Make Her Voice Count: Understanding the Use of Patient-Reported Outcomes in Contraceptive Trials



ADELPHI VALUES

Kaelyn Rupinski¹, Madison C. Bernstein¹, Nina Sankriti Kumar¹, Nikita Murli¹, Sarah Ollis¹, Daniella Olonilua¹, Madeline Tallarico¹ ¹Adelphi Values Patient-Centered Outcomes, Boston, United States

Introduction

- > In the Food and Drug Administration's (FDA) December 2009 guidance on the use of patient-reported outcomes (PROs) in medication product development to support labeling claims, inclusion of PROs is "advised when measuring a concept best known by the patient or best measured from the patient perspective."1(p.2)
- > Hormonal and non-hormonal contraceptives continue to be developed and assessed; however, many contraceptives were evaluated prior to the FDA PRO guidance.
- > Contraceptives can be used for pregnancy prevention as well as additional purposes (e.g., menstrual pain,² acne³), and assessing a variety of dimensions in clinical research beyond pregnancy is essential to fully understand patient experiences with contraceptives.
- > This research aimed to evaluate the inclusion of PROs in clinical trial measurement strategies for contraceptives to provide insight into how the patient voice has been considered both before and after the FDA PRO guidance.

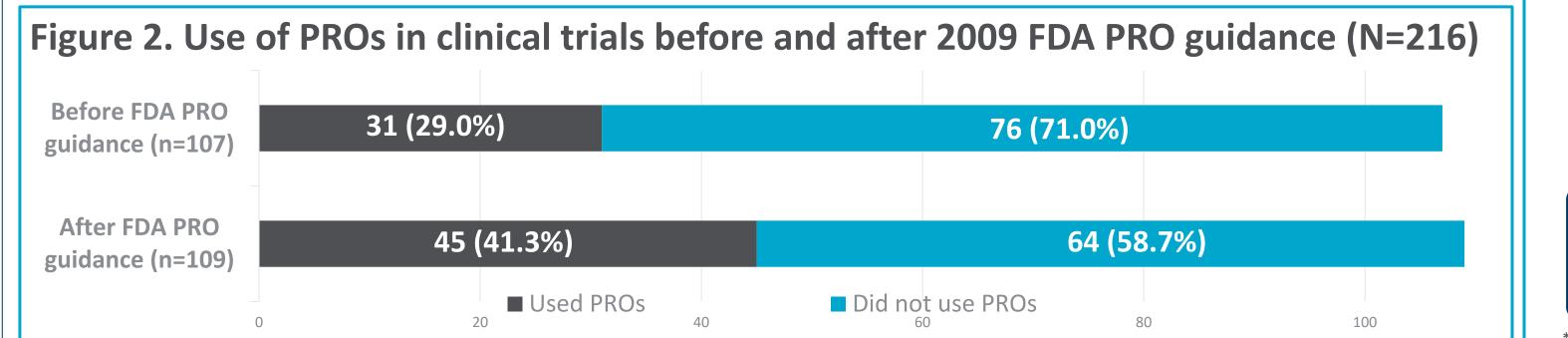
Methodology Figure 1. Overview of methods A search was conducted **Evaluation of** Trials that reported use using ClinicalTrials.gov Data extraction of PROs were assessed to identify Phase 2-4 trends to note which PRO trials focusing on instruments were used interventional Extracted PROs and (e.g., named, contraceptive Information was unspecified) and which concepts were merged treatments for female extracted from the based on likeness and concepts each PRO patients identified trials, organized into instrument measured including: categories Date of initiation Assessment of • Trends in use of PROs Clinical trial Intervention type before and after the **PROs** Utilization of PROs in search FDA PRO guidance were the trial endpoints identified

