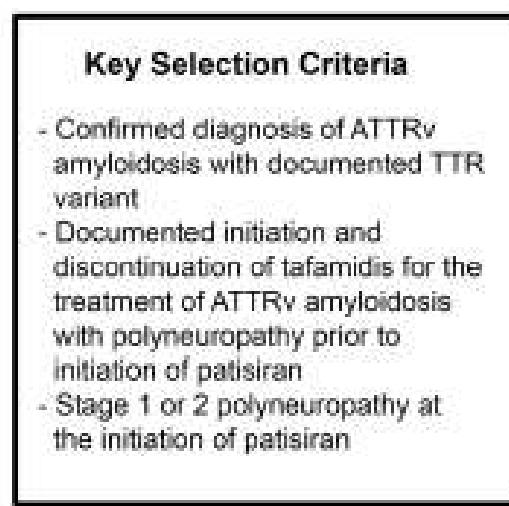
ATTRv- Neuro
Tafamidis 20mg

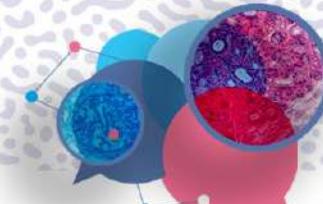


- Male (68.0%) with a mean age of 57.2+/-17.2 years
- First symptom(s)-diagnosis was 3.4+/-4.3 years
- First symptoms:
 - Sensory complaints (85.9%)
 - Dysautonomia (38.5%)
 - Motor deficits (26.4%)
 - Carpal tunnel syndrome (31.5%)
 - Shortness of breath (13.3%)
 - Unexplained weight loss (16.0%)
- Tafamidis meglumine was initiated in 156/214 (72.9%)
- Median treatment duration was 6.00 years
- Tafamidis was well tolerated, with 20 adverse events likely related to study drug among the 336 patients



Effectiveness of patisiran after switching from tafamidis for the treatment of hereditary transthyretin-mediated amyloidosis with polyneuropathy

