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Feasibility and added value of patient involvement in the
development of core outcome set development
A case study from the field of rheumatology

Collaborators

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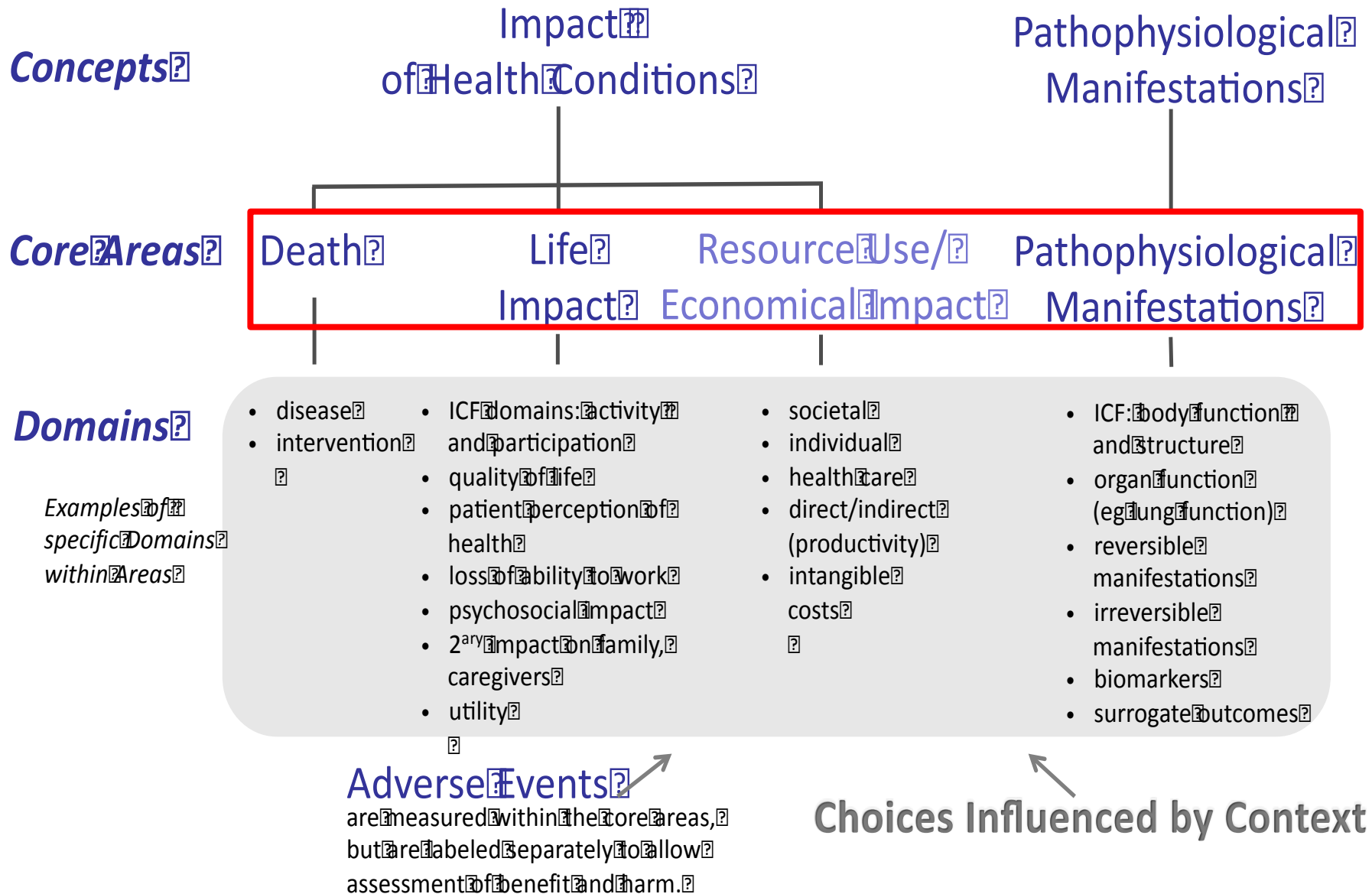
A-M Orbai

Overview



- ✔ Core domain set development according to the OMERACT filter 2.0
- ✔ Patient involvement throughout the process of updating the Psoriatic Arthritis core domain set
- ✔ Challenges of patient involvement in core set development
- ✔ Conclusions

OMERACT disease specific core domain sets



OMERACT Filter 2.0: Developing a Core Domain Set

Core Areas

Death Life Impact Resource Use Pathophysiological Manifestations

Setting/Contextual factors
Adverse events

Literature review
List of Domains & Instruments

Match Domains to Core Areas

Stakeholder input
All important stakeholders are included from the start: patients and their proxies, caregivers, researchers, etc.

Draft Core Domain Set

consensus

Core Domain Set

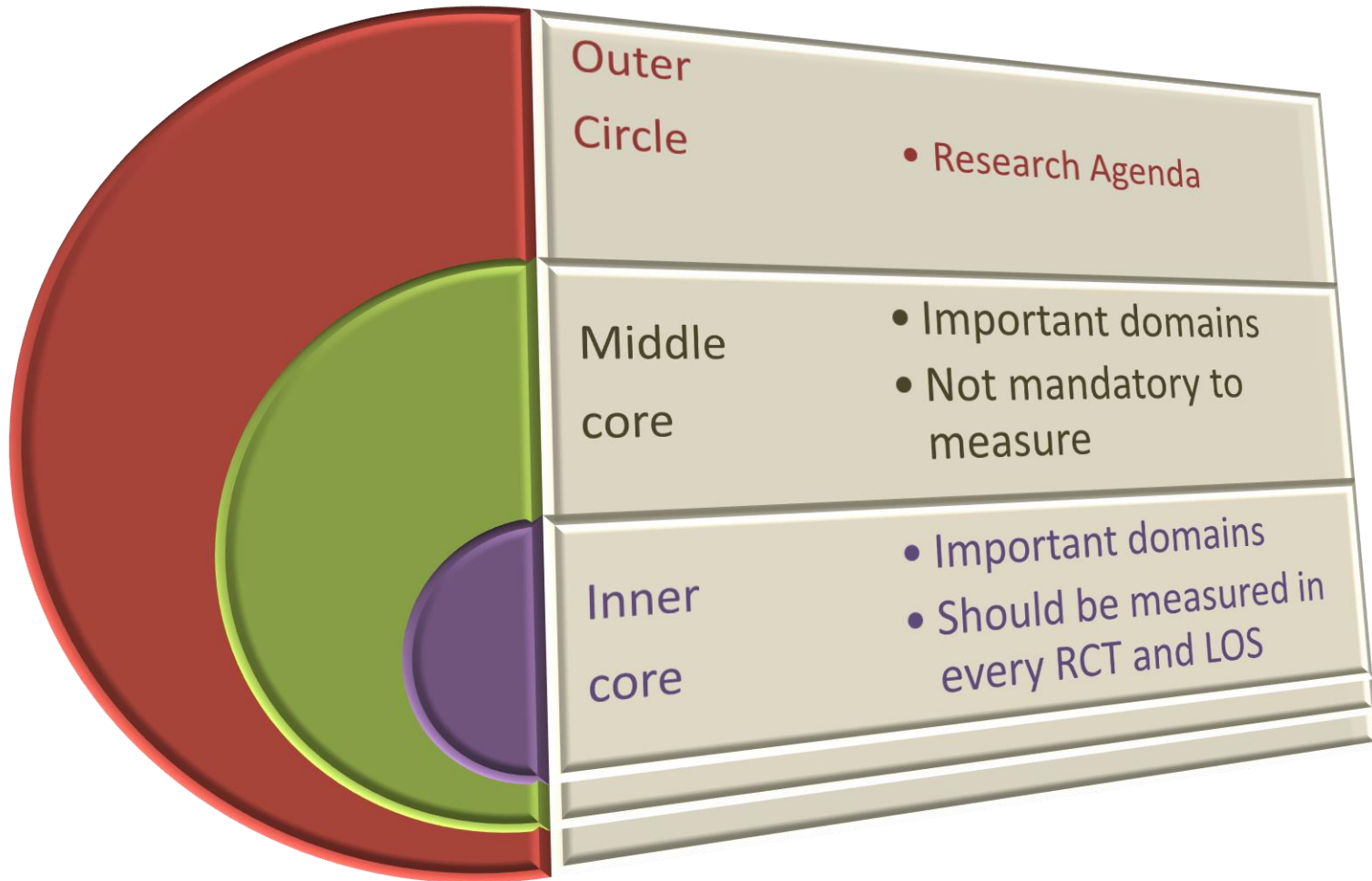
agreement on **what** to measure
at least one Domain from each Core Area