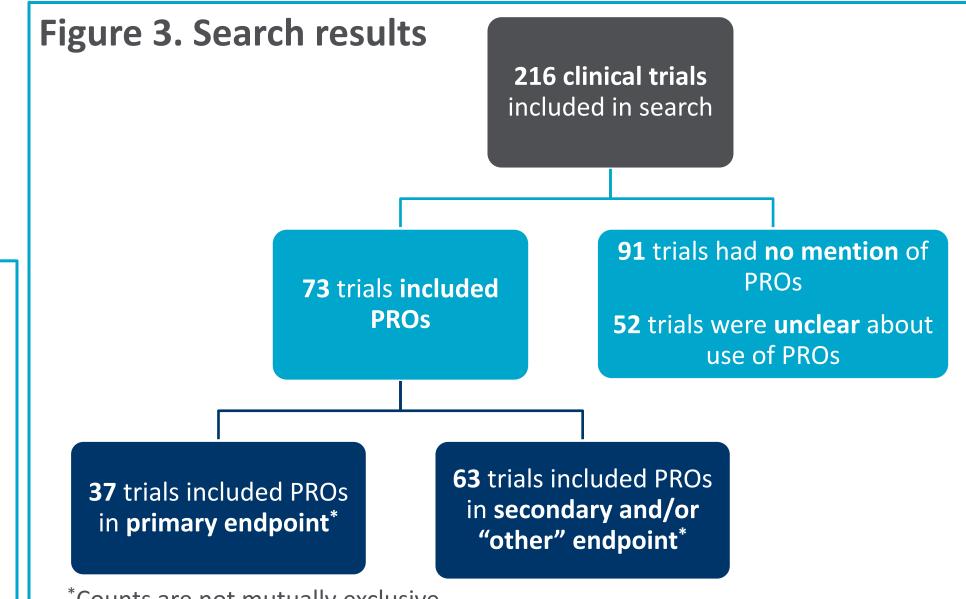
Conclusions

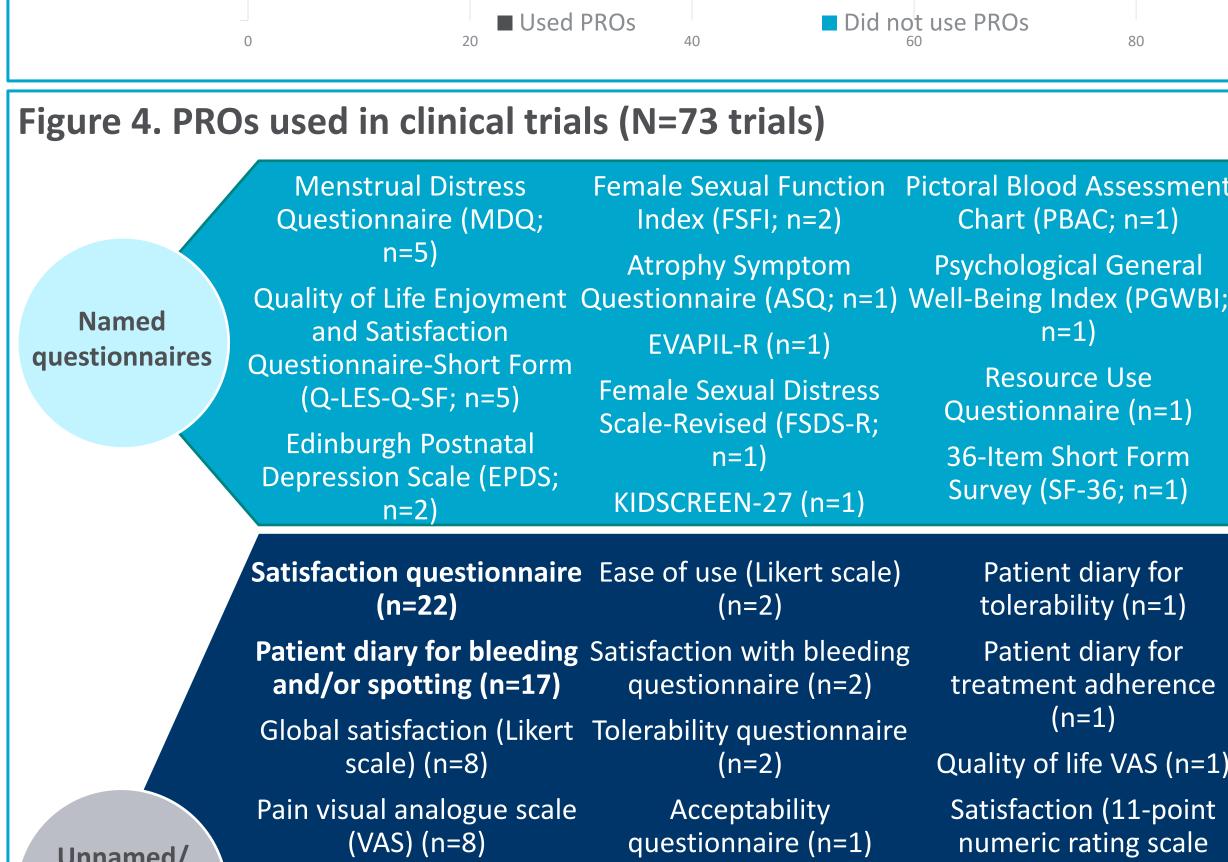
- > Following the 2009 FDA PRO guidance, there was an observable increase in the utilization of PROs in clinical trials related to contraceptive efficacy, highlighting the recognition within the field of the importance of incorporating patient perspectives into the evaluation of contraceptive methods.
- > Despite this increase, PROs were used in less than half of examined trials, demonstrating the underrepresentation of patient-reported experience in clinical trial endpoints.
- > A limited range of concepts were frequently or consistently assessed across the trials that did use PROs, suggesting that patient-reported data may still be limited or not comprehensively captured despite the increased use of PROs.
- > Expanding this research to look beyond the FDA and consider the impact of regulatory guidance in other countries related to PRO use, as well as to look closer into differences between measurement strategies for hormonal and non-hormonal contraceptives could create a stronger understanding of gaps in the patient voice in contraceptive research and development.
- > The future of contraceptive development should aim to broaden the assessment of the patient perspective. This could involve expanding the use of PROs in clinical trial measurement strategies and the scope of concepts evaluated through PRO instruments, including research into what patients consider to be important and relevant when it comes to contraceptive use (e.g., signs, symptoms, HRQoL impacts).

