


Real-World Drivers of Adherence in Obesity Highlight the Need for Patient-Centred Interventions

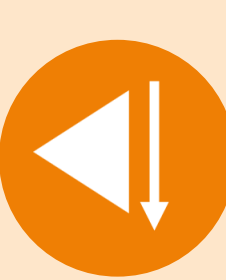
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Background and Objective


- > Obesity is a complex, chronic condition requiring sustained lifestyle changes, and often pharmacological and/or surgical interventions.
- > Despite the availability of effective treatments, adherence to lifestyle changes and treatment regimens remains a key determinant of real-world outcomes.¹
- > Yet in real-world settings, treatment success hinges not just on clinical efficacy, but on the lived experiences of people navigating these lifestyles and therapies.²
- > Adherence is shaped by factors such as affordability, perceived effectiveness, and tolerability.²
- > Understanding what drives or disrupts adherence from the patient perspective is essential to design interventions that truly meet their needs.³
- > This analysis aimed to identify drivers of adherence in people living with obesity (PLWO) in a real-world clinical practice setting.


Methodology

**Source:** Adelphi Real World Obesity Disease Specific Programme (DSP)TM

**Cross-sectional** survey of physicians and PLWO


Conducted in Europe, the United States and Australia from **Oct 2023 – Apr 2024**

The DSP methodology has been described, validated and demonstrated to be representative and consistent over time.⁴⁻⁷

Physicians completed questionnaires for eight consecutively consulting PLWO. The same PLWO were invited to complete a voluntary questionnaire, independent from their physician/healthcare practitioners.

	Physicians	People Living with Obesity
Inclusion criteria	<ul style="list-style-type: none">Primary care physician; internist; diabetologist; endocrinologist; cardiologist or obstetrician/ gynaecologist (<i>differed by region</i>).Responsible for management of ≥10 PLWO/month.	<ul style="list-style-type: none">Current/previous BMI ≥30 or BMI ≥27 with >1 weight related comorbidityAt time of data capture:<ul style="list-style-type: none">> <i>On a weight management programme</i>> <i>Not on a clinical trial for obesity</i>
Information provided	<ul style="list-style-type: none">Body mass index (BMI), sociodemographics, comorbidities, obesity duration and number of obesity medicines for PLWO.	<ul style="list-style-type: none">Lifestyle behaviours, medication experiences, information sourcesAdherence using the 11-item Adelphi Adherence Questionnaire® (ADAQ; where 0=adherent, 4=non adherent)⁸⁻¹⁰

Statistical analysis

A linear elastic net regression with 10-fold cross-validation was used to determine which PLWO characteristics were predictive of ADAQ. P-values were derived through bootstrapping with 1000 iterations.