update cycle



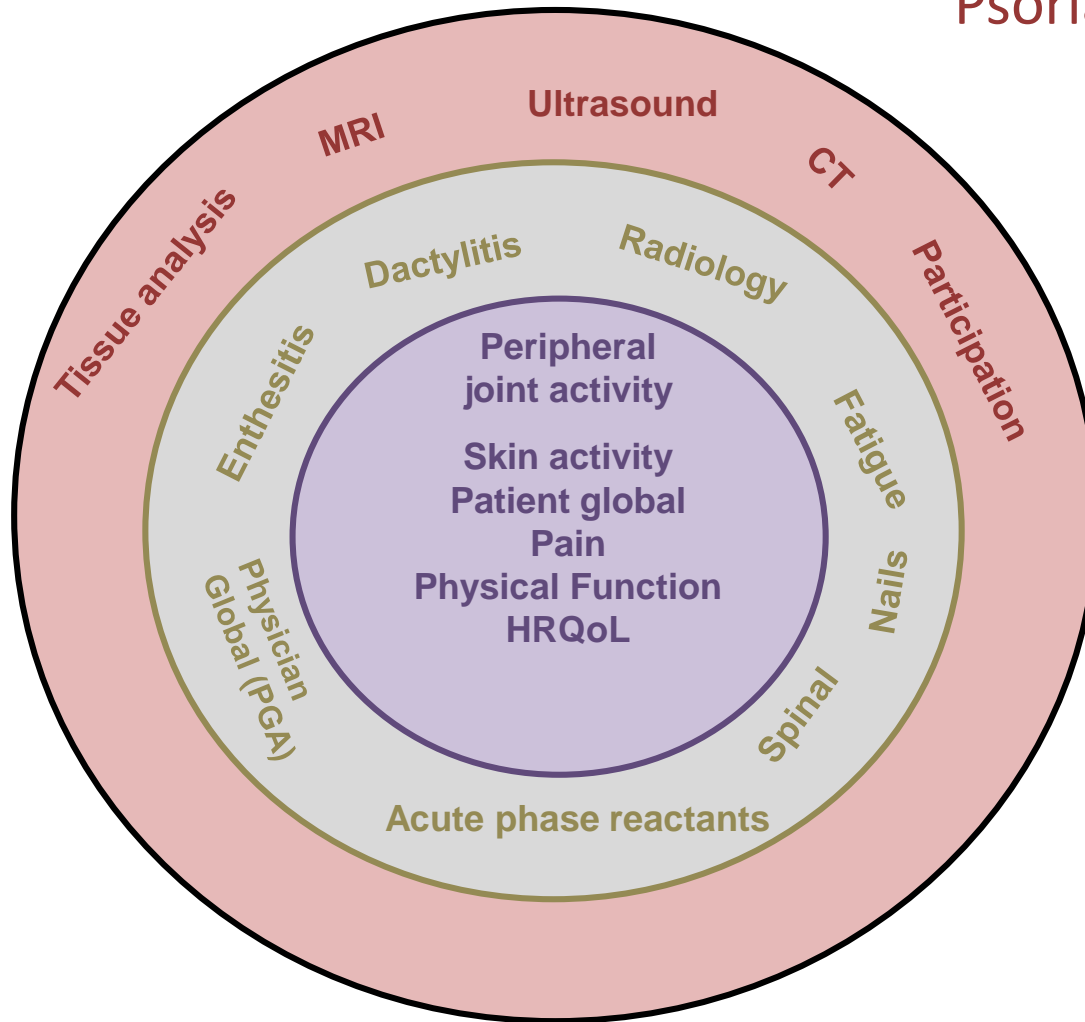
Source:
OMERACT Handbook
http://www.omeract.org/pdf/OMERACT_Handbook.pdf
Boers M, et al. J Clin Epidemiol. 2014; 67(7):745-53

Template of an OMERACT core domain set



2006

OMERACT-GRAPPA Psoriatic Arthritis core set

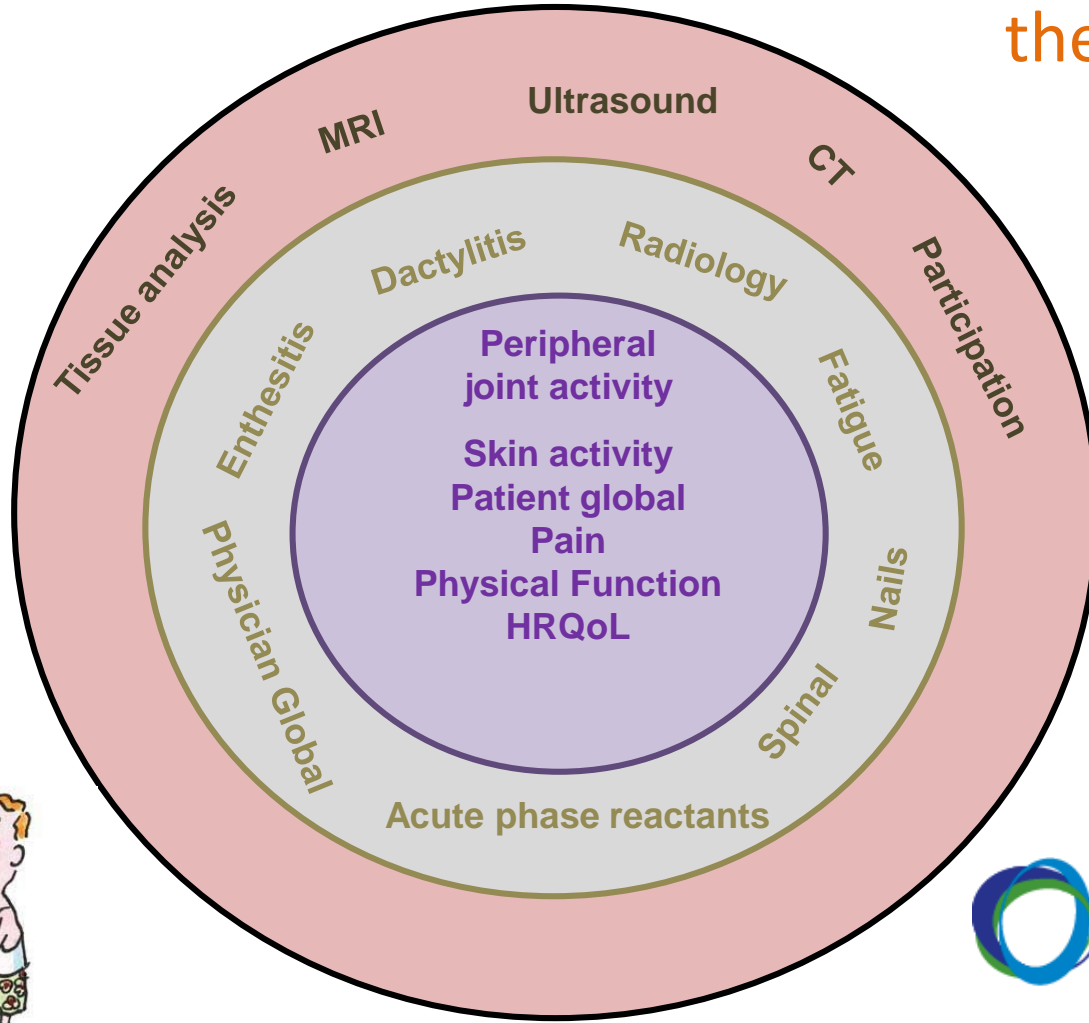


2006

2012

2013

Why updating the PsA COS?



