Drug	Mechanis m	Study	Intervention	Inclusion criteria	Outcome	Side effects
Diflunisal	TTR tetramer stabiliser (NSAID)	NCT0029467 1 Phase 3 Double-blinded Placebo- controlled RCT N=130 1:1 allocation	250mg bd PO for 24 months (with PPI)	- 18-75y.o. - ATTRV-PN - Biopsy proven amyloidosis - Signs of PN or AN - ECOG <3 - NYHA<4	1°: 29.7% diflunisal vs. 9.4% placebo showed reduced rate of neurologic progression (NIS+7) and improved QOL (SF-36) over 2 years	Upper GIT ulceration and GORD Renal impairment Platelet aggregation inhibition and bleeding Hypertension Fluid retention Monitor FBC and EUC 3/12 PPI cover
Tafamidis (Vyndagel; Vyndamax)	TTR tetramer stabiliser	Fx-005 Phase 2/3 Double-blinded Placebo-controlled RCT NCT0040917 5 N= 128 OLE- 30 months NCT0079149 2 N= 86	20mg PO daily for 18 months	- 18-75y.o ATTRV30M - PN - Biopsy confirmed - KPS >50% (Findings subsequently confirmed in non-V30M mutations)	Fx-005 No difference in NIS-LL or NF-Qol-DN responder on IIT EE cohort:60% NIS-LL responders vs 38% placebo; improved NF-Qol_DN OLE Stabilisation of NIS-LL and NF-Qol_DN Rate of change of NIS-LL reduced in patients switching from placebo Tafamidis 30/12 56% greater preservation of NIS-LL than late initiation	No difference in AE between Tafamidis and placebo No monitoring required
		ATTR-ACT NCT0199488 9 Phase 3, Double- blinded, Placebo- controlled RCT N=441 2:1:2 allocation (80mg: 20mg: placebo)	Tafamidis meglumine/ Vyndagel: 80mg daily or 20mg daily PO for 30 months Note: Tafamidis (free acid form)/ Vyndamax 61mg PO daily	- 18-90 y.o ATTR-CM (v and wt) - HF symptoms or prior hospitalisation - IVSd >12mm - Biopsy or scintigraphy proven ATTR amyloidosis	1°: Tafamidis showed lower all-cause mortality vs placebo 29.5% vs 42.9% 2°: Cardiovascular-related hospitalisations were reduced RR of 0.68 (0.48 per year vs. 0.70 per year). Except in NYHA class III where hospitalisations > placebo Reduced 6-MWT and KCCQ in Tafamidis vs controls NNT -4	
Acoramadis (AG10/ ALXN2060)	TTR tetramer stabiliser	ATTRibute- CM NCT0386093 5 Phase 3 Double-	800mg PO bd for 30 months	- 18-90 y.o ATTR-CM (v and wt) - HF symptoms or prior hospitalisation - Stable NYHA I-III	Estimated completion May 2023 1°: 6MWT at M12, Composite all-cause	No known SE or interactions

		blinded		- >150m 6MWT	montolite: J	I
]	Placebo		- IVSd >12mm	mortality, and CV	
		controlled		- Biopsy or	hospitalisations	
		RCT		scintigraphy	at 30mo	
		N = 632			2°: KCCQ M12	
		2:1 allocation			and M30,	
					6MWT M30,	
					All-cause and	
					CV mortality	
					and CV hospitalisation.	
					Phase 2- N 49:	
					near-complete	
					stabilisation of	
					TTR (>90% at	
					D28)	
					Prelim results	
					M12: no difference in	
					6MWT	
		ATTRibute-	800mg PO bd	- 18-90 y.o.	Not yet	
		PN	for 18 months	- ATTRv-PN	Recruiting	
		NCT0488273		- PND <iiib< td=""><td>1°: Change from</td><td></td></iiib<>	1°: Change from	
		<u>5</u>		- NIS 5-130	baseline	
		Phase 3		- NCS sum score >2	mNIS+7; safety	
		Open-label		- KPS>60%	2°: Change in	
		Single-arm N=100			NFQoL-DN, mBMI.	
		11-100			COMPASS-31at	
					M18	
Green Tea	TTR	Case cohort	600mg PO	- ATTRwt	1°: 12 out of 14	Liver function
Extract (EGCG)	resorption	N=25	daily for up to 12 months	- Endomyocardial	showed a decrease of	derangement (rare liver failure).
