

Addressing Methodological Challenges in International CNS Clinical Trials

ISCTM AUTUMN CONFERENCE WORKSHOP

Boston Park Plaza

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Guidance for Industry
Patient-Reported Outcome Measures:
Use in Medical Product Development
to Support Labeling Claims

A REVIEW: PURPOSE AND USE

THE FDA PRO GUIDANCE

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Clinical/Medical

Presenter Disclosure

Monika Vance - *Founder & President, Santium*

I have relevant financial relationships with the concepts described, reviewed, evaluated, or compared in this presentation.

Financial . financial compensation from Santium, with 100% ownership interest and income generated from government, healthcare and pharmaceutical industries; providing services centered on psychological assessment instrumentation, including management of psychometric and linguistic validations, and health outcomes research.

Non-financial - No relevant non-financial relationships to disclose.

FDA PRO GUIDANCE

A POSITION DOCUMENT

FDA's current thinking and attitude to dominant research trends in the pharma industry.

FDA's expectations for:

- “ alignment in information exchange
- “ optimal turn-around timeline

Draft: February 2006; Final: December 2009

It's *only* a **RECOMMENDATION**

Think of it as a **communication guide** for the type of information FDA expects to see in your submissions.

Do **NOT** think of it as a **methodology manual**.

REMEMBER:

The Guidance could never be a set of concrete requirements that pharma must follow line-by-line to ensure approval from FDA. That is why the guidance is not overly specific. If it were, even if only interpreted as such, it would limit progress in CNS drug development, your scientific and medical objectivity and judgment, and also disregard a monumental volume of psychometric research.

PRO GUIDANCE

INTENDED PURPOSE

To accelerate evaluation of claims for medical product labeling.

When...

PROs are used as clinical trial endpoints, and patients' voice is important in approval process.

Claim . statement or implication of treatment benefit

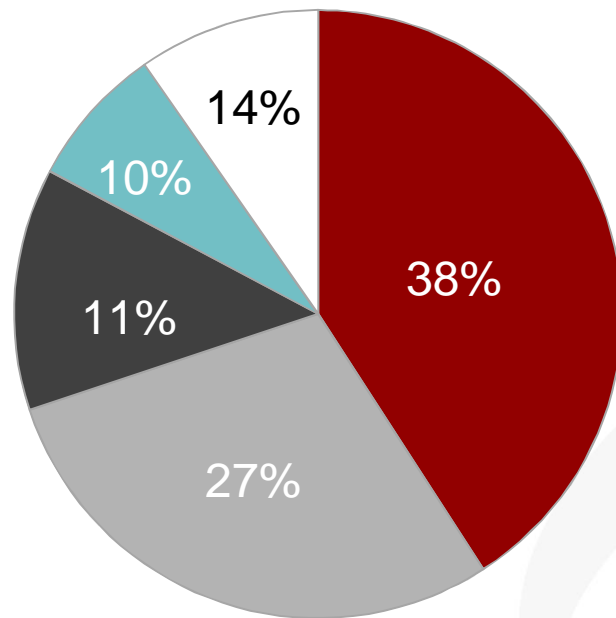
Labeling . packaging insert; description and summary of use, safety, and effectiveness of the medical product (i.e. drug, device, biologic etc.)

- “ Aimed at confirmatory trials
- “ Emphasizes need for supporting documentation:
 - . PRO development
 - . nature of modification
 - . psychometric properties and scoring
 - . statistical analysis and interpretation
- “ Supports industry's view that PROs are important for insights into unobservable symptoms, and relevant patient experiences without clinical interpretation by observing physicians.
- “ Explains FDA's SEALD division's logic and process when evaluating PRO label claims
- “ Passively implies application to ClinROs and ObsROs

WHY A GUIDANCE FOR PROs?