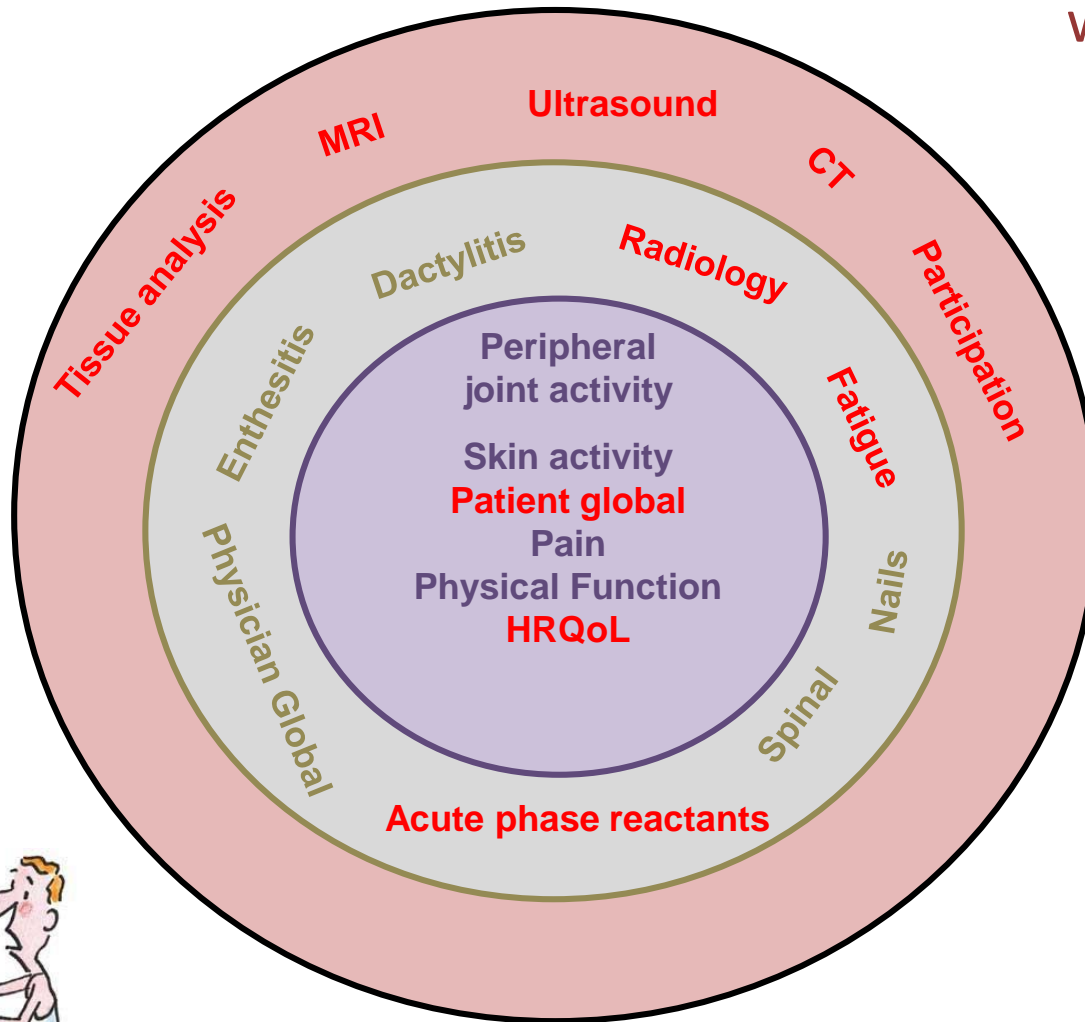
Tillett W, Adebajo A, Brooke M, et al. Patient involvement in outcome measures for psoriatic arthritis. *Curr Rheumatol Rep* 2014;16(5):418.

2006

2012

2013

Core set discussed with patients



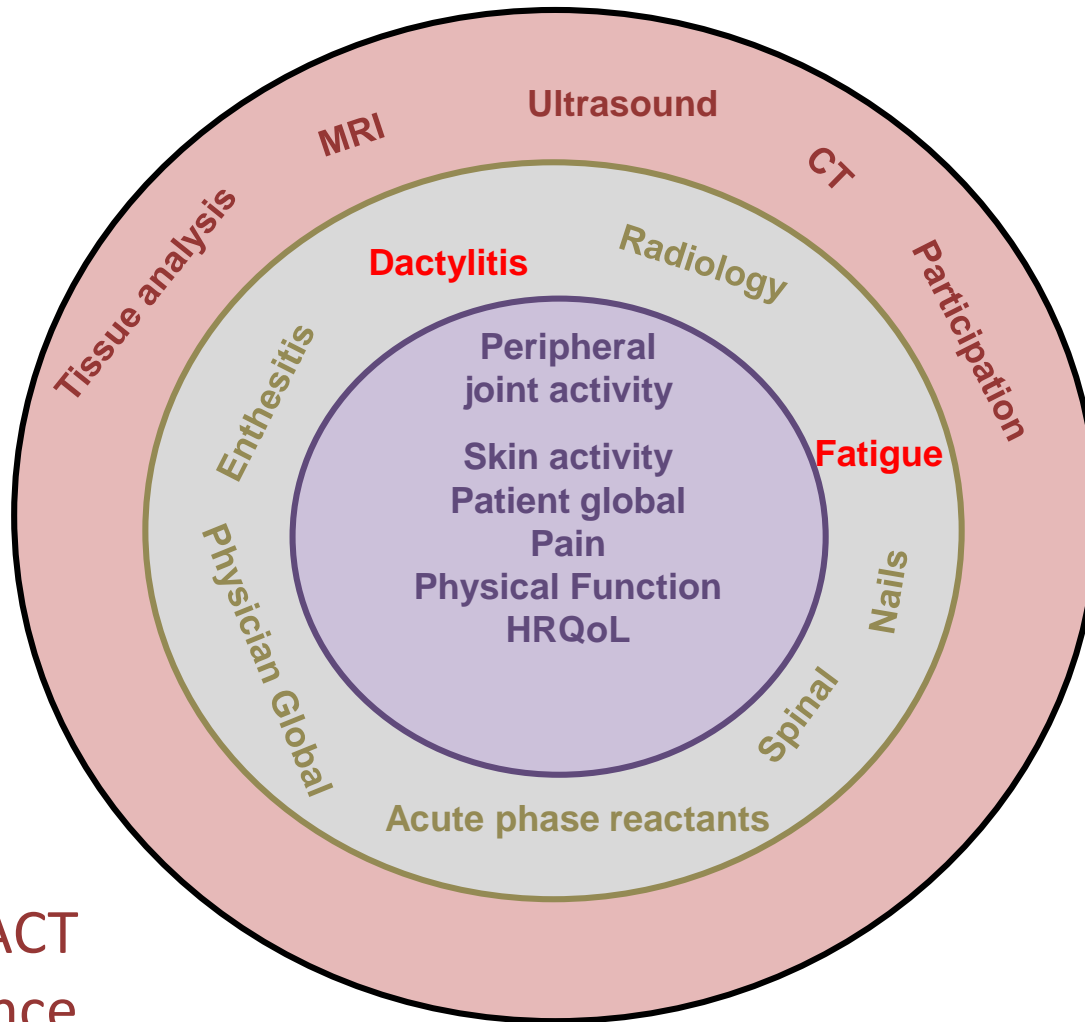
Tillett W, Adebajo A, Brooke M, et al. Patient involvement in outcome measures for psoriatic arthritis. *Curr Rheumatol Rep* 2014;16(5):418.