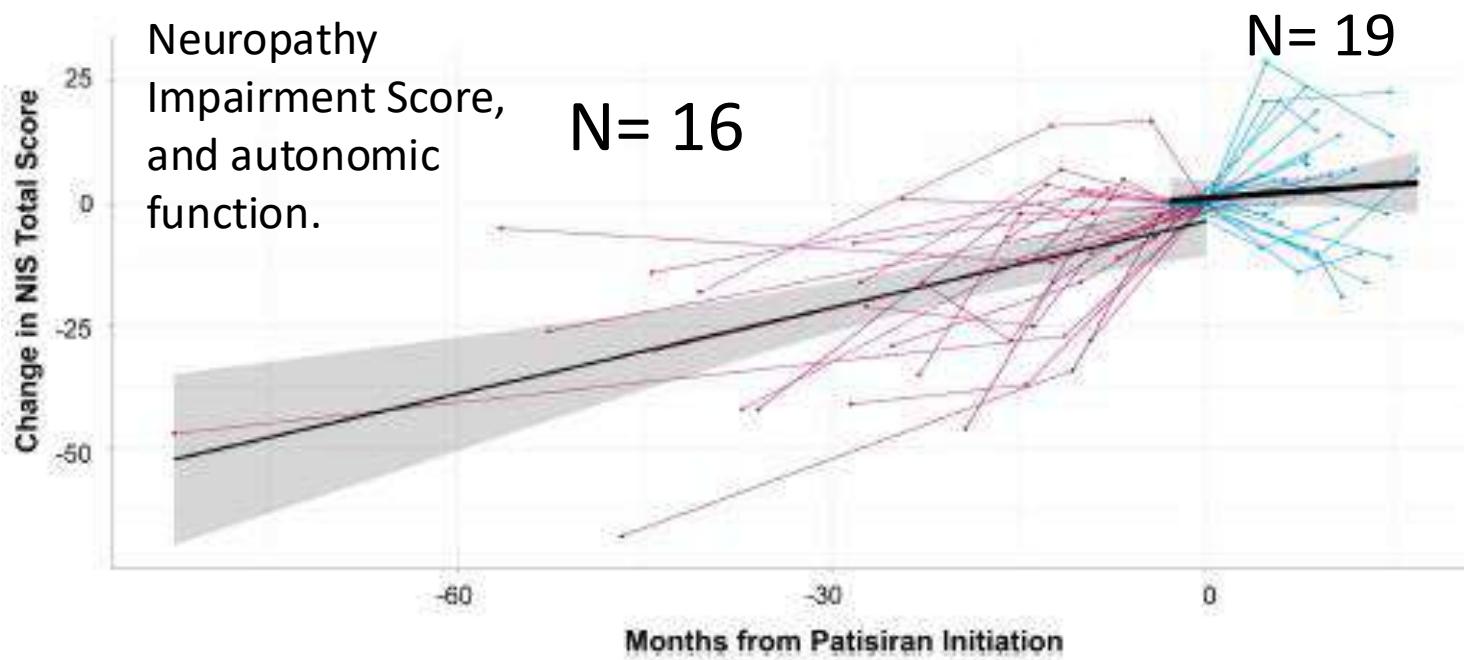




Effectiveness of patisiran after switching from tafamidis for the treatment of hereditary transthyretin-mediated amyloidosis with polyneuropathy

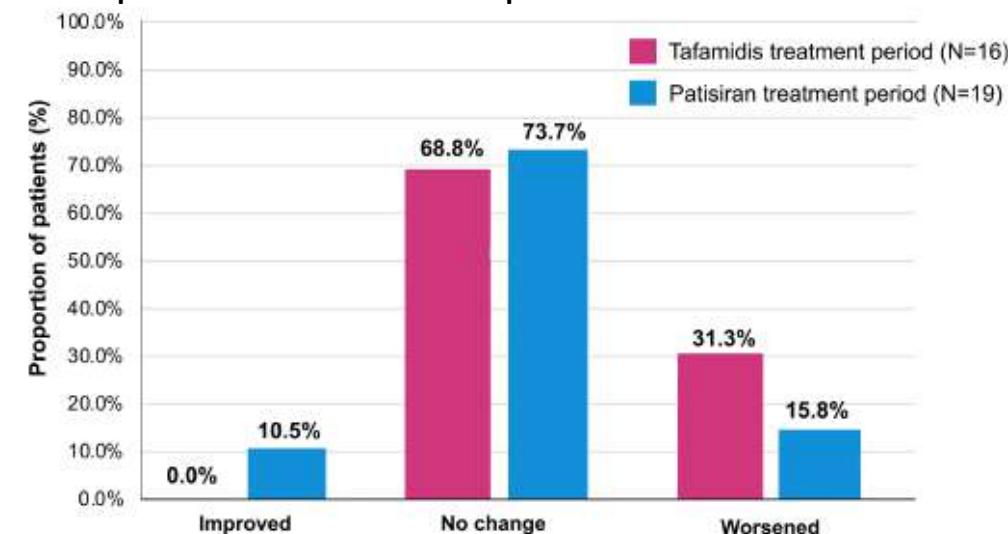
Neuropathy

Impairment Score,
and autonomic
function.



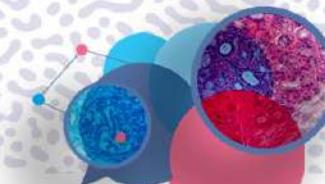
mNIS

Change in PND score during the tafamidis and patisiran treatment periods.