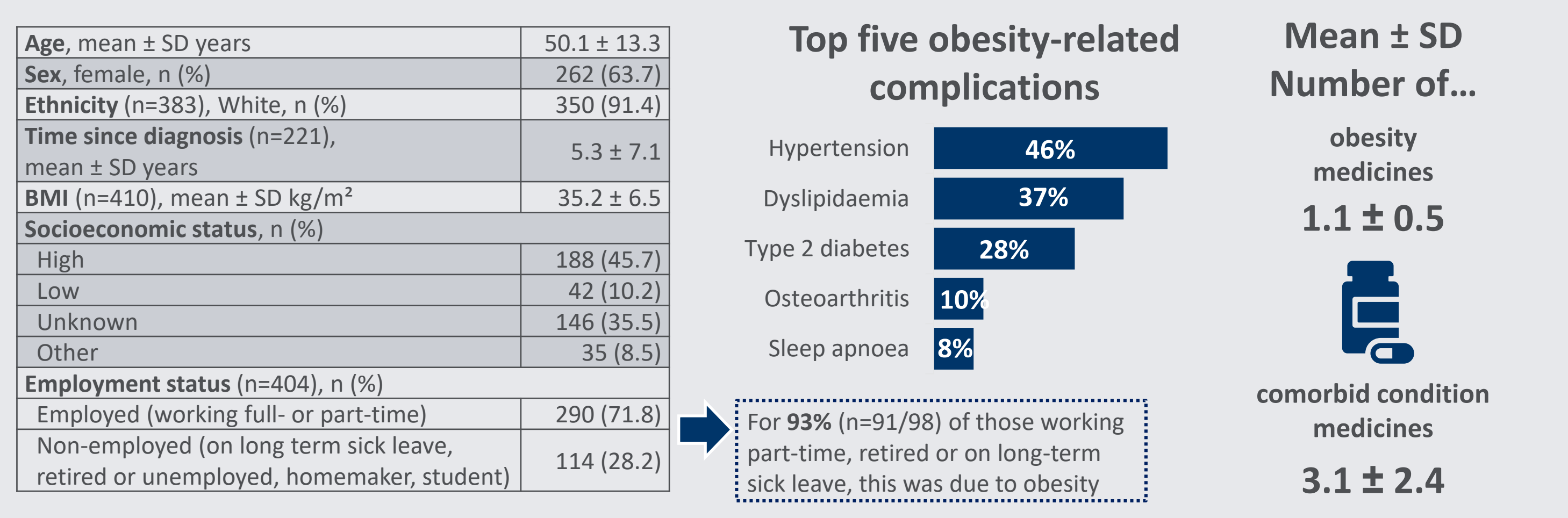
† **PLWO characteristics input into the model (including 318 variables across 8 themes):**

- Demographics:** Age, employment, smoking and socioeconomic status, rural/urban living, consultation preference
- Access/Out of Pocket:** health insurance status, monthly income spent on obesity
- Quality of life:** health-related quality of life, sleep evaluation
- Support:** comfort talking to family/friends about weight, information sources used
- Lifestyle:** Level of change to i) lifestyle, and ii) lifestyle changes recommended by physician
- PLWO feelings:** Feelings towards i) diet/exercise programme, ii) how well weight management plan was explained, iii) how well understanding how to lose weight, iv) happiness with weight, v) embarrassment about weight in public, vi) if others made PLWO feel shame in public, vii) putting weight on in future, viii) tasks important to do to help manage weight loss, ix) tasks which are most difficult to do when losing weight, and x) if have enough information about how to manage weight
- Weight loss history:** phenotype, aetiology, number of weight loss attempts, whether weight loss attempts are periodical or all the time, paths to access/support used, current weight loss methods used, reasons for stopping weight loss attempt in past, and what PLWO are hoping for/has happened when lose/lost weight
- Weight loss medicine:** telemedicine prescribing, reasons for taking prescribed medication, reasons for stopping prescribed medication

Results

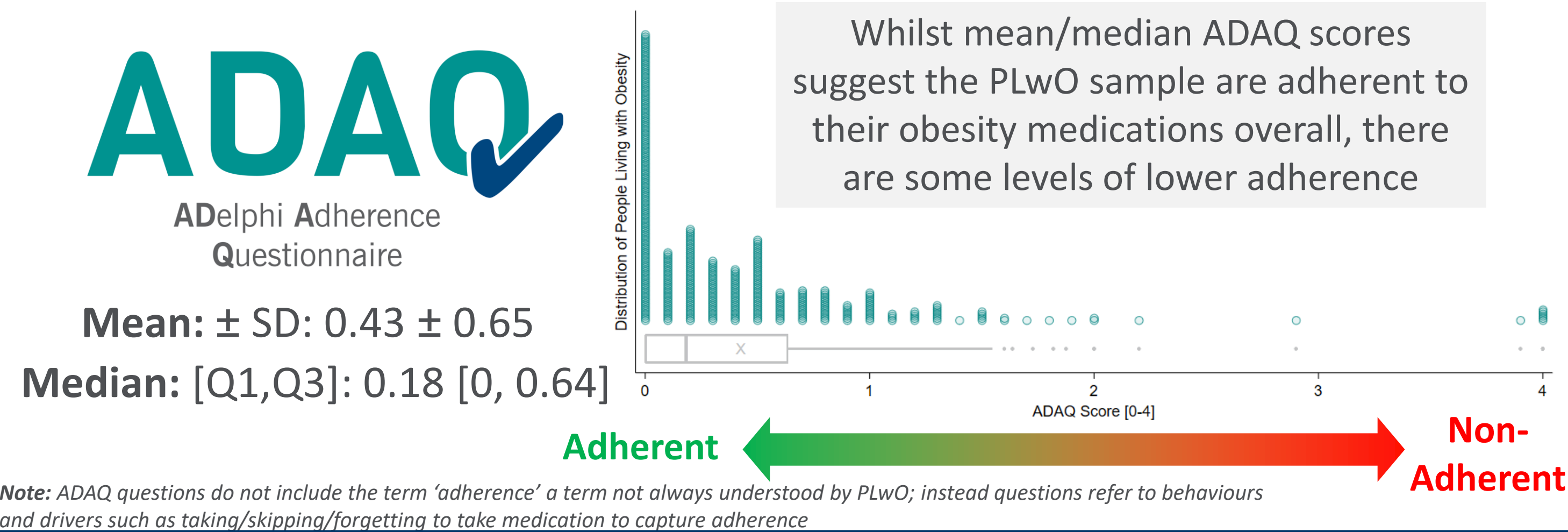
- > A total of 201 physicians reported on 411 PLWO whom had a corresponding self-completed questionnaire.

