

# Patient-Driven Outcome Selection (PDOS): a patient-focused approach for selecting outcomes using patient-generated data

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## INTRODUCTION

- Patient-Reported Outcomes (PROs) are increasingly used to support the development and the evaluation of health products and services. Due to the wide variety of instruments available, identifying the most suitable PRO to use in a specific context might be complex.
- There is **no consensus on a standardized method to choose PROs** considering the scientific context and the regulatory recommendations.
- This research aimed at **developing a patient-centric, structured, replicable and generalizable method for PROs selection and development using patient-generated data.**

## PATIENT-CENTRIC APPROACH (PATIENT-DRIVEN OUTCOME SELECTION - PDOS) TO OPTIMIZE PRO SELECTION

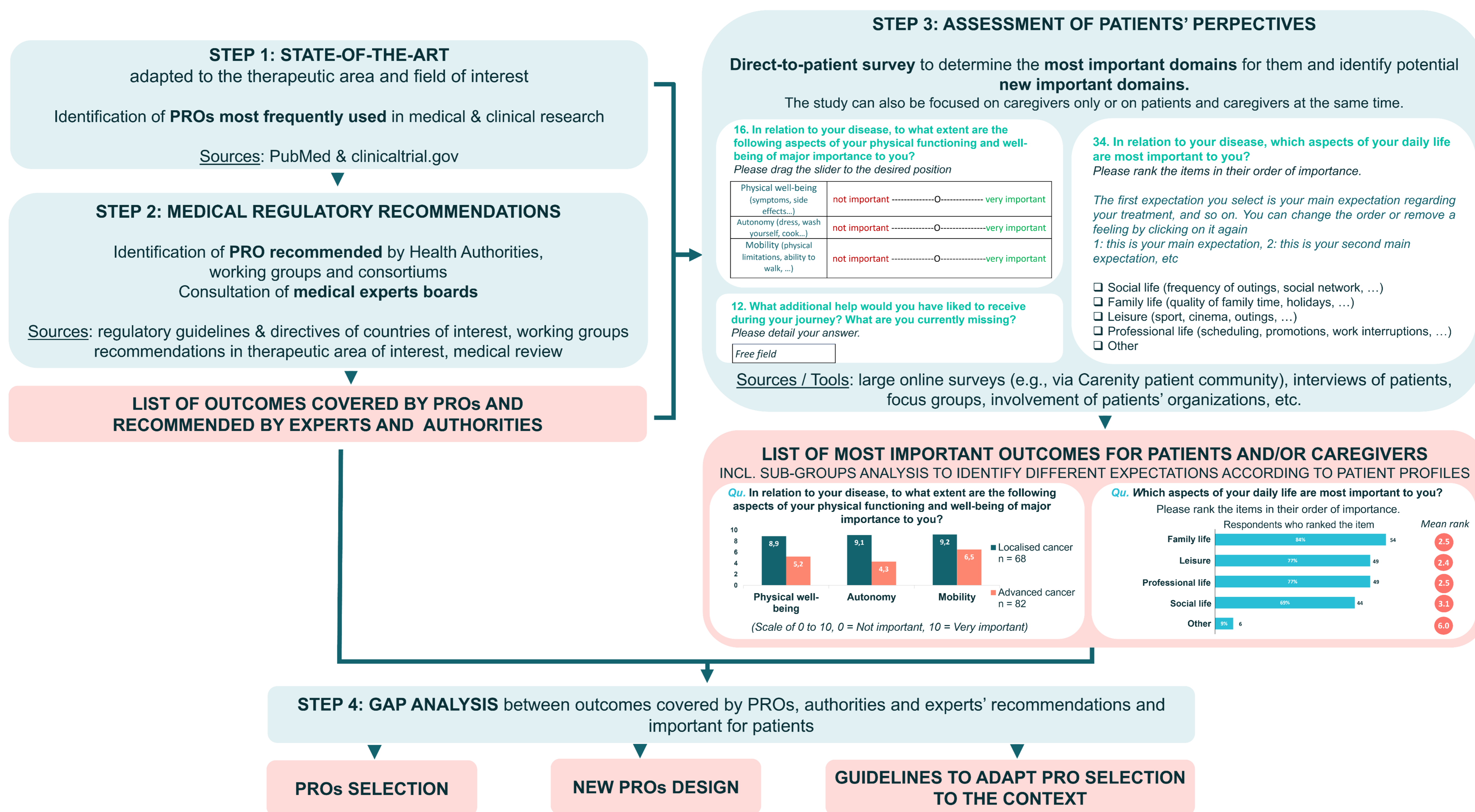


Figure 1: Presentation of the method PDOS (Patient-Driven Outcome Selection)

## PRACTICAL APPLICATIONS OF PDOS IN DIABETES, BREAST CANCER AND LUNG CANCER

PDOS method has been applied in the **diabetes** (n=249 respondents) and **breast cancer** (n=146 respondents) areas and respectively showed that patient's perspectives can differ for a treatment than for a digital health solutions (figure 2) and can depend on the profile of the patients (e.g, age). For instance, in the application to breast cancer, impact on quality of life was ranked among the 3 most important domains by 62% of patients younger than 60 years but only by 31% of patients older than 60 years old.