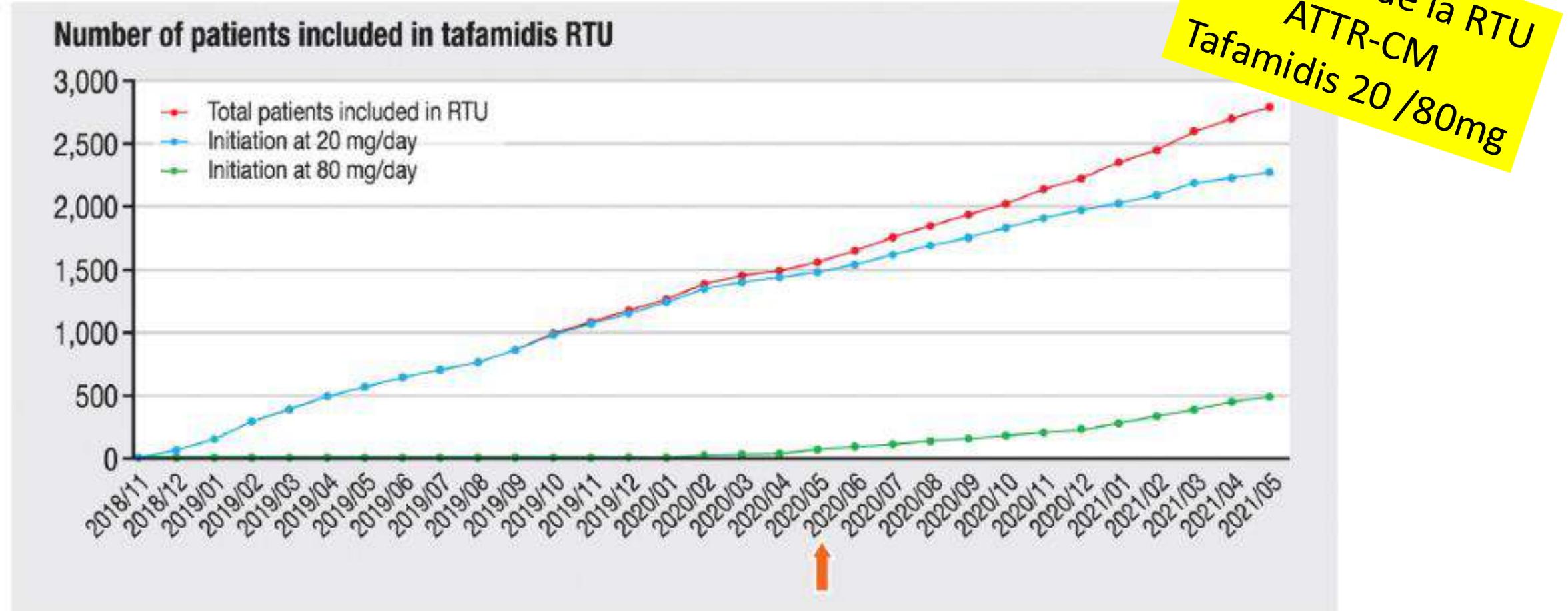


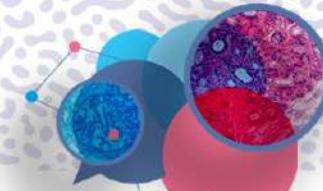
PND

- Trouble sensoriel, Marche OK
- Marche altérée sans canne
- Marche altérée avec une canne
- Marche altérée avec 2 cannes ou béquilles



Clinical outcomes for 2788 patients with transthyretin amyloidosis: Tafamidis meglumine early access program in France[☆]



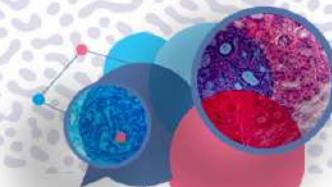


Clinical outcomes for 2788 patients with transthyretin amyloidosis: Tafamidis meglumine early access program in France[☆]

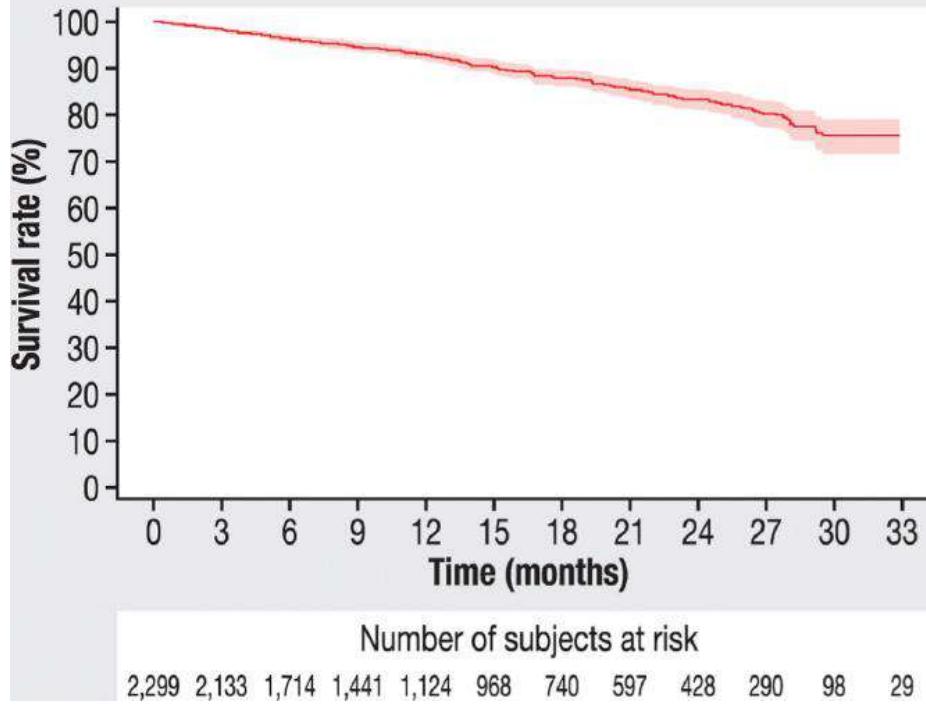
Données de la fiche d'initiation de la RTU