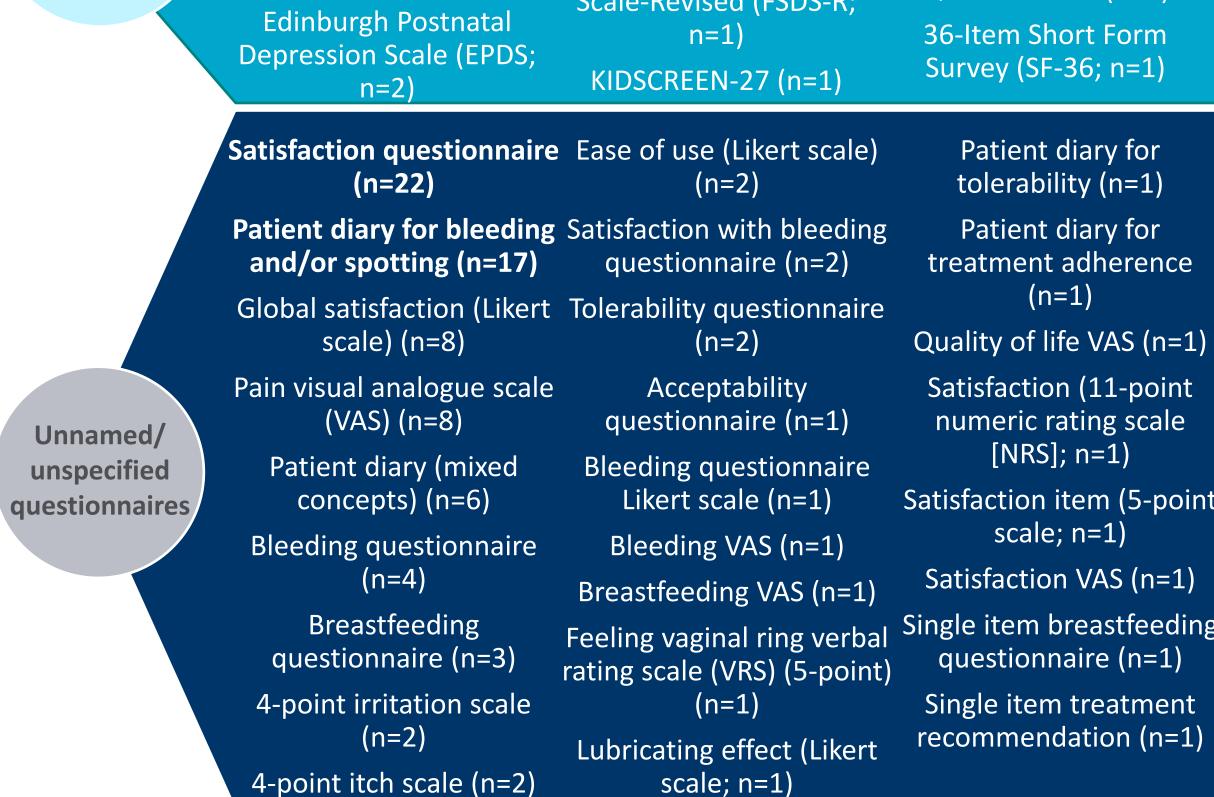
Results

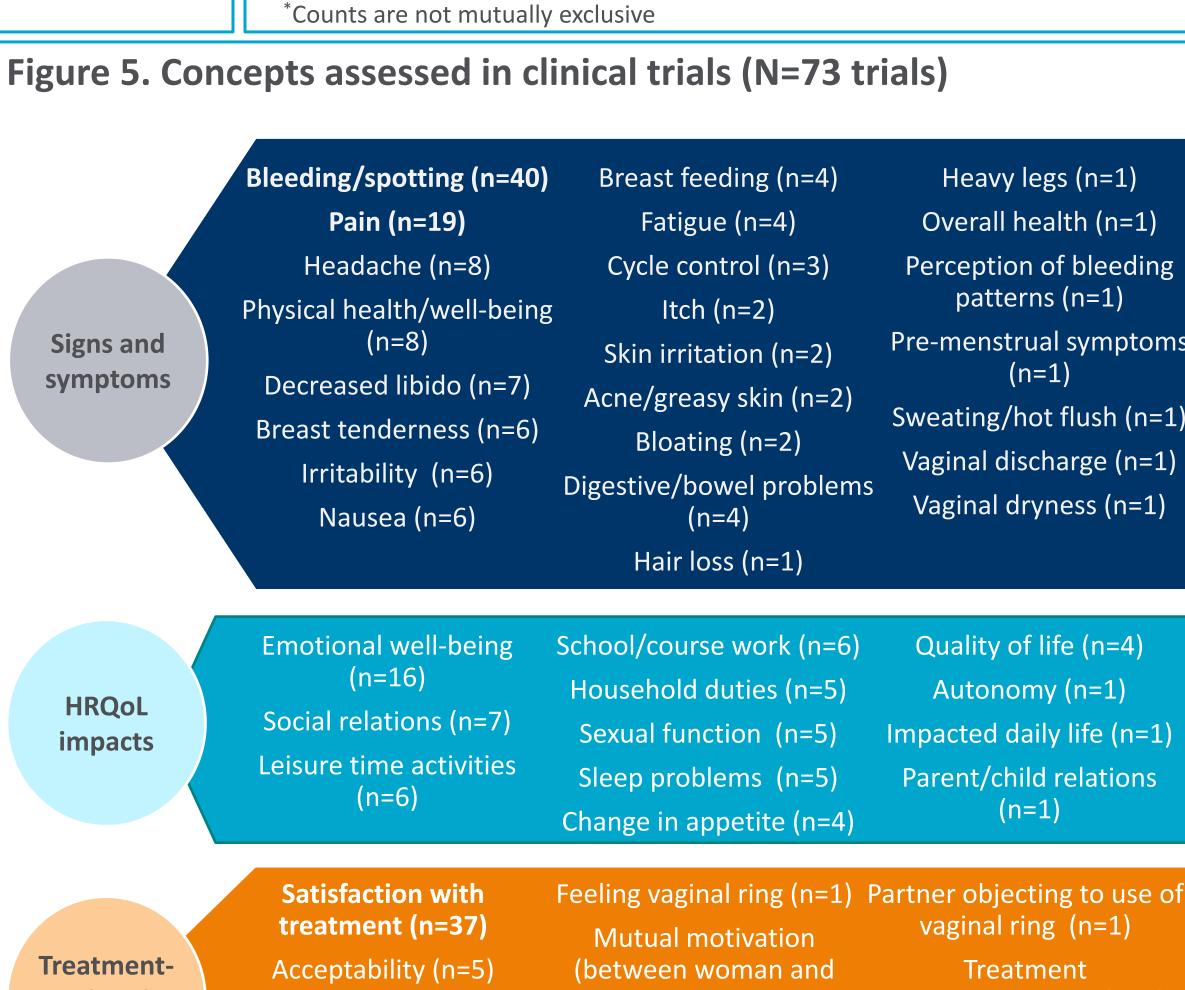
- > The search identified 244 clinical trials initiated between January 1997 and August 2022; 216 were ultimately included in the review and 28 were excluded as they did not evaluate interventional contraceptives in female participants (Figures 2 and 3).
- > Seventy-three trials across 37 countries, the majority of which were inclusive of the United States, included PROs in their primary (n=37) or secondary/other endpoints (n=63; Figure 3).
- > Forty-one PROs were reported to be used across the clinical trials, including both named and unnamed/unspecified PROs (i.e., PRO mentioned but was unclear what kind of PRO or if PRO was designed specifically for that trial; Figure 4).
- The most frequently used PRO instruments were satisfaction questionnaires (n=22 trials) and a patient diary for bleeding/spotting (n=17 trials).
- > Forty-eight measurement concepts were assessed by PRO instruments across the clinical trials, including signs/symptoms, health-related quality of life (HRQoL) impacts, and treatment-related concepts (Figure 5).
- The most frequently assessed concepts were bleeding/spotting (n=40 trials) and satisfaction with treatment (n=37 trials).











compliance (n3)

Ease of use (n=3)

Tolerability (n=1)

contraceptive method;

Lubricating effect of

treatment (n=1)

References

- L. US Department of Health and Human Services, Food and Drug Administration, Center for Drug Evaluation and Research, Center for Biologics Evaluation and Research, Center for Devices and Radiological Health. Guidance for Industry: Patient-Reported Outcome Measures: Use in Medical Product Development to Support Labeling Claims. Office of Communications, Division of Drug Information; Dec 2009.
- . Arowojolu AO, Gallo MF, Lopez LM, Grimes DA. Combined oral contraceptive pills for treatment of acne. Cochrane Database Syst Rev. 2012;(6):Cd004425.
- 3. Creinin MD, Barnhart KT, Gawron LM, Eisenberg D, Mabey RG, Jr., Jensen JT. Heavy Menstrual Bleeding Treatment With a Levonorgestrel 52-mg Intrauterine Device. Obstet Gynecol. 2023;141(5):971-978.



Usability (n=1)

Cost (n=1)