(EGCG)			12 monus	biopsy positive Gene testing	5.9% in left	Insomnia
				negative	ventricular	Ingommu
					myocardial	
					mass on cMR	
Doxycycline	TTR	Phase 2,	Doxycycline	- >18 y.o	Stable	Doxycycline:
Doxycycline and TUDCA	synthesis	Single-centre,	100mg PO bd	- ATTRwt and	Stable neuropathy in	Photosensitive skin
			100mg PO bd and TUDCA	- ATTRwt and ATTRv	Stable	Photosensitive skin reactions
	synthesis inhibitor	Single-centre, Open-label,	100mg PO bd	- ATTRwt and	Stable neuropathy in 46% (n=13	Photosensitive skin
	synthesis inhibitor and TTR	Single-centre, Open-label, non- randomised NCT0117185	100mg PO bd and TUDCA 250mg PO tds	- ATTRwt and ATTRv - Biopsy proven	Stable neuropathy in 46% (n=13 evaluable patients) Stable	Photosensitive skin reactions GIT side effects. TUDCA: no significant
	synthesis inhibitor and TTR	Single-centre, Open-label, non- randomised NCT0117185 9 and	100mg PO bd and TUDCA 250mg PO tds	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in	Photosensitive skin reactions GIT side effects.
	synthesis inhibitor and TTR	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536	100mg PO bd and TUDCA 250mg PO tds	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24	Photosensitive skin reactions GIT side effects. TUDCA: no significant
	synthesis inhibitor and TTR	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0	100mg PO bd and TUDCA 250mg PO tds	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable	Photosensitive skin reactions GIT side effects. TUDCA: no significant
and TUDCA	synthesis inhibitor and TTR	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40	100mg PO bd and TUDCA 250mg PO tds for 12 months	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients).	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE
	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0	100mg PO bd and TUDCA 250mg PO tds	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable	Photosensitive skin reactions GIT side effects. TUDCA: no significant
Inotersen (Tegsedi, IONIS-TTR	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR	100mg PO bd and TUDCA 250mg PO tds for 12 months	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o.	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3%
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o. - ATTRv-PN - biopsy confirmed ATTR	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe
Inotersen (Tegsedi, IONIS-TTR	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double-	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37%	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded,	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm ³⁾ 3%
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo-	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo.	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded,	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm ³⁾ 3%
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double-blinded, Placebo- controlled RCT N=172	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation	300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD)	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27%	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD)	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation	300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD)	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27%	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double-blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD)	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopaenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC,
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double-blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC,
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain compared with	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain compared with baseline at M12, M18, M24, cMR	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly
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Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain compared with baseline at M12, M18, M24, cMR extracellular volume at M6,	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly
Inotersen (Tegsedi, IONIS-TTR Rx, ISIS	synthesis inhibitor and TTR resorption	Single-centre, Open-label, non- randomised NCT0117185 9 and NCT0185536 0 N=40 NEURO-TTR NCT0173739 8 Phase 2/3 Double- blinded, Placebo- controlled RCT N=172 2:1 allocation NCT0370282 9 Phase 2 Open-label	100mg PO bd and TUDCA 250mg PO tds for 12 months 300mg SC x 3 in W1, followed by 300mg SC weekly for 16 months (+3000IU Vitamin A OD) 300mg SC weekly for 24 months (+3000IU Vitamin A	- ATTRwt and ATTRv - Biopsy proven ATTR - Symptomatic organ involvement - ECOG<3 - NYHA<3 - SBP>100mmHg - 18-82 y.o ATTRv-PN - biopsy confirmed ATTR - NIS 10-130 - PND <3 - KPS >50 - NYHA<3	Stable neuropathy in 46% (n=13 evaluable patients) Stable NTproBNP in 75% (n=24 evaluable patients). 1°: Improvement or non- progression in polyneuropathy (mNIS+7) 37% Inotersen vs 19% placebo. Improvement or non-progression in NF-QoL-DN 50% vs 27% Estimated completion March 2022 1°: LV strain compared with baseline at M6 2°: LV strain compared with baseline at M12, M18, M24, cMR extracellular	Photosensitive skin reactions GIT side effects. TUDCA: no significant AE SAE: - Glomerulonephritis 3% - Severe thrombocytopenia (<25,000mm³) 3% including 1 death due to ICH due to grade 4 thrombocytopaenia Mild-Mod AE - Thrombocytopenia (<140,000mm³) in 54% vs 13% placebo - Infusion/injection reactions Vitamin A Deficiency Monitor: EUC, FBC, Urine analysis 2 weekly

(AKCEA- TTR-LRx, IONIS-TTR- LRx, ION-682884)	conjugated to GaINAc	TTRansform NCT0413618 4 Phase 3 Open-label Crossover study RCT N=168	every 4 weeks for 65 weeks (vs Inotersen SC weekly) (+3000IU Vitamin A OD)	- ATTRv-PN - Coutinho 1-2 - NIS 10-130	completion Jan 2024 1°: Change in mNIS+7 and NF-QoL-DN at W66, change in TTR serum concentrations 2°: Change in mNIS+7, NF- QOL-DN at W35, SF-36, PND and mBMI at W65.	Supplement Vitamin A
		Cardio- TTRansform NCT0413617 1 Phase 3 Double- Blinded Placebo- controlled RCT Ongoing enrolment estimated N=	45mg SC every 4 weeks (+3000IU Vitamin A OD)	- 18-90 y.o ATTR-CM - Biopsy or Bone scintigraphy confirmed ATTR - NYHA I-III - IVSd >12mm	Estimated completion June 2024 1°: Composite of CV mortality and recurrent CV clinical events at M30 2°: Change in baseline 6MWT, KCCQ, CV mortality, CV events, All-cause mortality at M30	
Patisiran (Onpattro, ALN-TTR02)	siRNA	APOLLO NCT0196034 8 Phase 3, Double- blinded, Placebo- controlled, RCT N=225 2:1 allocation	0.3mg/kg IVI, 3 weekly (max 30mg) for 18 months (+3000IU Vitamin A OD and infusion premedication s – IV steroid, paracetamol, H1- and H2- receptor blockers)	- 18-85 y.o. - ATTRv-PN - NIS: 5-130 - PND <iiib - NYHA<3</iiib 	1°: Improvement or less progression in polyneuropathy scores (mNIS+7) in 56% vs 4% 2°: Improvements in NFQoL-DN, 10-MWT, NIS, mBMI, R-ODS and COMPASS31 scores.	SAE: similar between Patisiran and placebo Mild-Mod AE: - Peripheral oedema 20% vs 22% - Infusion-related reactions (19% vs 9%) Vitamin A Deficiency Supplement Vitamin A
		APOLLO-B NCT0399738 3 Phase 3, Double- blinded, Placebo- controlled, RCT N=360	0.3mg/kg IVI, 3 weekly for 12 months (+3000IU Vitamin A OD and infusion premedication s – IV steroid, paracetamol, H1- and H2- receptor blockers)	- 18-85 y.o ATTR-CM (v or wt) - HF symptoms or prior hospitalisation - Stable HF (no hospitalisation in 6/52) - Tafamidis naive, or progression on Tafamidis >6/12 - >150m on 6MWT - NTproBNP >300ng/L L and <8500ng/L or if AF >600ng/L and <8500ng/L	Estimated completion June 2025. Outcome measures: 1º: Change in 6MWT from baseline to 12 mo 2º: Change in KCCQ score, All-Cause mortality, CV events	
Vutisiran (ALN- TTRSC02)	siRNA conjugated to GaINAc	HELIOS-A NCT0375937 9 Phase 3, Open-label, RCT N=164 3:1 allocation	25mg SC every 12 weeks (vs Patisiran IV and Placebo cohort from APOLLO) for 18 months (+ 3000 IU Vitamin A daily)	- 18-85 y.o. - ATTRV-PN - NIS 5-130 - PND <iiib - KPS>60%</iiib 	Estimated completion May 2024 1°: Change in mNIS+7 at 9 months 2°: Change in NF QoL-DN, 10-MWT at M9, Change in m+NIS, NF QoL-DN, 10-MWT, mBMI,	Mild-Mod AE - Injection site reactions Vitamin A Deficiency Supplement Vit A

					R-ODS at M18	