Données de la RTU
ATTR-CM
Tafamidis 20/80mg

	Total (n=2788)	ATTRwt (n=995)	ATTRv (n=213)	Ongoing/missing (n=918)	Not done (n=662)
Age at tafamidis initiation (years)					
Mean ± SD	80.4 ± 7.2	80.0 ± 6.7	73.7 ± 8.3	81.0 ± 6.7	82.1 ± 6.9
Median (IQR)	82.0 (76.0–85.0)	81.0 (76.0–85.0)	74.0 (70.0–80.0)	82.0 (77.0–86.0)	83.0 (79.0–87.0)
Age group at tafamidis initiation					
< 50 years	6 (0.2)	0 (0.0)	4 (1.9)	0 (0.0)	2 (0.3)
50–59 years	16 (0.6)	3 (0.3)	7 (3.3)	3 (0.3)	3 (0.5)
60–69 years	185 (6.6)	68 (6.8)	41 (19.2)	48 (5.2)	28 (4.2)
70–79 years	891 (32.0)	357 (35.9)	105 (49.3)	289 (31.5)	140 (21.2)
80–84 years	831 (29.8)	290 (29.1)	50 (23.5)	272 (29.7)	219 (33.1)
85–89 years	669 (24.0)	226 (22.7)	3 (1.4)	234 (25.5)	206 (31.2)
≥ 90 years	188 (6.7)	51 (5.1)	3 (1.4)	71 (7.7)	63 (9.5)
Missing	2	0	0	1	1
Sex					
Male	2276 (81.6)	843 (84.7)	152 (71.4)	744 (81.0)	537 (81.1)
Female	512 (18.4)	152 (15.3)	61 (28.6)	174 (19.0)	125 (18.9)



Clinical outcomes for 2788 patients with transthyretin amyloidosis: Tafamidis meglumine early access program in France*

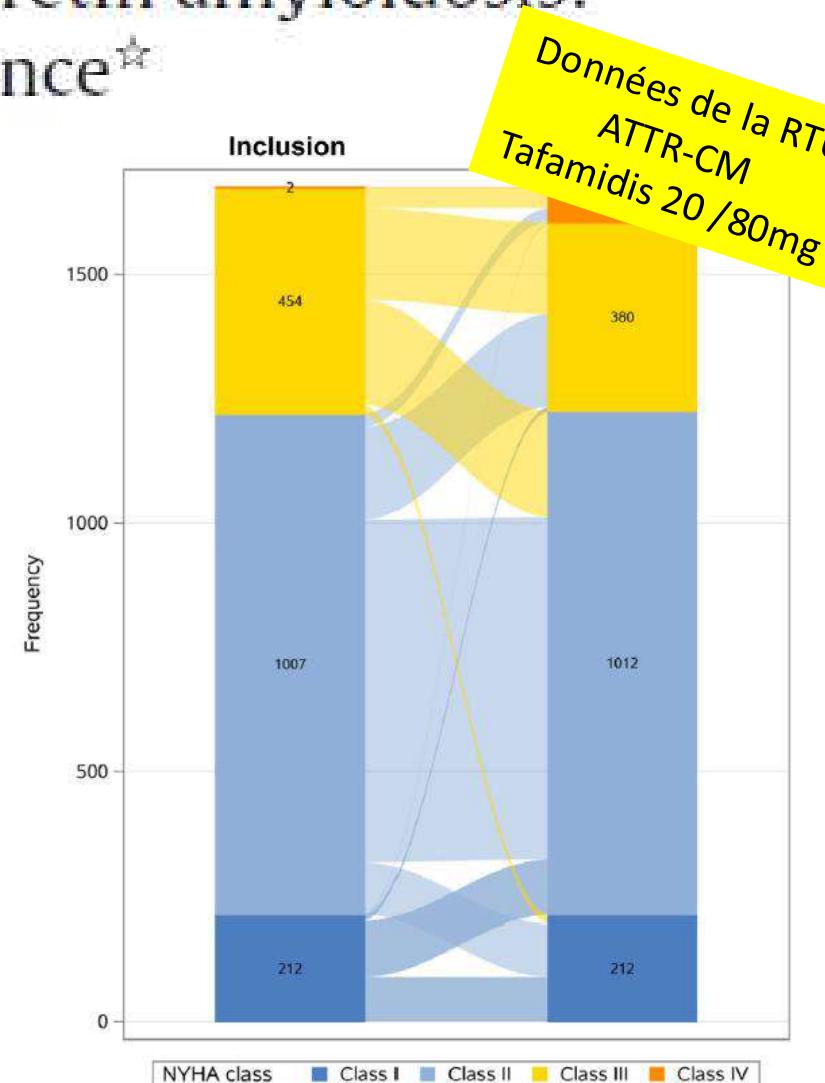


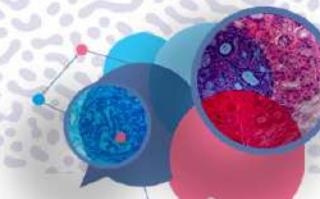
2788 ATTR-CM patients taking tafamidis 20mg or 80 mg in the French early access program.