2006

2012

2013

2014



Need to update the PsA core set with active patient involvement

OMERACT
conference
2014

Tillett W, Eder L. Enhanced patient involvement and the need to revise the core set- report from the PsA workshop at OMERACT 2014. *Jrn of Rheum*, 2015

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Methods of involvement

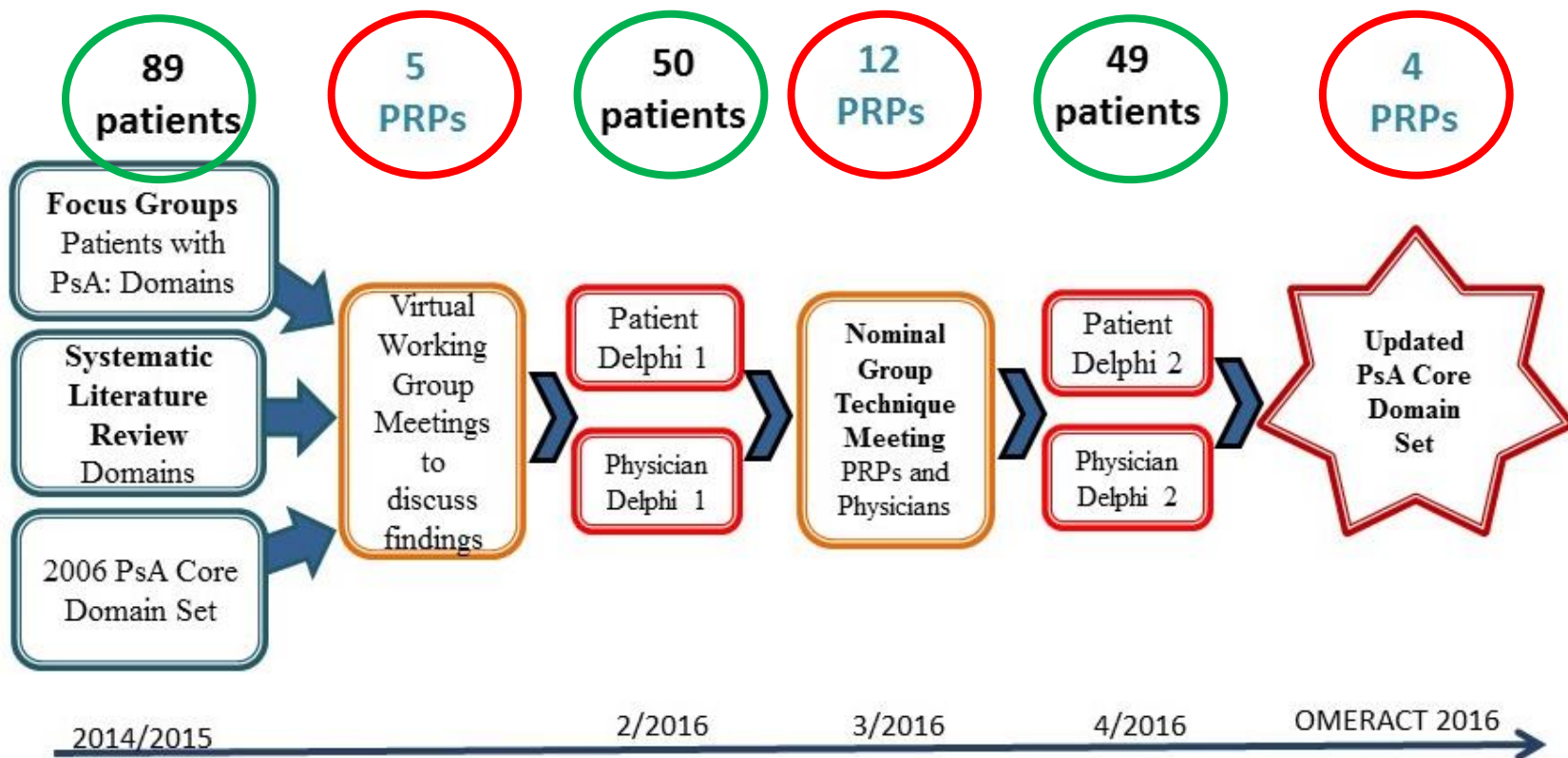
Patient participation – following OMERACT recommendations*

The patient voice was sought through

1. Active partnership of five patient research partners (PRPs) in the working group and one PRP in the Steering Group
2. International focus group study representing five continents and including seven countries
3. Delphi study
4. Consensus meeting

- Cheung PP ea Recommendations for the Involvement of Patient Research Partners (PRP) in OMERACT Working Groups. *The Journal of rheumatology* 2016;43(1):187-93)
- De Wit M ea, Successful Stepwise Development of Patient Research Partnership: 14 Years' Experience of Actions and Consequences in OMERACT, *The Patient* 2016,

Trying to ensure representativeness



Work streams Update core outcome set for Psoriatic Arthritis

What about PRPs Tasks?

	Steering group	Working group	Study design	SLR	FG protocol	FG moderation analysis	Delphi Design	NGT meeting
PRP 1		X	X	X	X	X	X	X
PRP 2		X	X		X		X	X
PRP 3		X	X	X	X		X	X
PRP 4	X	X	X	X	X	X	X	X
PRP 5					X			
PRP 6					X			
PRP 7					X	X	X	X
PRP 8								
PRP 9								
PRP 10								
PRP 11		X	X	X	X			
PRP 12								
PRP 13						X		
PRP 14					X			
TOTAL	1	5	5	4	9	4	5	5

What about PRPs' recognition?

Co-authorship

	Steering group	Working group	Study design	SLR 1	FG protocol	FG moderation analysis	Delphi Design	NGT meeting
PRP 1		X	X	X	X	X	X	X
PRP 2		X	X		X		X	X
PRP 3		X	X	X	X		X	X
PRP 4	X	X	X	X	X	X	X	X
PRP 5					X			
PRP 6					X			
PRP 7					X	X	X	X
PRP 8								
PRP 9								
PRP 10								
PRP 11		X	X	X	X			
PRP 12								
PRP 13						X		
PRP 14					X			
TOTAL	1	5	5	4	9	4	5	5

Extended PRP involvement

	Steering group	Working group	Study design	SLR 1	FG protocol	FG moderation analysis	Delphi	NGT meeting
PRP 1		X	X	X	X	X	X	X
PRP 2		X	X		X		X	X
PRP 3		X	X	X	X		X	X
PRP 4	X	X	X	X	X	X	X	X
PRP 5					X		X	X
PRP 6					X		X	X
PRP 7					X	X	X	X
PRP 8							X	X
PRP 9							X	X
PRP 10							X	X
PRP 11		X	X	X	X		X	X
PRP 12							X	X
PRP 13						X		
PRP 14					X		X	
TOTAL	1	5	5	4	4	4	13	12

