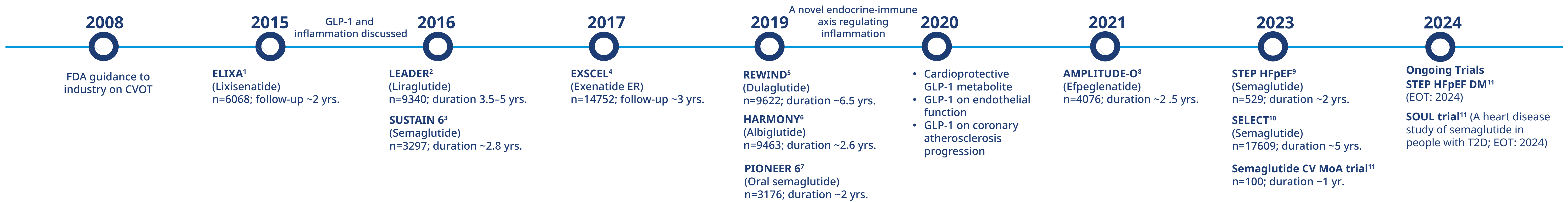


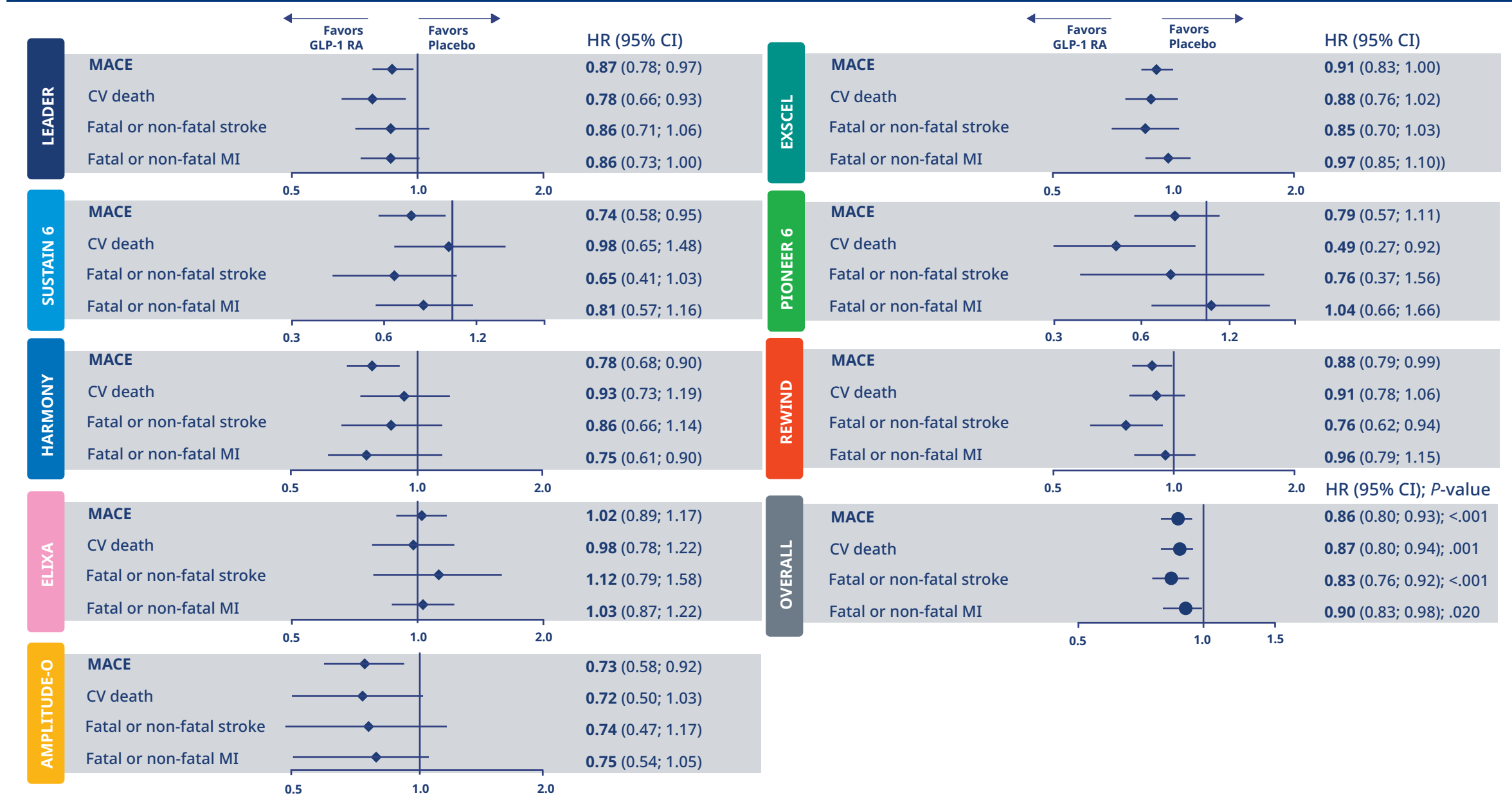
GLP-1 RAs and Cardiovascular Outcomes



ACC Expert Consensus Recommendations on Considerations for Drug Initiation and Monitoring in Patients Starting a GLP-1 RA with CV Benefit¹²