Real-world patient pathway, disease severity, and progression data.

NYHA class improved or remained stable for 1299 (77.6%), and 376 (22.4%) worsened between inclusion and last follow-up.

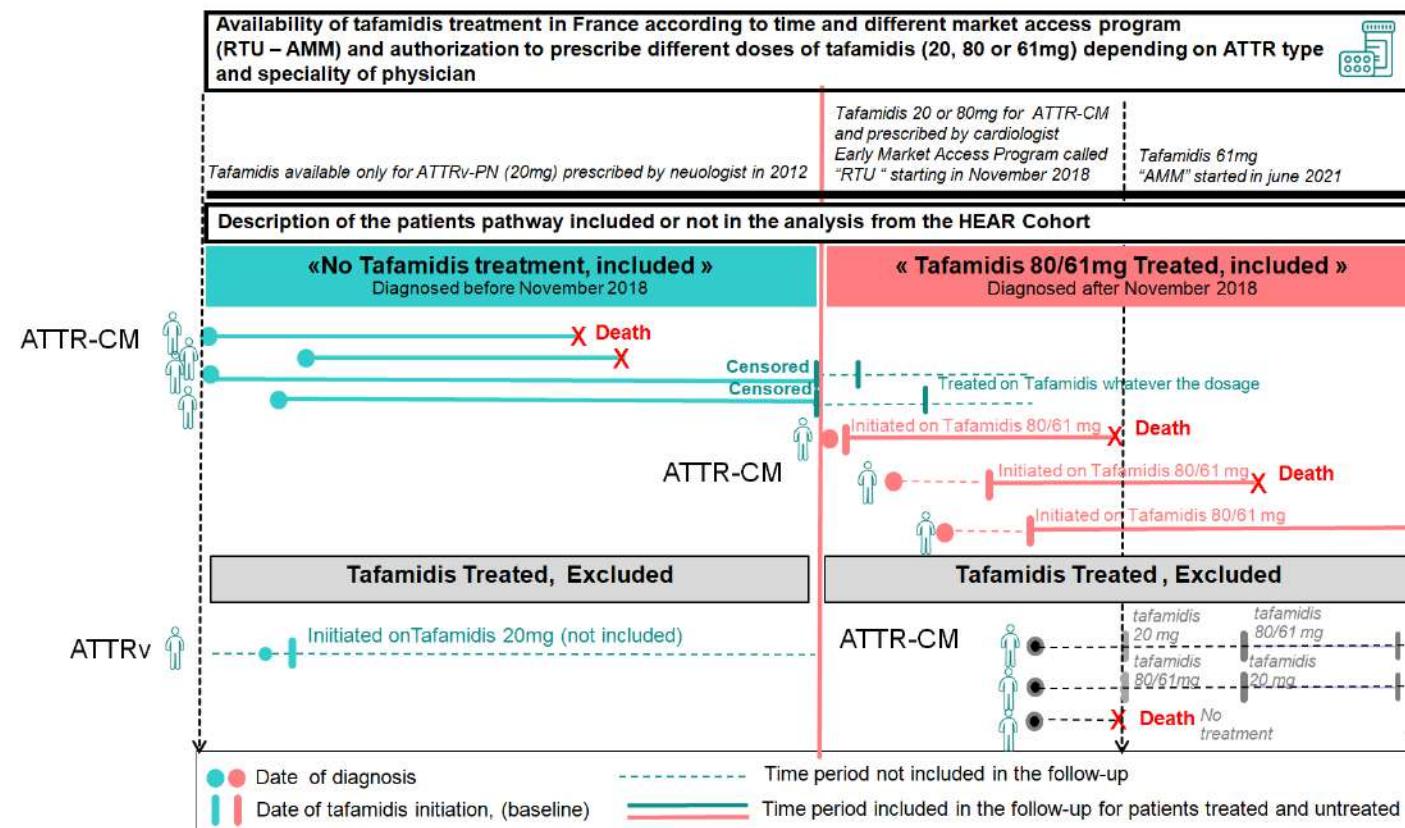
In this population with a median age of 82 years old, 88% of patients were still alive at 18 months.