HISTORY: DENIALS OF CLAIMS

FDA 2006 - 2010
116 unique new brand drugs approved
52 with PRO label claims (44.8%)
26 denied (22%)



■ PRO Fit for Purpose

■ Study Design, Data Quality & Score Interpretation

■ Statistical Analysis Issues

■ Test Administration & Training Quality

□ No Rx Benefit

FDA: 213 PRO Violation Notices

- ~ Use of individual items: 45%
- ~ Insufficient evidence of content validity: 36%
- ~ Broadening claim beyond PRO construct: 27%
- ~ Design & data interpretation: 49%
- ~ Broadening claim beyond trial scope: 55%
- ~ No PRO used: 50%

Rejection rates for PRO claims remain high across therapeutic areas.

PRO GUIDANCE CONTENT

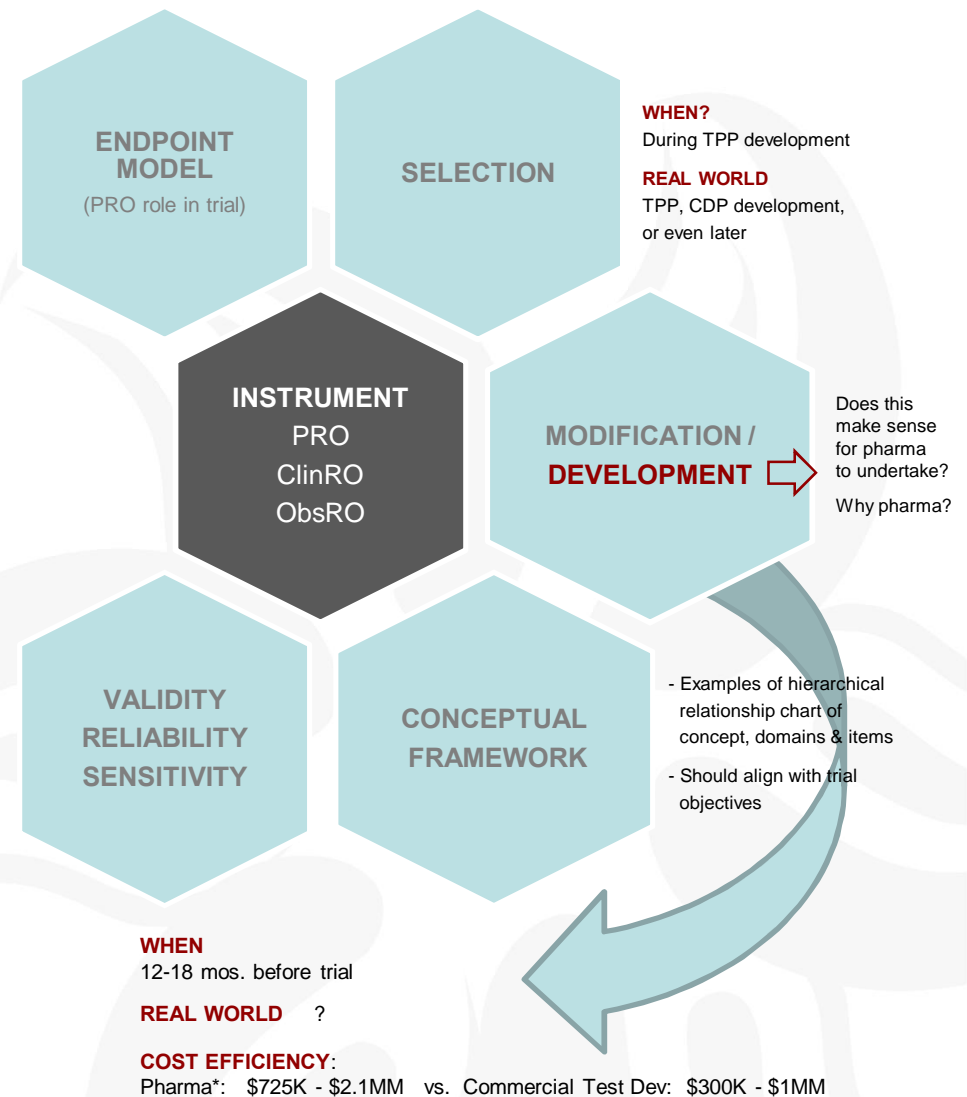
1. EVALUATION OF A PRO INSTRUMENT

2. CLINICAL TRIAL DESIGN

3. DATA ANALYSIS & INTERPRETATION

4. GLOSSARY

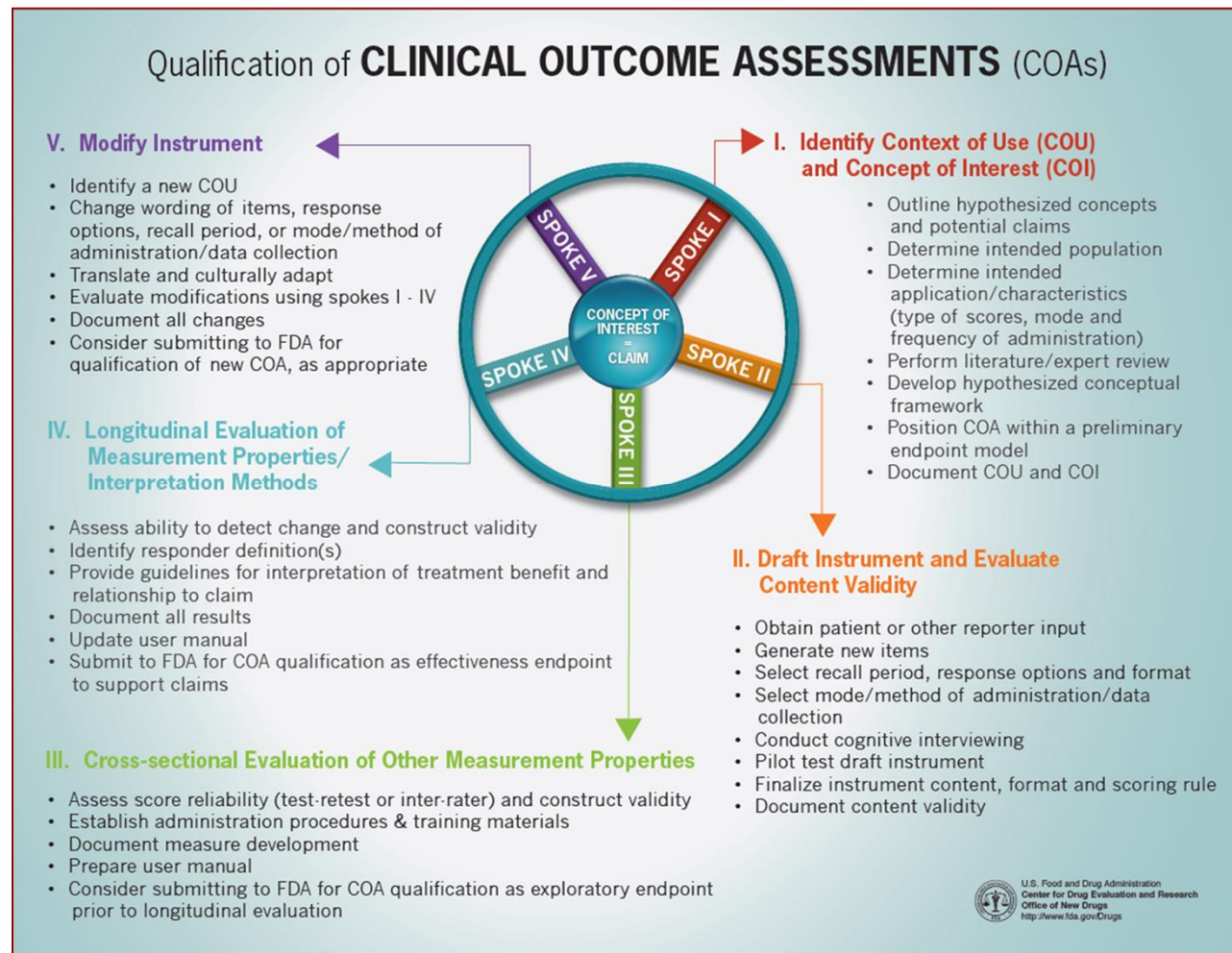
5. APPENDIX: DOSSIER TEMPLATE



INSTRUMENT MODIFICATION & DEVELOPMENT: The Agile Way

LINGUISTIC
VALIDATION

SPOKE I - V



PRO GUIDANCE

SOURCES OF CONFUSION RE: LINGUISTIC VALIDATION

- “ Inconsistency in detail across guidances
- “ Lack of specificity in method
- “ Scientifically compromising

DHHS / FDA GUIDELINE (1988)

Guideline for the Format and Content of the Clinical and Statistical Sections of an Application

vs.