- If HbA_{1c} is well-controlled at baseline or known history of frequent hypoglycemic events, wean or stop sulfonylurea and consider reducing total daily insulin dose by ~20% when starting therapy.
- Instruct patients to more closely monitor glucose at home for the first 4 weeks of therapy. Consider discontinuing any sulfonylurea or glinide. For patients taking insulin, consider modestly reducing total daily insulin dose (by up to 20%).
- Discontinue DPP-4 inhibitor before starting.
- To mitigate nausea, recommend small portion sizes for meals, start at the lowest dose, and up-titrate as tolerated toward the goal doses used in CV outcome trials.
- Advise patients to undergo appropriate, guideline-recommended eye examinations before starting therapy if not done within the last 12 months.
- Discuss potential risk of diabetic retinopathy complications (for dulaglutide or injectable semaglutide).
- Avoid in patients with diabetic gastroparesis or active gallbladder disease.

CV Outcomes of GLP-1 RAs on MACE Endpoints¹³

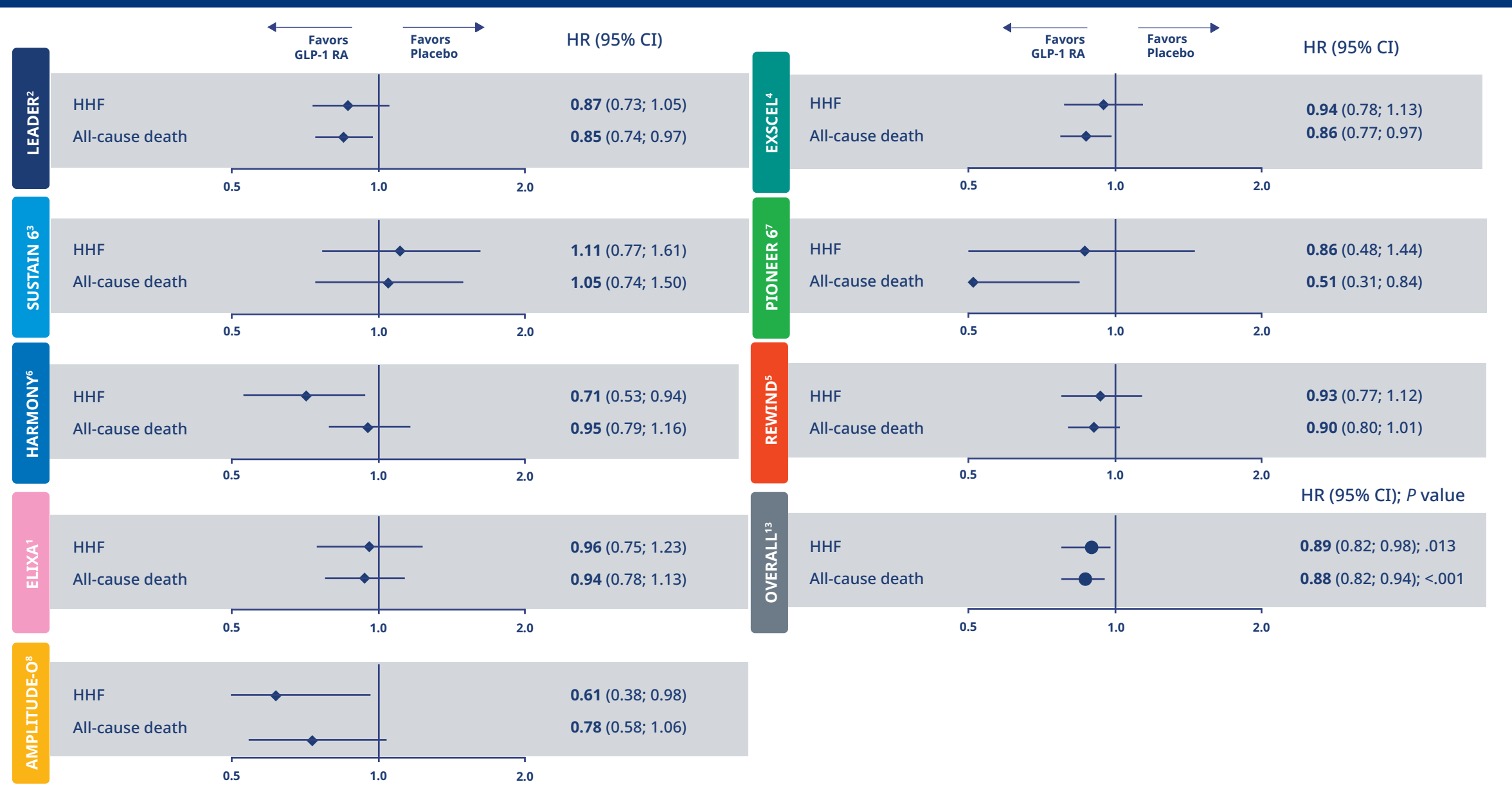


Effect of GLP-1 RAs on CV Risk Factors in CVOTs

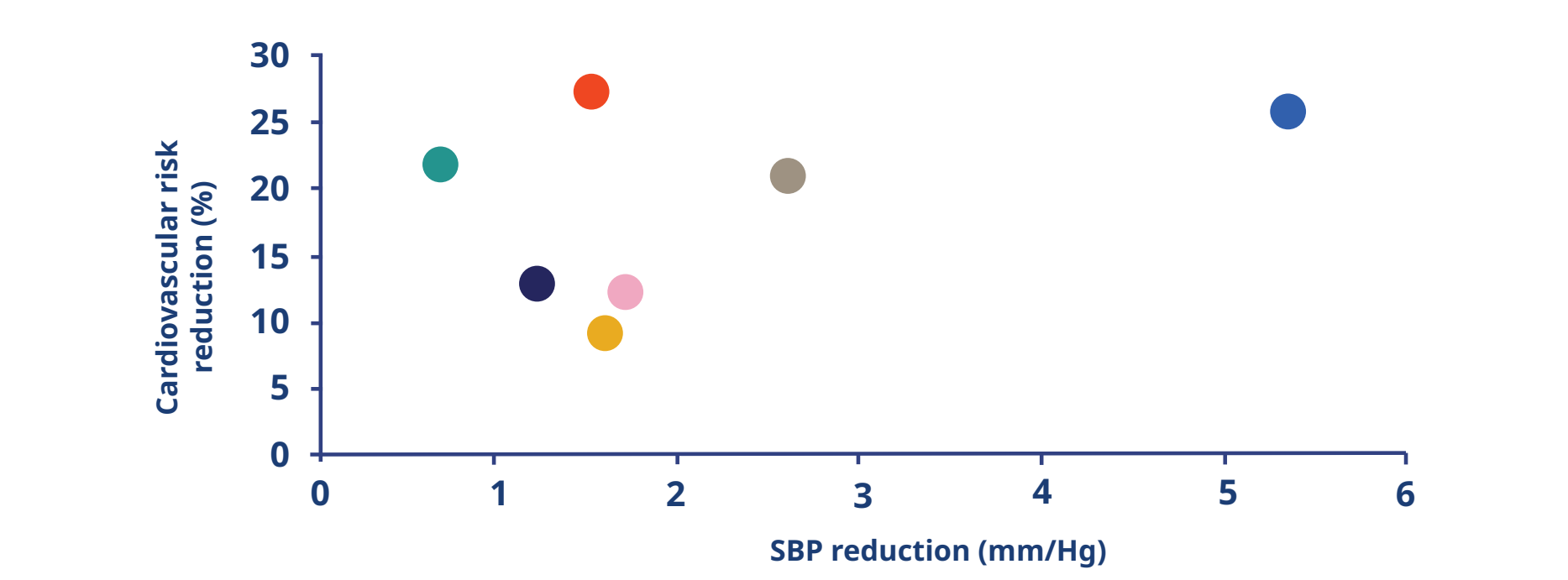
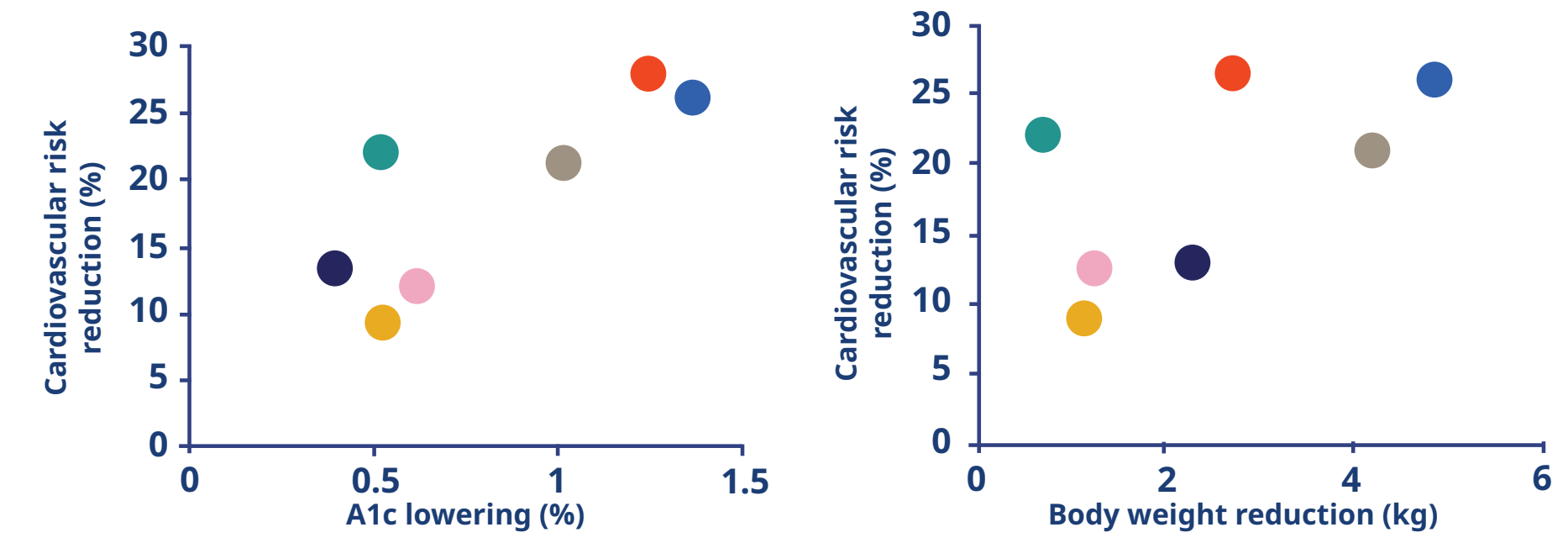
Characteristic	LEADER ²	REWIND ⁵	SUSTAIN 6 ³	PIONEER 6 ⁷	HARMONY ⁶	ELIXA ¹	EXSCEL ⁴	AMPLITUDE-O ⁸
Dose	1.8 mg/day	1.5 mg/week	0.5 mg/week, 1.0 mg/week	14 mg/day	30 or 50 mg/week	20 µg/day	2 mg/week	4 or 6 mg/week
Median follow-up (years)	3.8	5.4	2.1, 2.1	1.3	1.6	2.1	3.2	1.8
A1c (%)	-0.40	-0.61	-1.1, -1.4	-1.0	-0.52	-0.27*	-0.53*	-1.24
Weight (kg)	-2.3	-1.46	-3.6, -4.9	-4.2	-0.83	-0.7*	-1.27*	-2.6
SBP (mmHg)	-1.2	-1.70	-3.4, -5.4	-2.6	-0.67	-0.8	-1.57	-1.5
HR (bpm)	3.0	1.9	2.1, 2.4	3.9	1.3	0.4	2.51	3.9
LDL (mg/dL)	0.98 (ETR)	0.9 (ETR)	0.96 (ETR), 0.99 (ETR)	0.96 (ETR)	-	-	-1.5 (ETD)	-2.7 (ETD)