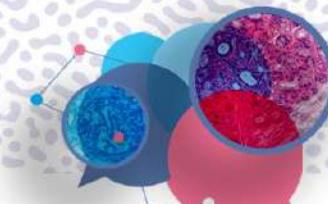




Impact of Tafamidis on survival of elderly patients in real-world setting - Healthcare European Amyloidosis Registry

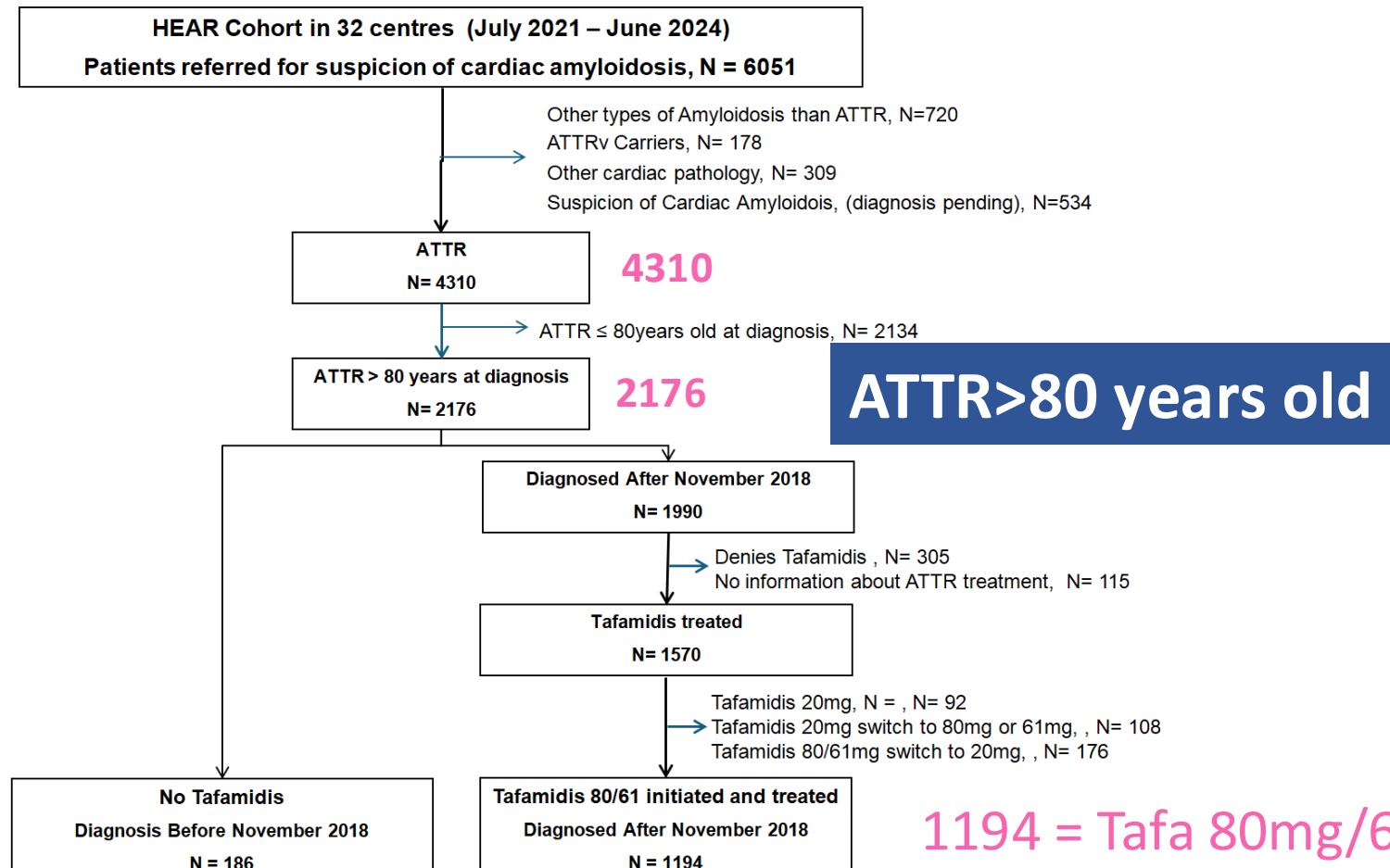
Figure 1 : Description of the availability of tafamidis treatment in France according to time and different market access program (RTU – AMM) and authorization to prescribe different doses of tafamidis (20, 80 or 61mg) depending on ATTR type and speciality of physician and description of patients' pathways included or not in the study





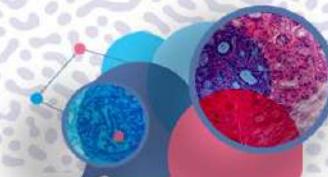
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Figure 2 : Flow chart



