

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)™

 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 (differed by region). Responsible for management of ≥ 10 PLwO/month. 	<ul style="list-style-type: none"> Current/previous BMI ≥ 30 or BMI ≥ 27 with >1 weight related comorbidity At time of data capture: <ul style="list-style-type: none"> > On a weight management programme > Not on a clinical trial for obesity
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 sources Adherence 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.

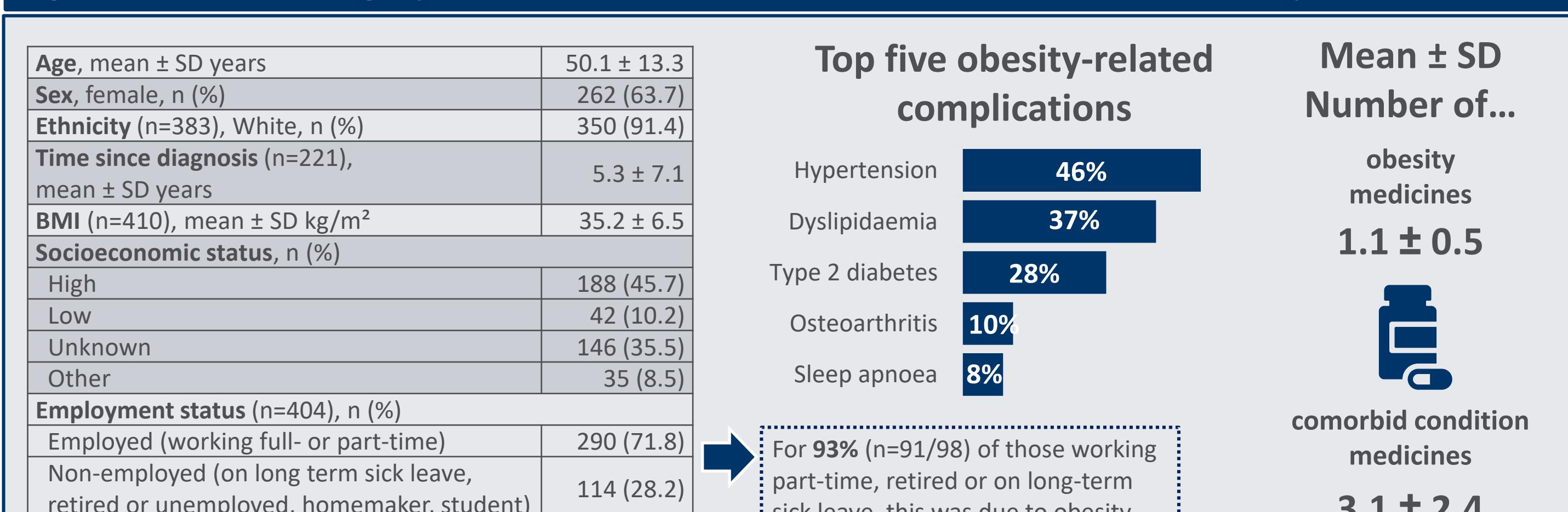
† PLwO characteristics input into the model (including 318 variables across 8 themes):

- 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

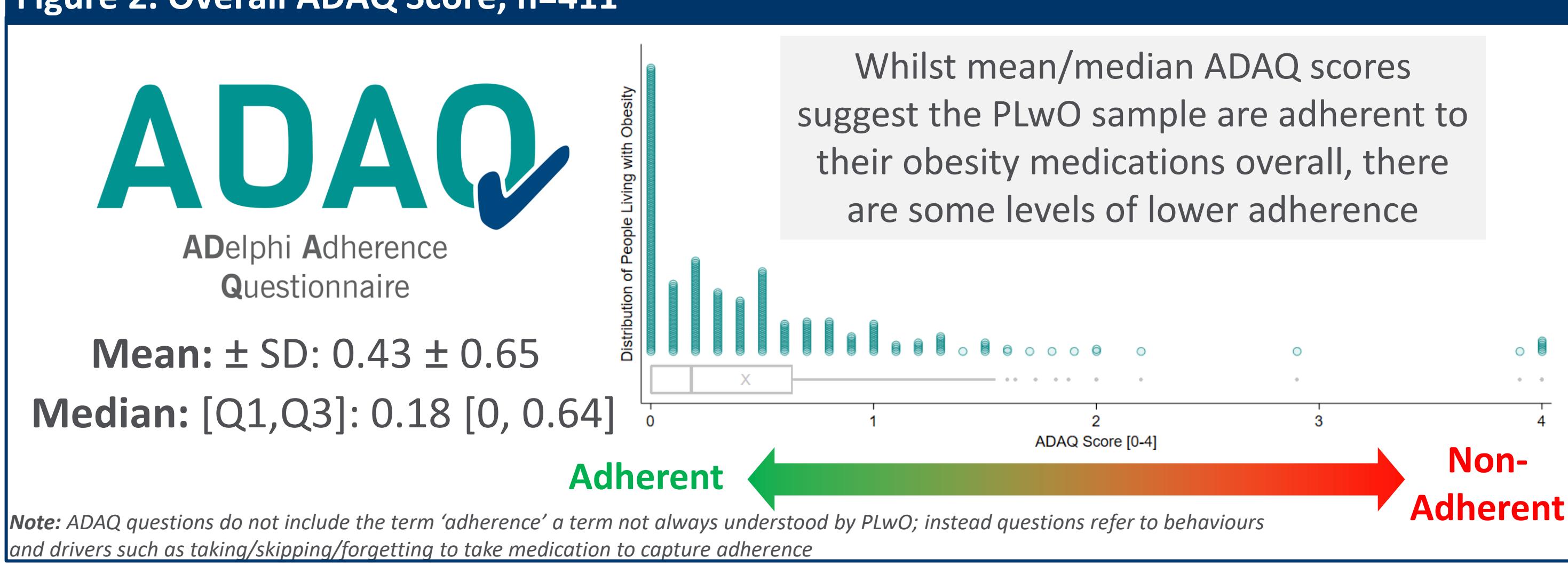
- A total of 201 physicians reported on 411 PLwO whom had a corresponding self-completed questionnaire.