*Placebo subtracted difference at EOT
ETD: estimated treatment difference; ETR: estimated treatment ratio; EOT: end of treatment

Key Outcomes of GLP-1 RAs on HF and all-cause Mortality



● LEADER ● SUSTAIN 6 ● HARMONY Outcomes ● REWIND ● EXSCEL ● PIONEER 6 ● AMPLITUDE-O



References: (1) Pfeffer MA et al. *N Engl J Med* 2015;373(23):2247-2257; (2) Marso SP et al. *N Engl J Med* 2016;375:311-322; (3) Marso SP et al. *N Engl J Med* 2016;375:1834-1844; (4) Holman RR et al. *N Engl J Med* 2017;377:1228-39; (5) Gerstein HC et al. *Lancet* 2019; 394:121-30; (6) Hernandez AF et al. *Lancet* 2018;392:1519-1529; (7) Husain M et al. *N Engl J Med* 2019;381:841-51; (8) Gerstein HC et al. *N Engl J Med* 2021;385:896-907; (9) Kosiborod MN et al. *JACC Heart Fail* 2023;11(8 Pt 1):1000-1010; (10) Data on file. Novo Nordisk Inc; Plainsboro, NJ. www.clinicaltrials.gov.; (11) www.clinicaltrials.gov.; (12) Das SR et al. *J Am Coll Cardiol*. 2020;76(9):1117-1145; (13) Yoshiji S et al. *Diabetes Obes Metab* 2022;24:1029-1037.