Figure 1. Sociodemographics and Clinical Characteristics of PLWO at data capture, n=411



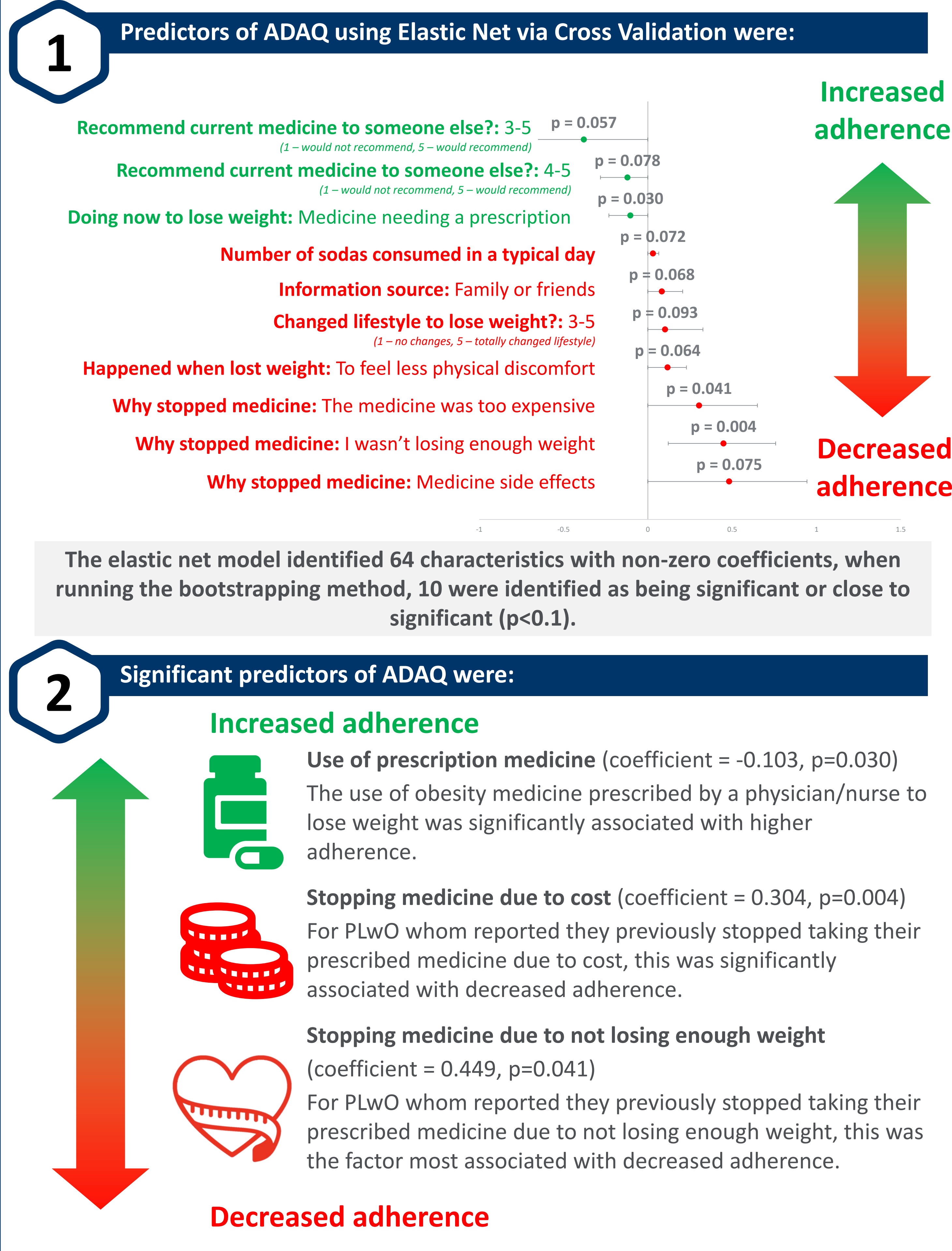
Bases for some analyses differ and, where applicable, are indicated
Abbreviations: **BMI**, body mass index; **SD**, standard deviation