		HELIOS-B NCT0415314 9 Phase 3 Double-blinded, Placebo-controlled RCT N= 665	25mg SC every 12 weeks (+ 3000 IU Vitamin A daily)	- 18-85 y.o ATTR-CM (v or wt) - HF symptoms or prior hospitalisation	Interim 9/12 reporting: improved mNIS+7, NF QOL-DN, and stability of 10- MWT, NTproBNP c/w Placebo Estimated completion June 2025 Outcome measures: 1°: Composite outcome of all- cause mortality and recurrent CV hospitalisations at 30-36mo 2°: Change in 6MWT, KCCQ score, LVWT, GLS, mortality, CV events, NTProBNP	
CRISPR-Cas9 gene editing (NTLA-2001)	TTR gene editing	NCT0460105 1 Phase 1 Open-label, single ascending dose followed by single dose expansion Ongoing recruitment N=74	0.1mg/kg and 0.3mg/kg single dose IV	- 18-80 y.o Weight 50-90kg - Lack of access to approved treatments for ATTR ATTRv-PN - No other cause of neuropathy OR ATTR-CM (v or wt) - NYHA I-III - HF symptoms or prior hospitalisation - >150m on 6MWT	Estimated completion Nov 2024 Initial dosing groups n=6: - Durable knock out of TTR after single dose - 0.1mg/kg - 52% and 0.3mg/kg - 87% reduction in TTR concentration at D28	SAE: Nil Mild AE - Infusion reaction - Increased D-dimer
PRX-004 (monoclonal antibody to misfolded TTR)	Amyloid deposit clearance	Phase 1 Open-label Dose- escalation NCT0333658 0 N=21	IV every 28 days	- >18 y.o. - ATTR biopsy, genetics, scintigraphy proven - KPS>60% - NTproBNP >650 and <5000pg/mL or IVSd >12mm	Terminated due to COVID Dose escalation study to determine safety, tolerability, PK and PD.	TBD
NI006 (monoclonal antibody to misfolded TTR)	Amyloid deposit clearance	Phase 1 Double- blinded, Placebo- controlled Dose- escalation RCT NCT0436043 4 N=36	IV every 28 days	- >18 y.o. - ATTR-CM (v or wt) - LVEF>40%, LVWT>14mm, NTproBNP >600pg/ mL, 6MWT>150m - Stability over 30days - KPS>60%	Estimated completion June 2022 Dose escalation study to determine safety, tolerability, PK and PD.	TBD
Anti-SAP monoclonal antibody (Dezamizumab) and CPHPC (Miridesap)	Deposit eliminatio n	Phase 2 Open-Label Non- randomised NCT0304435 3 N=7	CPHPC 20mg/hr IV daily for 3 d then anti-SAP antibody D1 and D3 IV, with 60mg CPHPC SC TDS D1-11	- 18-80 y.o. - ATTR-CM (v or wt) - biopsy, genetics or scintigraphy proven - LGE on cMR - LV Mass on cMR> 200g - Stable NYHA 2-3	Study Terminated due to change in benefit/risk profile 1º: Safety and efficacy, change in LV Mass	In Phase 1 (n=23; NCT01777243) self- limiting rash with higher doses

Table 1: Clinical trials in ATTR amyloidosis.

Abbreviations: 6MWT = 6 minute walk test; 10-MWT = 10m walk test; ADL=activities of daily living, AE = adverse events; AN = Autonomic neuropathy; ASO= antisense oligonucleotide, ATTRv= variant (hereditary) transthyretin amyloidosis, bd = bi-daily; cMR = cardiac MRI; COMPASS-31 = Composite Autonomic Symptom Score; CV = cardiovascular; c/w = compared with; D = Day; ECOG = Eastern Cooperative Oncology Group; EUC = Kidney function test; EE = efficacy-evaluatble population; FBC= Full blood count; GaINAc = N-acetyl galactosamine; GIT = Gastrointestinal; GLS = Global longitudinal strain; GORD= gastro-oesophageal reflux disease; HF= Heart failure; IVI=intravenous infusion; IIT = intention to treat; IVSd = Interventricular septal diameter; KCCQ = Kansas City Cardiomyopathy questionnaire; KPS = Karnofsky Performance scale; LGE = Late gadolinium enhancement; LV = Left ventricular; LVEF = left ventricular ejection fraction; LVWT= Left-ventricular wall thickness; M = Month; mBMI = modified BMI; mNIS+7=modified Neuropathy Impairment Scale+7; N = number of participants; NF-QoL-DN= Norfolk Quality of Life-Diabetic Neuropathy questionnaire; NIS-LL= neuropathy Impairment Score lower limb subscale; NNT = number needed to treat; NSAID = nonsteroidal anti-inflammatory drug; NYHA = New York Heart Association; OLE = Open-label extension; PD = Pharmacodynamics; PK = Pharmacokinetics; PN = Peripheral neuropathy; PND = polyneuropathy disability score; PO = per-oral; PPI = proton-pump inhibitor; QOL = quality of life; RCT= randomized controlled trial; R-ODS = Rasch-built overall disability scale; RR = relative risk; SAE= serious adverse events, SAP = serum amyloid P; SC = subcutaneous, SF-36 = 36-Item Short Form Health Survey; siRNA= small interfering RNA; TBD = To be determined; TDS = Three times daily; W = Week.