#### WEIGHT LOSS EFFICIENCY ON LOW-DOSE, SLOW-LOADING GLP1 ANALOGUE THERAPY -LIRAGLUTIDE

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## BACKGROUND

- SCALE trial (2015)
  - Patients titrated over 6 weeks to 3mg s.c. injection daily liraglutide
  - Median weight loss was 5% in 2/3 and 10% in 1/3 of patients.
  - The rapid titration is associated with greater adverse events (AEs).
- In the Cork Clinic, we titrate slowly to a max dose of 1.8mg/day to reduce AEs.
- We were keen to see how well patients responded to this low-dose, slow-loading regimen.
- Rationale: cost efficiency, tolerability and adherence.
- Our observations were that outcomes at this dose equated the SCALE trial. Ethics approval.

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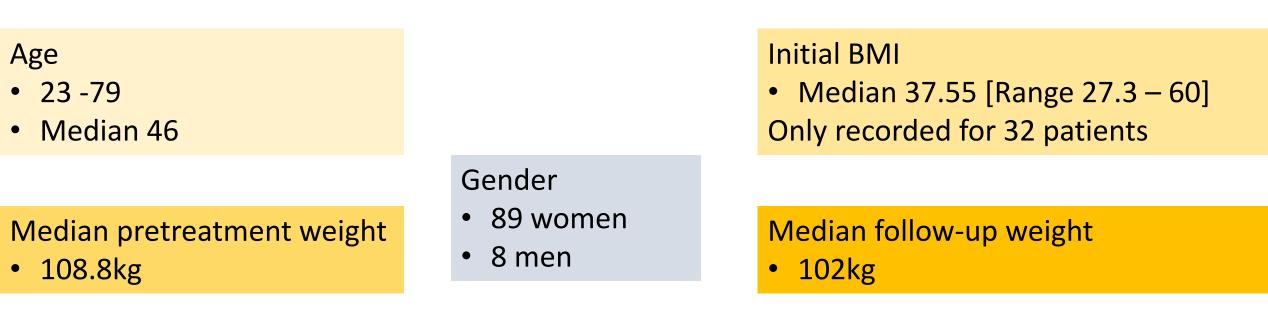
# METHODOLOGY

- Retrospective database review using SOCRATES database
- Inclusion criteria
  - Patients attending the Cork Clinic, aged > 18 years
  - Initiated on liraglutide from Jan 2021 May 2023, titrated to a modified dose of 1.8mg/day
- Data was analysed in the Cork Clinic, using an Excel sheet and SPSS version 29.
- Aim: To evaluate the response in all patients titrated to 1.8mg/day liraglutide at 6 months and determine % weight loss incurred
- Primary outcome of interest % weight loss at the modified dose

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## **DEMOGRAPHICS- Data Collection**



### Median % weight loss

- 7%
- Range 0-26%

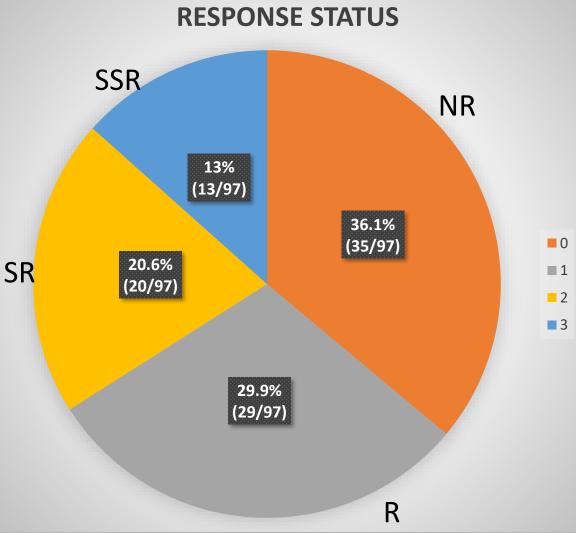
#### Median weight loss (kg)

- 7.1kg
- 0-30kg

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## RESULTS



% weight loss	Response status given
36.1%	Non-responder <5%
29.9%	Responder 5-9%
20.6%	Super responder <u>&gt;</u> 10%
13%	Super super responder <u>&gt;</u> 15%

# 63.5% lost <u>>5%</u> initial body weight 33.6% lost <u>>10%</u> of their weight

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# DISCUSSION

% Weight loss	SCALE TRIAL 3.0mg liraglutide	OUR STUDY 1.8mg liraglutide
<u>&gt;</u> 5%	63.2%	63.5%*
<u>&gt;</u> 10%	33.1%	33.6%*
<u>&gt;</u> 15%	14.5%	13%*

- Effective weight loss at 1.8mg/day liraglutide.
- Benefits: Weight loss + CV benefit,  $\downarrow$  AEs & cost.
- Treatment is a lifelong commitment & studies have shown weight gain on stopping drugs.
- A modified dose will last longer and incur less cost with similar benefits to full dose.
- We need to be realistic about cost, availability and efficacy in this unstable market.

\*Paired t-test significant @ p < 0.001 \*Palated samples Wilcoven Signed Bank significant

\*Related-samples Wilcoxon Signed Rank significant @ p < 0.001

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