New domains identified through SLR and the qualitative studies

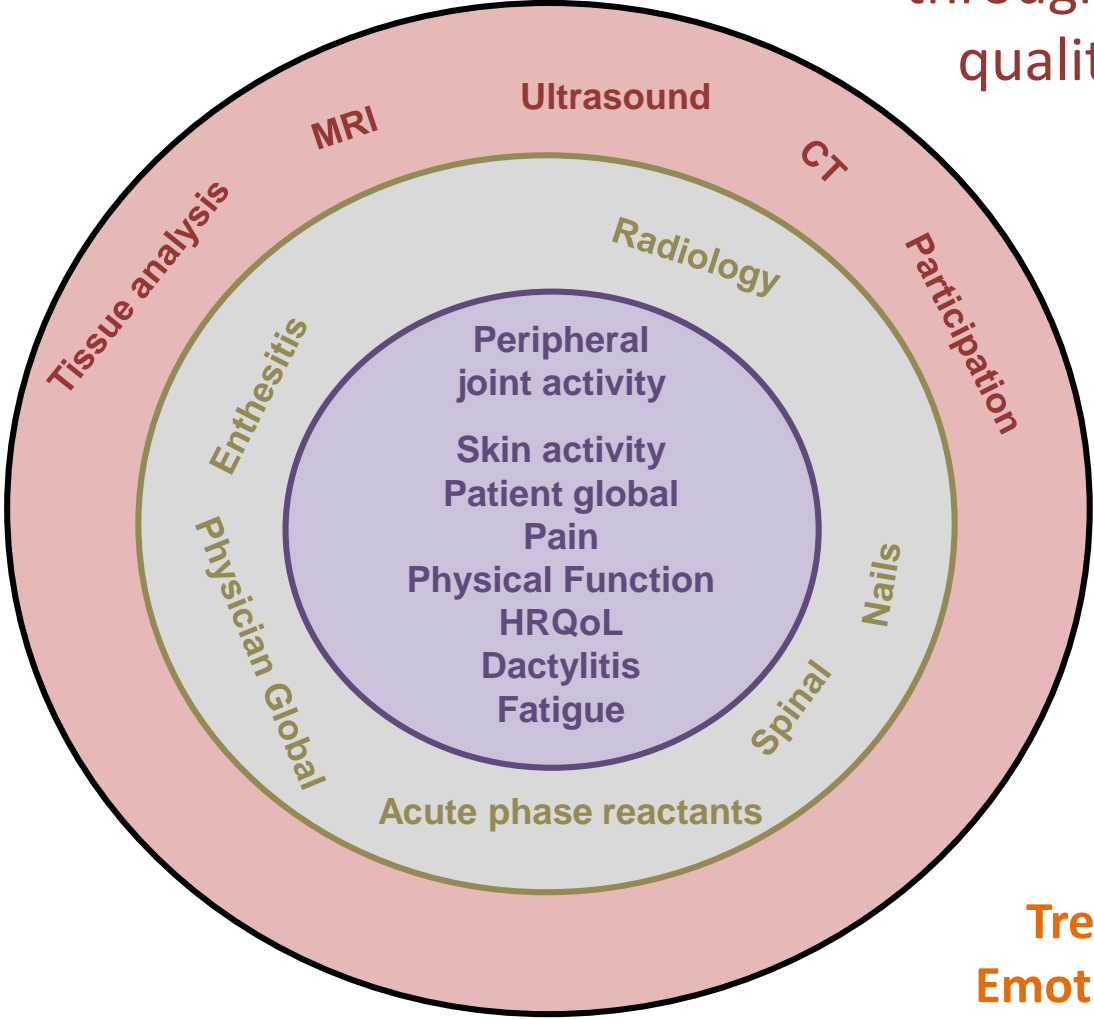
2006

2012

2013

2014

2015



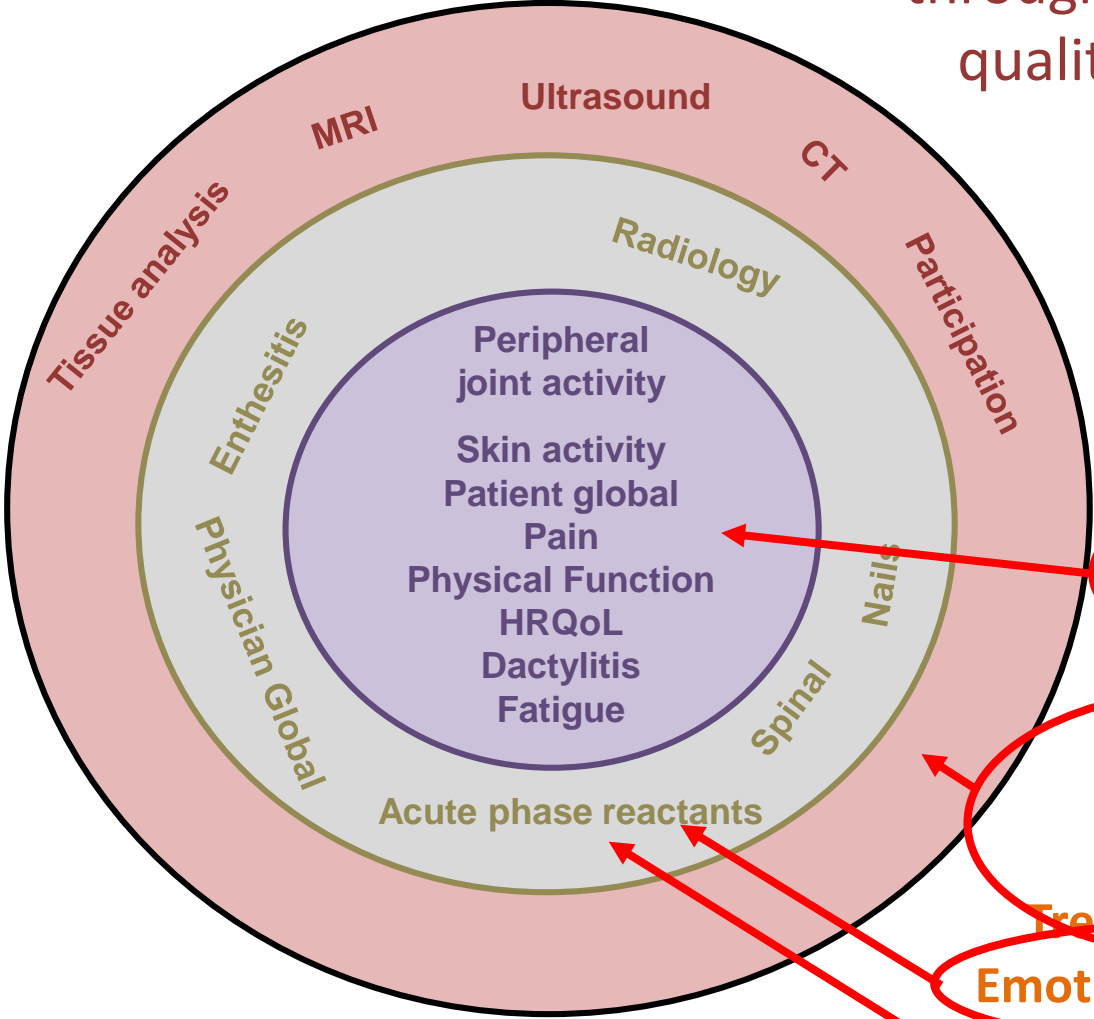
Systemic inflammation

Independence
Stiffness
Sleep
Treatment burden
Emotional wellbeing

Economic costs

New domains identified through SLR and the qualitative studies

- 2006
- 2012
- 2013
- 2014
- 2015
- 2016



Systemic inflammation

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What were challenges of involving patients in the COS update process?

1. Unanticipated Work Load for PRPs and researchers
2. Communication and equal collaboration

How to enhance new approaches and attitudes

3. Ensuring broad representativeness of patients' perspectives

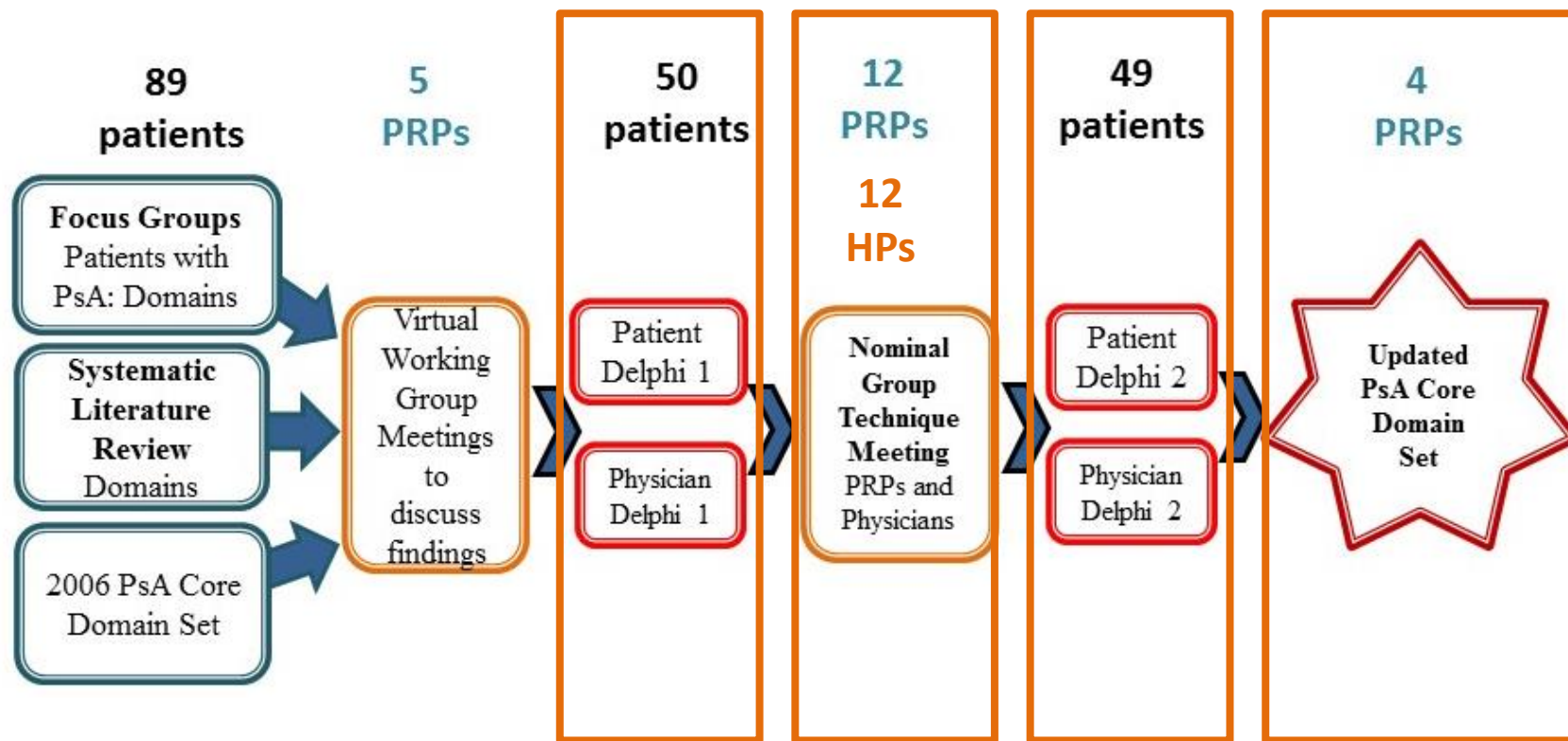
In demography, geography, disease severity and in numbers