HEART's

186 = No Tafa

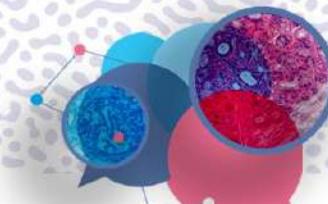


Impact of Tafamidis on survival of elderly patients in real-world setting

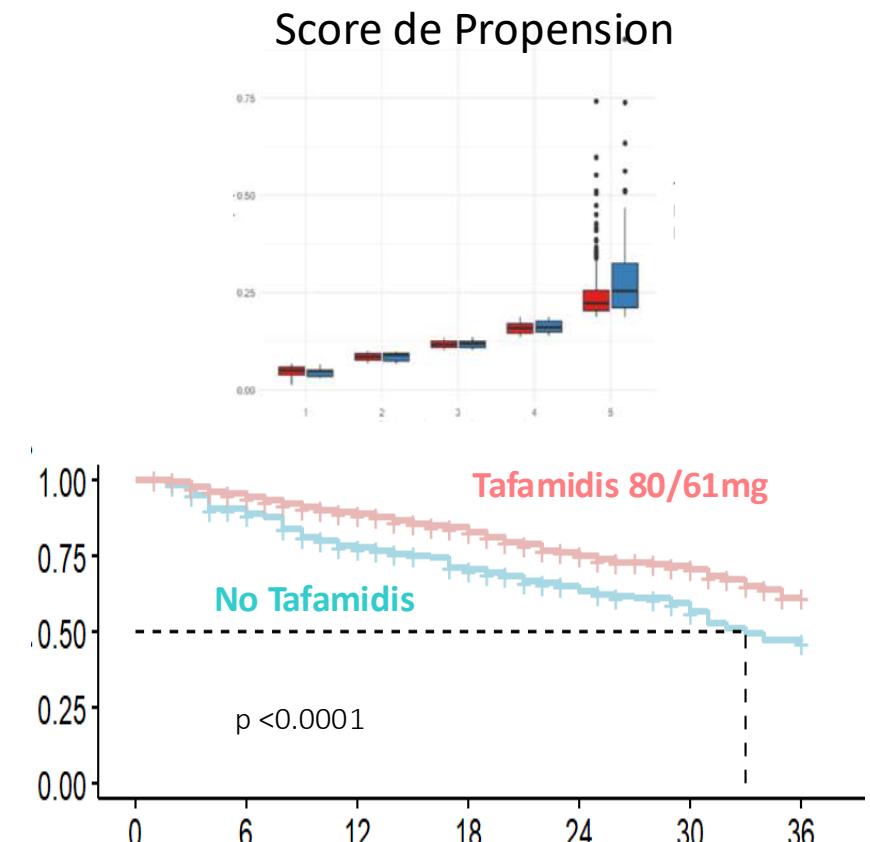
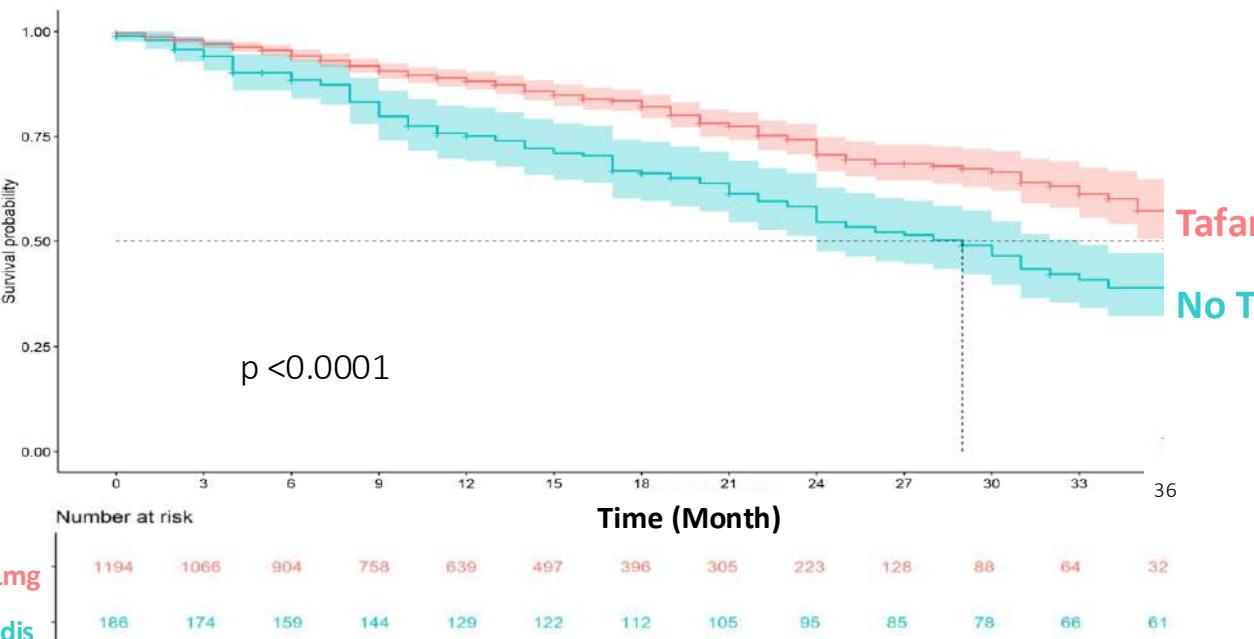
Healthcare European Amyloidosis Registry

