

LEADER

GLP-1 RAs: CARDIOVASCULAR OUTCOME TRIALS

REWIND

	2016	2019	2019	2016
DRUG	Liraglutide 1.8 mg SUBQ daily	Semaglutide 14 mg PO daily	Dulaglutide 1.5 mg SUBQ weekly	Semaglutide 1 mg SUBQ weekly
# RANDOMIZED	9340 (active, n=4668; placebo, n=4672)	3183 (active, n=1591; placebo, n=1592)	9901 (active, n=4949; placebo, n=4952)	3297 (active, n=1648; placebo, n=1649)
INCLUSION CRITERIA	 Type 2 diabetes; HgA1c ≥7% Established ASCVD or CKD, or ≥1 cardiovascular risk factors 	Type 2 diabetes Established ASCVD or CKD, or multiple cardiovascular risk factors	Type 2 diabetes; HgA1c ≤9.5% Established ASCVD or CKD, or multiple cardiovascular risk factors	 Type 2 diabetes; HgA1c ≥7% Established ASCVD or CKD, or ≥1 cardiovascular risk factors
BASELINE CHARACTERISTICS	 Age ~64 years; male ~64% HgA1c ~8.7% Established ASCVD ~81% 	 Age ~66 years; male ~69% HgA1c ~8.2% Established ASCVD/CKD ~85% 	 Age ~66 years; male ~53% HgA1c ~7.3% Established ASCVD ~31% 	 Age ~65 years; male ~61% HgA1c ~8.7% Established ASCVD ~59%
DURATION	Median follow-up period 3.8 years	Median follow-up period 15.9 months	Median follow-up period 5.4 years	Mean follow-up period of 2.1 years
PRIMARY OUTCOME	Composite of cardiovascular death, non-fatal MI and non-fatal stroke	Composite of cardiovascular death, non-fatal MI and non-fatal stroke	Composite of cardiovascular death, myocardial infarction and stroke	Composite of cardiovascular death, non-fatal MI and non-fatal stroke
RESULTS	Primary Composite Outcome: 608 (13.0%) vs 694 (14.9%) HR 0.87 (95% CI 0.78-0.97) p=0.01; ARR 1.83%; NNT ~55	Primary Composite Outcome: NSD 61 (3.83%) vs 76 (4.77%) HR 0.79 (95% CI 0.57-1.11); p=0.17	Primary Composite Outcome: 594 (12.0%) vs 663 (13.4%) HR 0.88 (95% CI 0.79-0.99) p=0.026; ARR 1.37%; NNT ~73	Primary Composite Outcome: ** 108 (6.55%) vs 146 (8.85%) HR 0.74 (95% CI 0.58-0.95) p=0.02; ARR 2.30%; NNT ~44
MORBIDITY OUTCOMES	Non-Fatal MI: NSD Non-Fatal Stroke: NSD	Non-Fatal MI: NSD Non-Fatal Stroke: NSD	Non-Fatal MI: NSD Non-Fatal Stroke: 135 (2.73%) vs 175 (3.53%) HR 0.76 (95% CI 0.61-0.95) p=0.017; ARR 0.81%; NNT ~125	Non-Fatal MI: NSD Non-Fatal Stroke: ** 27 (1.64%) vs 44 (2.67%) HR 0.61 (95% CI 0.38-0.99) p=0.04; ARR 1.03%; NNT ~98
MORTALITY OUTCOMES	Cardiovascular Death: 219 (4.69%) vs 278 (5.95%) HR 0.78 (95% CI 0.66-0.93) p=0.007; ARR 1.26%; NNT ~80	Cardiovascular Death:* 15 (0.94%) vs 30 (1.88%) HR 0.49 (95% HR 0.27-0.92)	Cardiovascular Death: NSD	Cardiovascular Death: NSD

PIONEER 6



These trials demonstrate the cardiovascular safety of GLP-1 RAs in patients with type 2 diabetes.

- * Cannot make claims about individual components of the primary composite outcome due to failure to demonstrate superiority for the composite as a whole (results must be considered exploratory).
- ** Trial not powered for superiority interpret results with caution.

SUSTAIN-6