4. Keeping PRPs and researchers motivated to collaborate
5. Preserving the patient perspective throughout the research process

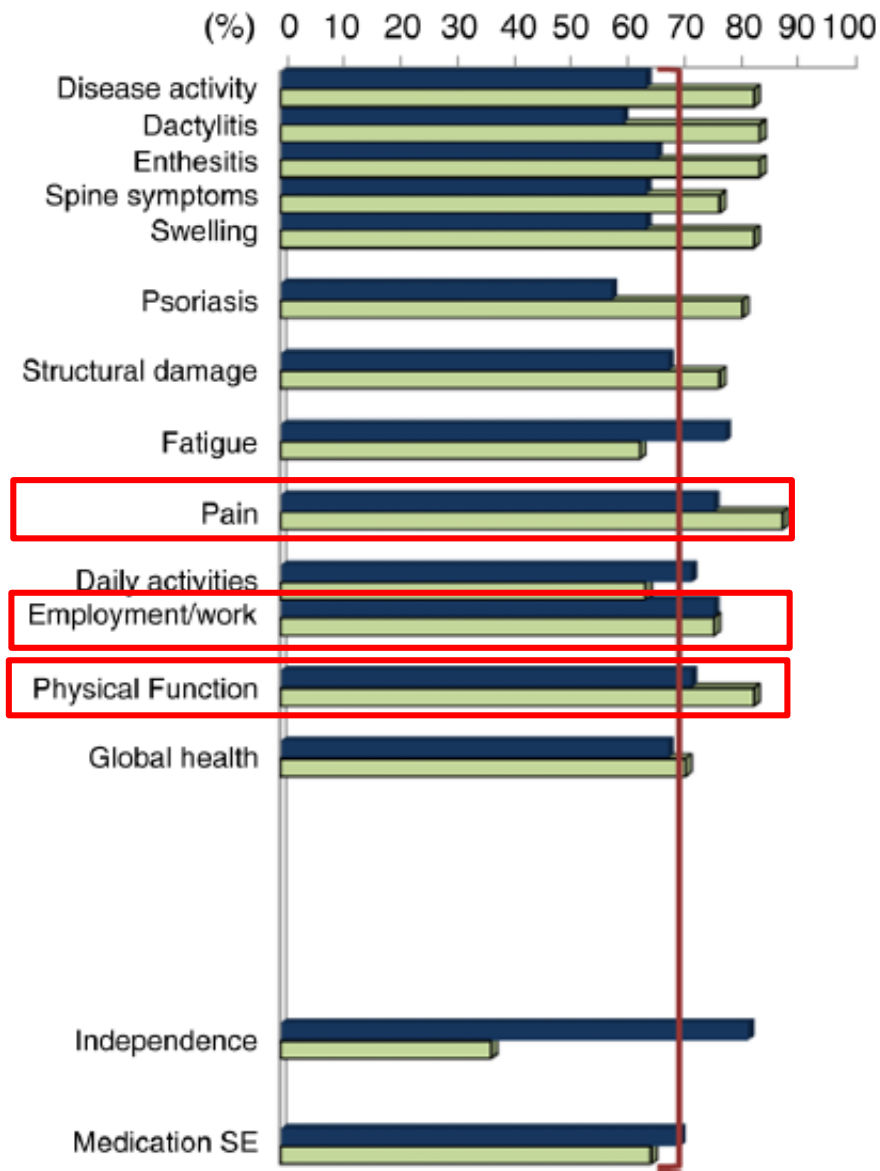
Preserving the patients' perspectives

- Core domain sets should be short and feasible to measure, and based on stakeholder input and consensus.
- But how can we guarantee that consensus is obtained without losing important domains for patients and hence content validity of the core set?

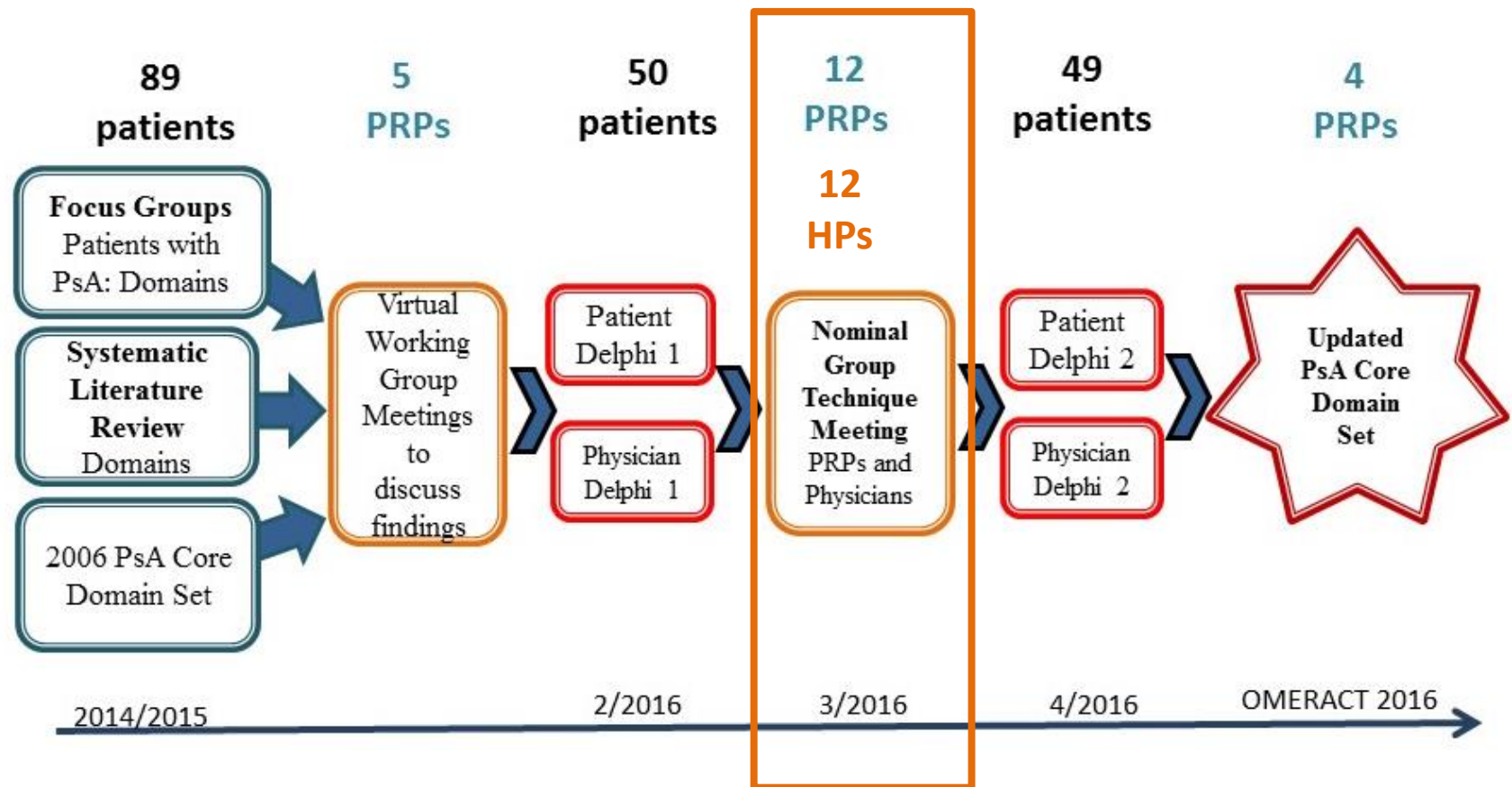
PRP participation as integral part of the consensus building