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

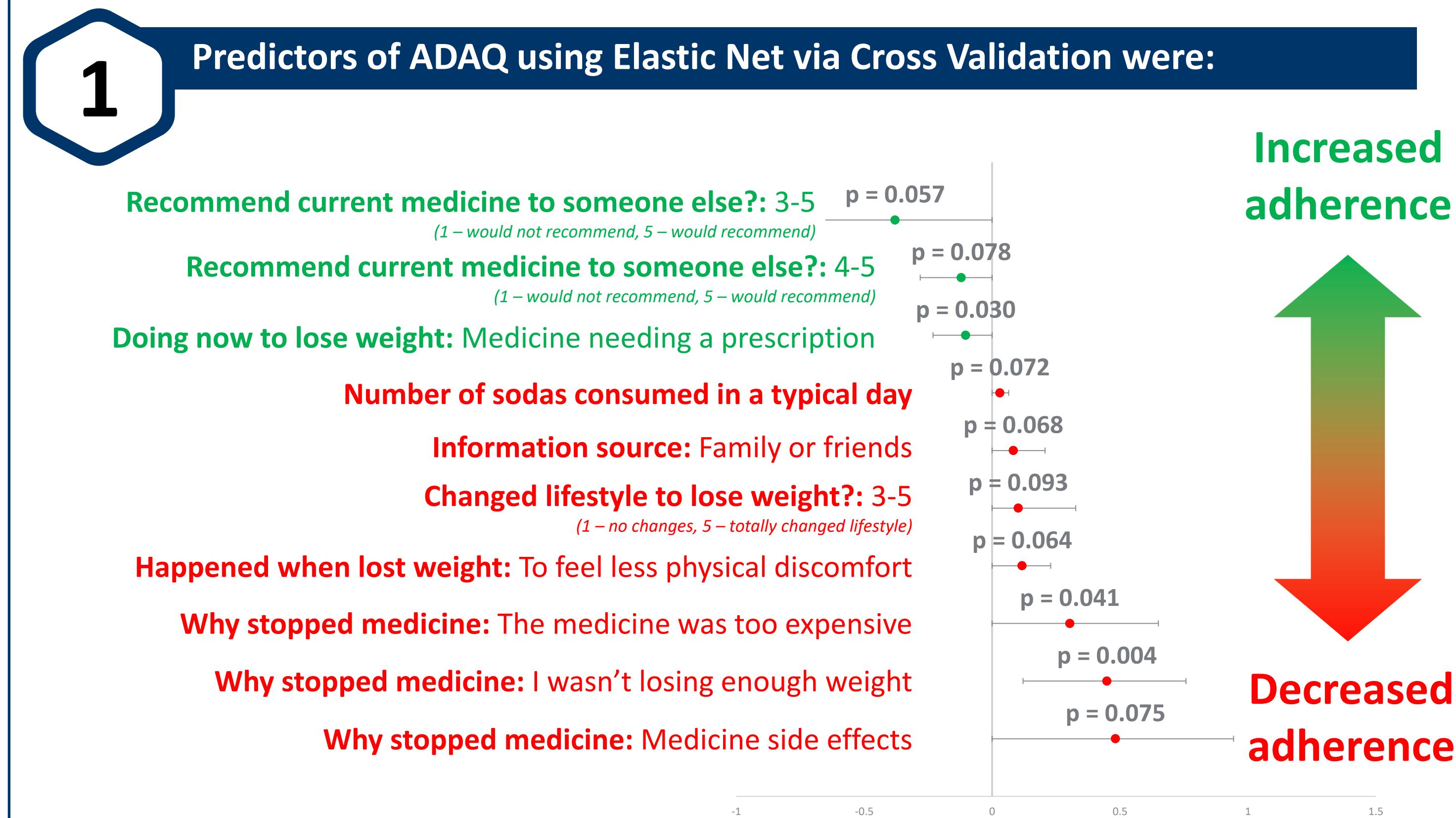
Figure 2. Overall ADAQ Score, n=411



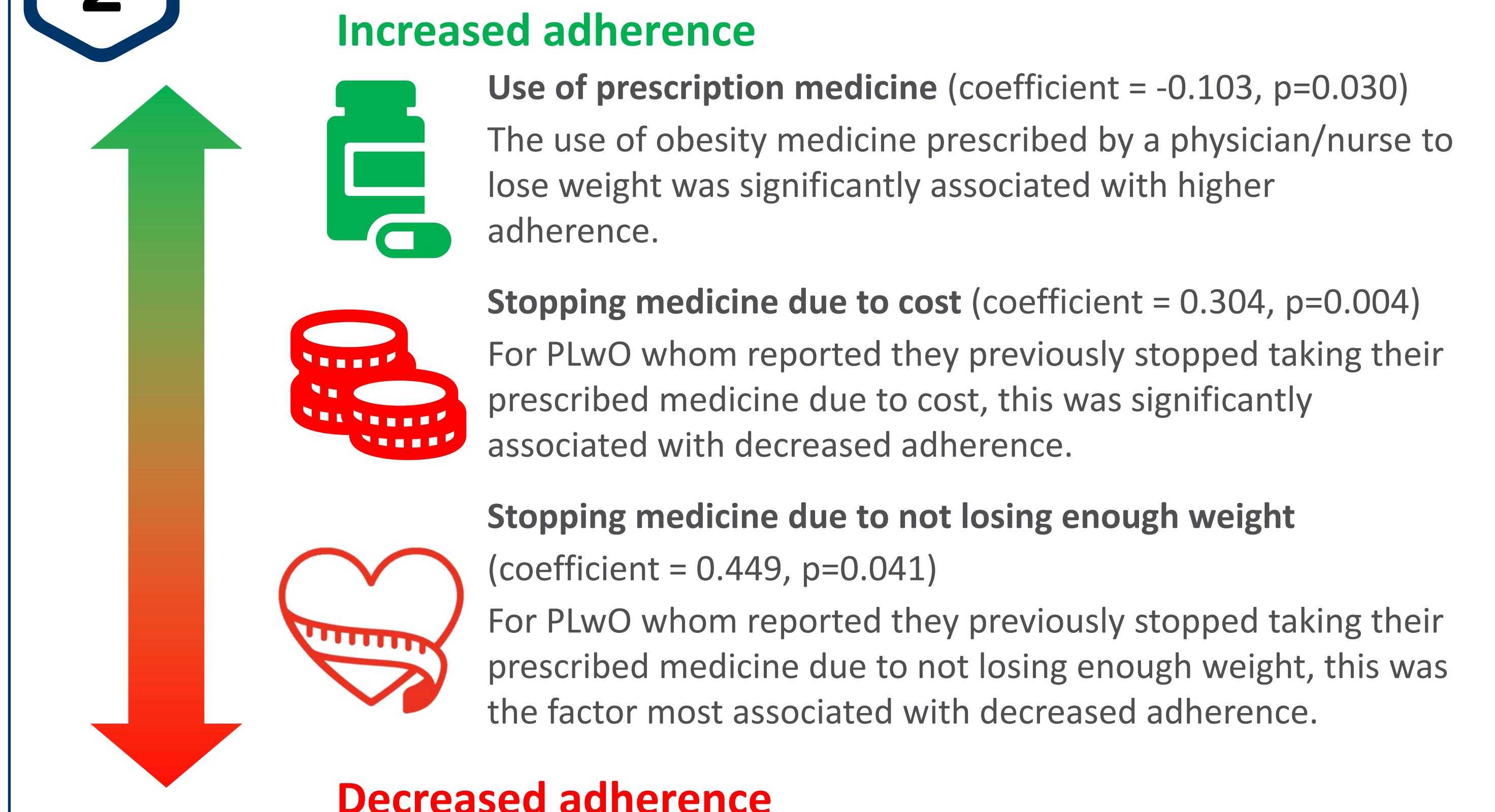
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Figure 3. Predictors of ADAQ using Elastic Net via Cross Validation



2 Significant predictors of ADAQ were:



Conclusions

	Possible Patient-Centred Directions
	<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"> 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"> Systematic adherence assessment in clinical practice may enable more tailored and effective interventions.

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.

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- 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.