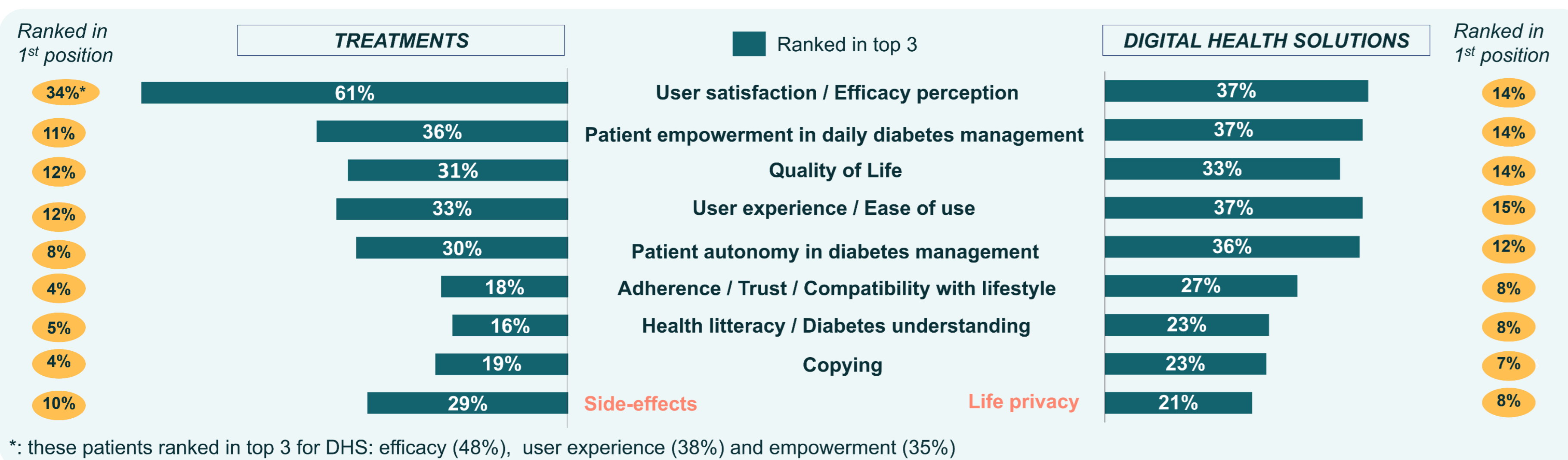


Figure 2: Most important domains for patients with **diabetes** for the evaluation of treatments and digital health solutions (n= 249 respondents)

Evaluation of the method in **breast and lung cancer** have also shown that domains valued by medical and HEOR experts and those valued by patients in existing PROs could differ (table 1 and 2).

## CONCLUSIONS

- The increasing importance of Health-Related Quality of Life (HR-QoL) in healthcare decision-making reinforces the need to choose relevant PRO measures.
- This new patient-centric approach presents the advantage of considering patients' expectations in the choice of instruments. This approach also contributes to more in-depth discussions, streamlines the study process, and enhances its overall credibility by backing up the measured outcomes.
- The methodology developed in this pilot showed promising results tending to apply to several conditions (breast cancer, lung cancer or diabetes). Further investigations could be implemented in order to test this methodology in other therapeutic areas.

## REFERENCES - COMMUNICATION

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Table 1: Comparison of domains covered by PROs and valued by patients with **breast cancer** (n=146 respondents)

DOMAIN	Current PROs	Patients' perspectives
Quality of Life (personal, professional, social, physical and emotional well-being)	Major Domain	Major Domain
Survival vs QoL considerations (efficacy, side effect)	Major Domain	Major Domain
Satisfaction with cancer healthcare pathway	Major Domain	Major Domain
Coping strategy (attitudes and behaviors used to maintain emotional well-being and to adjust to the stresses caused by cancer)	Major Domain	Major Domain
Satisfaction and confidence in decision-making	Major Domain	Major Domain
Burden of the disease (lack of energy, ability to feel like a woman, pain, weight loss)	Major Domain	Major Domain
Information provided on treatment efficacy, side effects, administration...	Major Domain	Major Domain
Use of complementary therapies to reduce the side effect and the impact on QoL	Major Domain	Major Domain

Table 2: Comparison of domains covered by PROs and valued by patients with **lung cancer**

ITEM	PROs (FACT-L, EQ5D-5L, QLQ-C30, QLQ-LC13, ICHOM guidelines)	Medical & HEOR experts (n= 4)	Patients & caregivers Online questionnaire (n=150)
Daily life	Major Domain	Major Domain	Major Domain
Professional life	Major Domain	Major Domain	Major Domain
Physical functioning and well-being	Major Domain	Major Domain	Major Domain
Emotional well-being	Major Domain	Major Domain	Major Domain
Medical care	Major Domain	Major Domain	Major Domain
Treatment care	Major Domain	Major Domain	Major Domain
End-of-life care	Major Domain	Major Domain	Major Domain
Economic burden	Major Domain	Major Domain	Major Domain
Relationship with HCPs	Major Domain	Major Domain	Major Domain
Caregivers' perspectives	Major Domain	Major Domain	Major Domain