First patient and physician survey



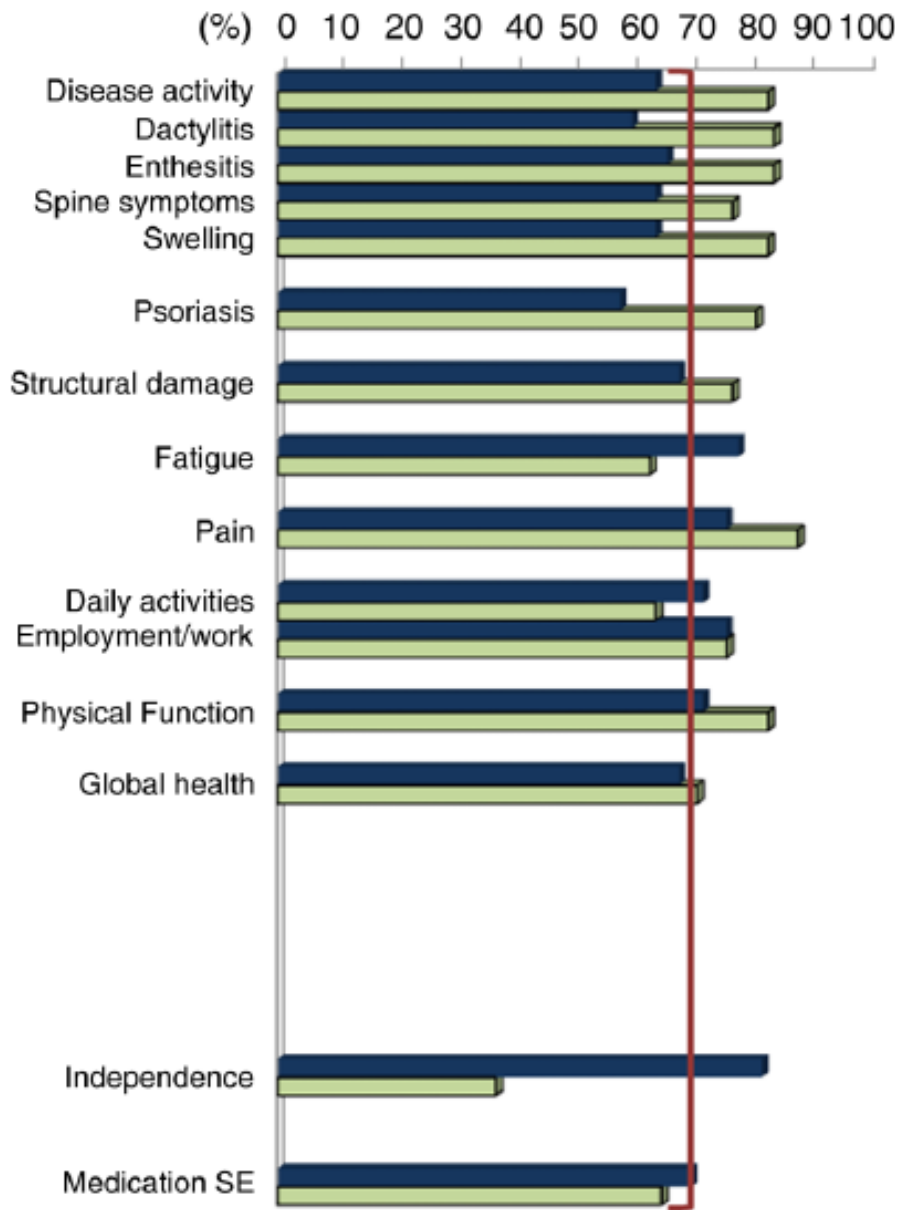
Orbai AM ea, International patient and physician consensus on a psoriatic arthritis core outcome set for clinical trials. *Annals of the rheumatic diseases* 2016.



- Full day consensus meeting
- Equal representation
- Independent facilitator
- Open dialogue

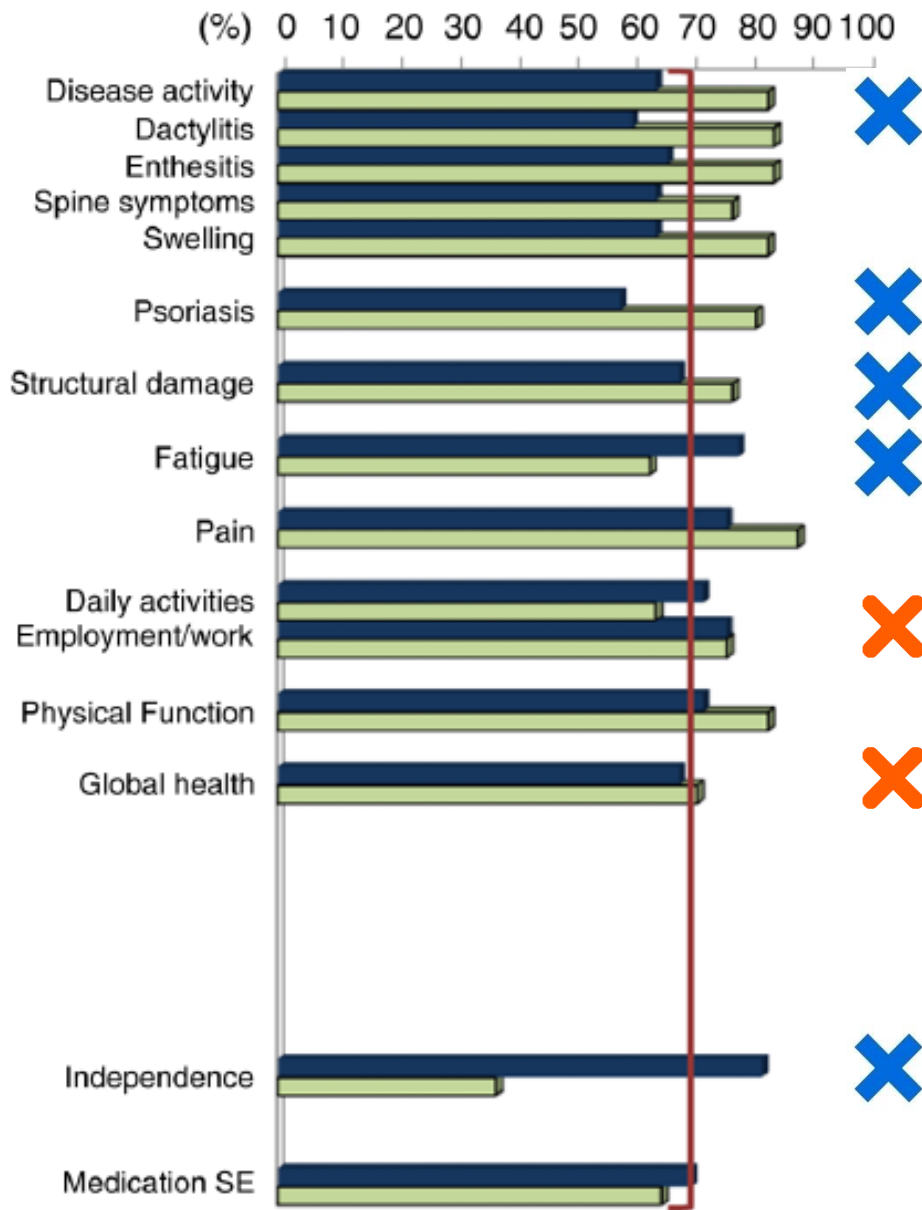
} Preliminary consensus on the updated PsA core domain set