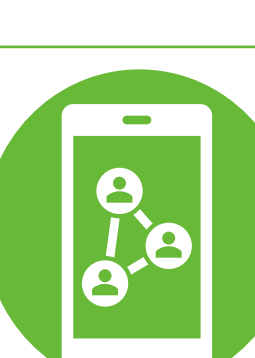
Figure 2. Overall ADAQ Score, n=411



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Figure 3. Predictors of ADAQ using Elastic Net via Cross Validation



Conclusions	Possible Patient-Centred Directions
 <ul style="list-style-type: none">➤ Cost and feeling the medicine doesn't work to aid weight loss were identified as key drivers of non-adherence in PLWO via linear elastic net regression.	<ul style="list-style-type: none">➤ Cost, insurance, and access could be considered by physicians when making treatment decisions to support adherence through personalised planning.➤ Displaying cost on packaging may help PLWO perceive value, potentially boosting motivation to continue treatment.
 <ul style="list-style-type: none">➤ Prescription-based interventions were associated with improved adherence.	<ul style="list-style-type: none">➤ Medication experiences, including side effects, expectations and emotional responses, could be proactively discussed with PLWO to support engagement.
 <ul style="list-style-type: none">➤ While medication experiences were key predictors of adherence, lifestyle behaviours and information sources showed limited influence, with only marginal associations observed.	<ul style="list-style-type: none">➤ Success metrics could extend beyond weight loss to include patient-reported outcomes such as energy, mobility, and wellbeing.➤ Co-designed, PLWO-led resources may help bridge current information gaps by making content more relevant, accessible and trusted.
 <ul style="list-style-type: none">➤ Systematic adherence assessment in clinical practice may enable more tailored and effective interventions.	<ul style="list-style-type: none">➤ Routine monitoring via electronic health records, patient portals or apps could help identify at-risk patients early and personalise support.

These findings underscore the need for patient-centred, inclusive strategies that reflect real-world barriers and priorities in obesity care to improve adherence.

Limitations

- > While minimal inclusion criteria governed selection of participating physicians, participation was influenced by willingness to complete the survey. Patients may not be representative of the overall PLWO population.
- > Recall bias, a common limitation of surveys, may have affected responses to questions. However, physicians had access to their PLWO medical records, reducing the risk of recall bias.
- > Predictors identified represent associations and do not imply causal relationships.
- > A linear regression model was used, however, the relationship between predictors and the outcome may not be linear

References

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- > VH, AL, SB and JP are employees of Adelphi Real World, Bollington, UK.
- > MD is an employee of MD Healthcare; NED, NHS Advancing Quality Alliance.
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- > This work includes contributions from a patient advocate, Mark Duman, with lived experience of obesity.