FDA PRO GUIDELINE (2009)

DHHS / FDA GUIDELINE (1988)

Modifications of existing or new instruments

1. For language translations and cultural adaptation processes, include:
 - a. Description of the expertise of the translators
 - b. Description of procedures used (forward, back, reconciliation, harmonization, assessment of measurement properties)
 - c. Description of patient testing
 - d. Results of translation / adaptation including clear description of all translation issues and how they were resolved
2. For content, wording, format, or mode of administration changes, describe results from studies conducted to evaluate modification, or rationale for not conducting studies.
3. For use in a new indication or new population, document instrument development and assessment of measurement properties as described above.

FDA PRO GUIDELINE

VIII. Language Translation and Cultural Adaptation

- A. Process used to translate and culturally adapt the instrument for populations that will use them in the trial.
- B. Description of patient testing, language- or culture-specific concerns, and rationale for decisions made to create new versions.
- C. Copies of translated or adapted versions.
- D. Evidence that content validity and other measurement properties are comparable between the original and new instruments.

USE THE SPOKE WHEEL !

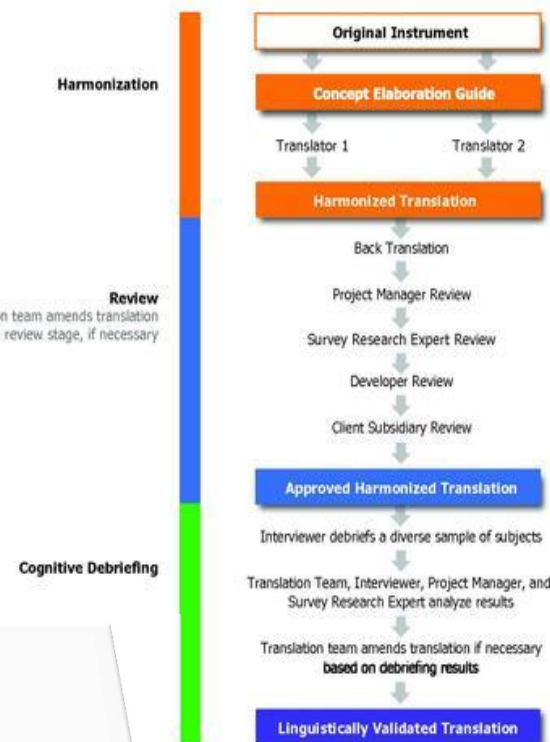
PRO GUIDANCE

LINGUISTIC VALIDATION METHODOLOGY

Where is it??

It's not in the PRO Guidance;
or in the DDT Guidance,
or in the 1988 Content/Format
Guidance....

THE ~~WILD~~ PAPER+from ISPOR



PRO GUIDANCE

IMPACT

Has it made a difference?

- Admirable intent with recommendations based on sound scientific principles.*
- Inconsistent implementation of guidance within SEALD and across other FDA reviewing divisions
- Some FDA reviewing divisions appear to prefer claims based on specific PROs (usually primary endpoints)

YES, SOME, BUT...

Evidence suggests that since the release of the Draft PRO Guidance, many PRO claims continue to be approved by FDA reviewing divisions; however, the reviewing divisions are not always adhering to the current standards when assessing PRO data for a claim.+

Mordin, M., Clark, M., Siersma, C., Copley-Merriman, K., & Gnanasakthy, A. (2009). *Impact of the FDA draft guidance on Patient Reported Outcomes (PRO) label claims for approved drug products in the US: Has it made a difference?*, Value in Health, 12 (3):A29-A29.