First patient and physician survey

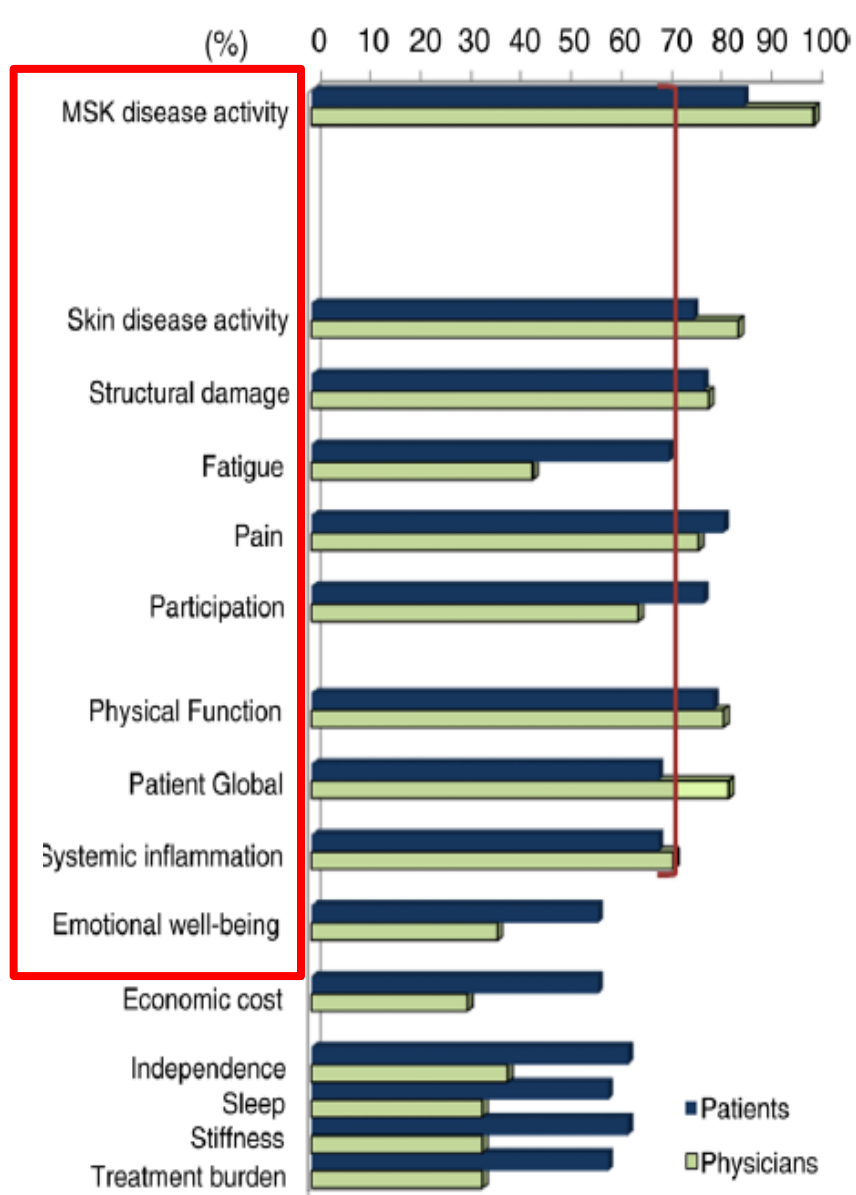


- MSK disease activity
- Skin disease activity
- Structural damage
- Fatigue
- Pain
- Participation
- Physical Function
- Patient Global
- Systemic inflammation
- Emotional well-being
- Economic cost
- Independence
- Sleep
- Stiffness
- Treatment burden

First patient and physician survey



Second patient and physician survey



What has been the impact of patient and PRP involvement?

- PRP involvement in coding focus group transcripts ensured domains important to patients were captured.
- PRP involvement in developing the domain Delphi list ensured that domain descriptions were phrased in a manner understandable to patients.
- Integration of the patient perspective in a meaningful and representative manner provided face validity to the COS
- PRP involvement in the consensus process resulted in new domains on the research agenda and in the middle core. No patient relevant domains were added to the inner core.

How can this be explained?

Potential factors to look at....

- Risk of patient representatives aligning with physicians views and priorities?
- Influence of existing power imbalances?
- Influence of clinical relationships?
- Lack of proportional representation in numbers?

Conclusion

- PRP involvement is needed to ensure face validity of a core domain set.
- Attributes for an effective consensus meeting are:
 - Equal numbers of patients and other stakeholders
 - An independent facilitator
 - Open dialogue
 - Inclusion of opinions of all participants via consensus techniques (Nominal Group Technique).
- More research is needed to explore strategies to preserve the patients' perspectives in the consensus building process and final core domain set.

2006

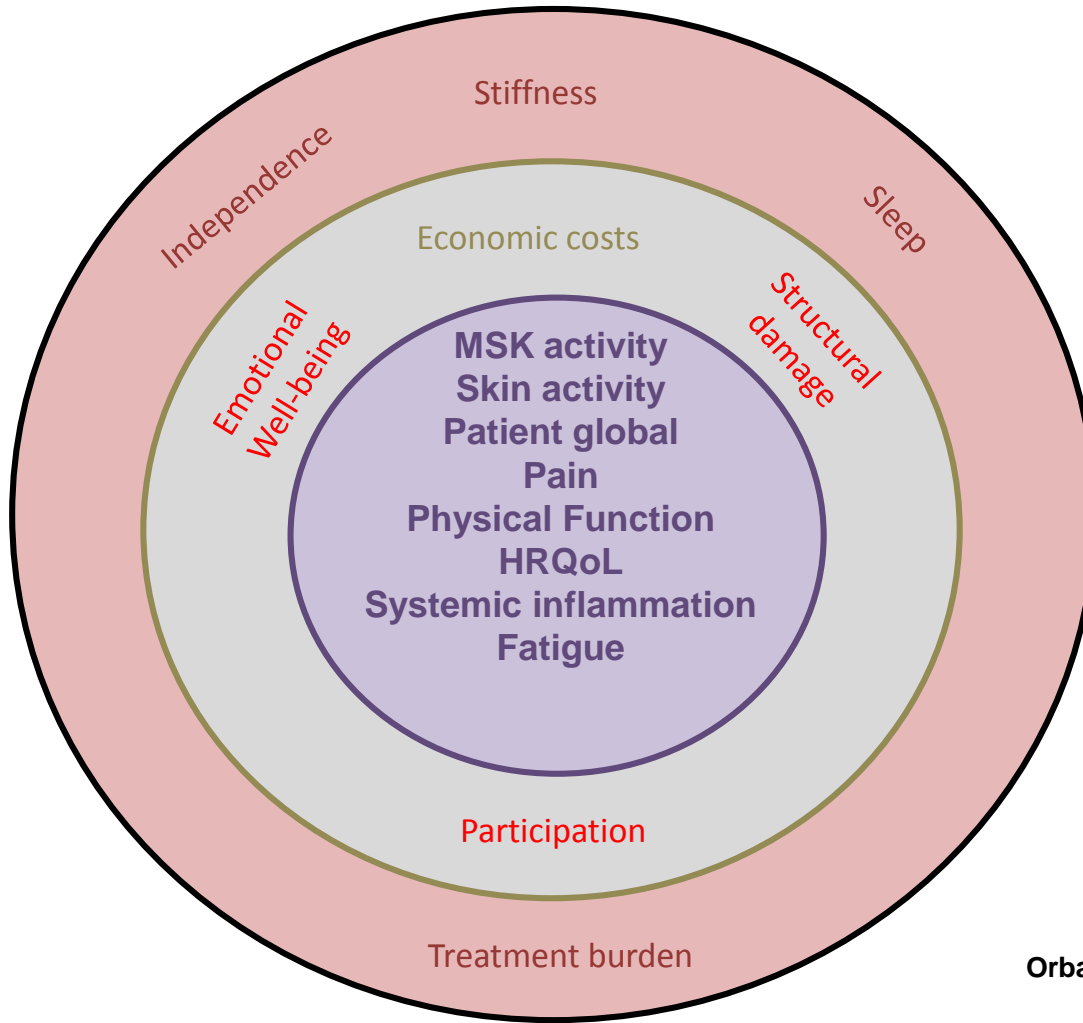
2012

2013

2014

2015

2016



OMERACT meeting
2016

Orbai, A. et al. *Annals of Rheum Diseases* 2016



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