Table 1. Baseline characteristics of the study population according to treatment status

Variables	Overall 1380	No Tafamidis 186 (13)	Tafamidis 80/61mg 1194 (87)	P value	
Demographic data					
Age, years	85 [83 - 88]	83 [82 - 85]	86 [84 - 88]	<0.001	
Time to diagnosis from 1st CV symptom, months	13.0 [3.0 - 64.0]	14.5 [4.0 - 65.0]	13.0 [3.0 - 52.0]	0.362	
Men, n(%)	1075 (77.9)	140 (75.2)	934 (78.2)	0.384	
BMI, kg/m2	24.8 [22.8 - 27.1]	24.6 [23.1 - 27.1]	24.8 [22.8 - 27.1]	0.611	
Diagnosis					
ATTRwt, n(%)	957 (69.4)	114 (61.1)	841 (70.4)	0.017	
ATTRv, n(%)	75 (5.5)	32 (17.2)	47 (3.9)	<0.001	
ATTR not genotyped, n(%)	180 (13.0)	39 (21.0)	143 (12.0)	0.001	
ATTR undergoing genetic testing, n(%)	166 (12.1)	1 (0.7)	163 (13.7)	<0.001	
HR, bpm	75.0 [66.0 - 86.0]	75.0 [65.5 - 87.0]	77.0 [69.0 - 85.0]	0.200	
SBP, mmHg	134.0 [121.0 - 146.0]	128.0 [117.0 - 143.0]	134.0 [121.5 - 146.0]	<0.001	
DBP, mmHg	73.0 [66.0 - 81.0]	74.0 [66.5 - 80.5]	73.0 [66.0 - 81.0]	0.008	
Biomarkers					
NT-proBNP, ng/L	2492.5 [1264.0 - 4741.5]	4854.0 [2049.5 - 8903.0]	2330.0 [1202.5 - 4483.0]	<0.001	
hs-TnT, ng/L	56.0 [41.8 - 80.0]	74.0 [55.0 - 108.0]	55.0 [40.5 - 77.0]	<0.001	
HEAR Registry, databases e JUNE 2021-JUNE 2024	Creatinin, µmol/L	106.0 [87.8 - 131.3]	117.0 [89.0 - 140.0]	106.0 [86.5 - 130.0]	0.130
	eGFR, ml/min/1,73m2	44.2 [34.2 - 54.2]	41.7 [35.85 - 49.2]	45.1 [34.1 - 54.5]	0.042
	PAL, UI/L	91.0 [69.0 - 115.0]	107.0 [80.5 - 133.5]	88.0 [68.5 - 114.0]	<0.001
	Hemoglobin, g/dl	13.1 [12.2 - 14.2]	13.0 [11.8 - 14.0]	13.2 [12.3 - 14.2]	0.049
Echocardiographic features					
IVS, mm	16.2 [14.3 - 18.7]	18.0 [15.0 - 20.0]	16.0 [14.1 - 18.0]	<0.001	
LVEDD, mm	43.5 [39.0 - 48.0]	44.0 [40.0 - 49.0]	43.0 [39.0 - 48.0]	0.469	
LVEF, %	54.4 [46.4 - 61.0]	48.0 [39.0 - 56.0]	55.0 [48.0 - 62.0]	<0.001	
GLS, %	11.7 [9.0 - 14.0]	9.7 [7.6 - 11.7]	12.0 [9.4 - 14.4]	<0.001	
PAPs, mmHg	29.7 [21.2 - 36.0]	32.1 [27.0 - 37.9]	29.2 [21.2 - 36.0]	0.047	



Impact of Tafamidis on survival of elderly patients in real-world setting Healthcare European Amyloidosis Registry



Merci aux collaborateurs du RÉSEAU AMYLOSE !

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