



PCP 2011
19th International Congress
Boston, MA: July 19th-22nd

WHAT CHANGES IN THE PERSONAL CONSTRUCT SYSTEM DURING PSYCHOTHERAPY?

A NATURALISTIC STUDY OF BRIEF ORIENTED CONSTRUCT THERAPY

Olga Pucurull, Guillem Feixas, María del Carmen Aguilera, María Jesús Carrera



MULTI-CENTER DILEMMA PROJECT

RANDOMIZED CONTROL TRIALS: PROBLEMS

- ✘ It does not reproduce the real context of therapy.
- ✘ Selective sample, patients are not representative.
- ✘ Model of fixed duration.
- ✘ Ethical dilemmas: patients in a control group (or waiting list), manualized treatments
- ✘ Lack of external validity.
- ✘ Poor success in predicting outcome at the level of the individual case.
- ✘ Only a 11% of the studies are of good quality (*Mackay & cols., 2003*).
- ✘ Lack of evidence concerning many therapies.

THE EMPIRICALLY SUPPORTED TREATMENT APPROACH (EFFICACY RESEARCH)

- ✘ The evidence derived from efficacy trials is a **necessary and sufficient condition** to support policy and practice in the context of clinical routine?
- ✘ Recommendations of the guidelines are forced to rely on **consensus** when there is no available research evidence.
- ✘ **STATIC LISTS OF EMPIRICALLY SUPPORTED TREATMENTS. DANGER:** false warranty of efficacy to external entities / pressure to apply treatments.

PRACTICE BASED EVIDENCE: “EFFECTIVENESS RESEARCH”

- × Naturalistic studies
- × Starts with practitioners and builds ‘upwards’
- × Higher sample sizes
- × High generalisability
- × Used within services to feed back results to the service, clinicians and clients.
- × Practice Research Networks (PRNs).



Looking for a greater synergy between research & practice to increase the robustness of the evidence.

DISADVANTAGES OF PRACTICE BASED EVIDENCE

- ✘ Greater threats to internal validity.
- ✘ Requires, and has benefited from, commitment from all therapists and administrative staff.

AIMS

- ✘ To assess changes in patients' construct systems and their relation with symptom improvement after cognitive-constructivist brief therapy in a primary care service.
- ✘ To assess the effectiveness of this therapy model in reducing symptomatic measures.

CONTEXT

- ✘ Psychotherapy provided in the Catalan public health system (primary care).
- ✘ Therapists: second and third-year students of the Master in Cognitive Social Therapy.
- ✘ Brief therapy format: a maximum of 16 one-hour sessions
- ✘ Training and supervision from a constructivist approach:
 - + Personal construct therapy
 - + Systemic therapy
 - + Constructivist developmental approach: adult moral development approach, analysis of the type of complain, discourse analysis (a common epistemological base)

MATERIALS: ROUTINE EVALUATION

- ✘ Beck Depression Inventory (*BDI or BDI-II*) (*Sanz, J., Perdigón, AL., Vázquez, C., 2003*)
- ✘ Symptom Checklist-90-Revised (*SCL-90-R*)
- ✘ Global Assessment of Functioning Scale (*GAF*)
- ✘ Repertory Grid Technique

THE REPERTORY GRID TECHNIQUE ADMINISTRATION (I)

CONSTRUCTS		ELEMENTS												
		Self now	Mother	Father	Brother	Boy friend	Friend 1	Friend 2	Non-rata	Friend 3	Cousin	Godmother	Friend 4	Ideal Self
1. <i>Pessimistic</i>	1. <i>Optimistic</i>	1	1	5	2	7	3	6	2	6	4	3	2	7
2. <i>Self-demanding</i>	2. <i>Takes it easy</i>	1	6	6	2	2	5	6	3	5	6	4	3	4
3. <i>Fearful</i>	3. <i>Enterprising</i>	7	2	6	2	4	5	6	5	2	3	4	5	5
4. <i>Lives to work</i>	4. <i>Works to live</i>	5	1	2	2	6	6	6	1	6	7	6	6	7
5. <i>Imposes his/her wishes</i>	5. <i>Tolerant with others</i>	6	2	1	1	4	3	6	1	7	3	4	2	7
6. <i>Teasing</i>	6. <i>Touchy</i>	2	7	1	6	4	3	4	6	3	3	5	6	3
7. <i>Appreciates others</i>	7. <i>Does not appreciate others</i>	2	6	6	6	1	5	4	7	4	2	2	5	1
8. <i>Aggressive</i>	8. <i>Calm</i>	6	4	2	2	7	4	6	2	6	6	6	3	7
9. <i>Concerned about others</i>	9. <i>Selfish</i>	2	2	6	7	2	3	5	7	3	3	2	2	2
10. <i>Avaricious</i>	10. <i>Generous</i>	6	1	1	1	7	5	5	1	6	3	3	6	7
11. <i>Sensitive</i>	11. <i>Materialistic, superficial</i>	1	5	7	7	1	4	5	7	1	4	3	4	1
12. <i>Cheeky</i>	12. <i>Respectful</i>	6	6	5	4	6	6	6	1	6	5	6	5	7
13. <i>Hypocritical</i>	13. <i>Sincere</i>	5	4	4	2	6	5	5	1	6	6	5	4	7
14. <i>Blackmailer</i>	14. <i>Non blackmailer</i>	3	2	2	1	5	6	6	1	6	6	6	3	7
15. <i>Appears stronger than is</i>	15. <i>Natural</i>	6	3	1	2	5	2	4	2	7	6	6	5	6
16. <i>Does not look after the friendship</i>	16. <i>Looks after the friendship</i>	6	3	3	3	6	2	1	2	4	4	6	4	7
17. <i>Non Accessible</i>	17. <i>Accessible</i>	5	2	2	1	4	2	4	1	6	3	5	2	7
18. <i>Introverted</i>	18. <i>Extroverted</i>	1	2	6	2	4	5	7	5	2	6	6	5	5
19. <i>Gets depressed easily</i>	19. <i>Does not get depressed easily</i>	1	2	6	3	6	3	7	6	1	3	3	3	6
20. <i>Tries to find the good in things</i>	20. <i>Sees only the negative</i>	6	6	4	6	1	5	2	7	6	3	3	5	1

1 very much so, 2 quite a lot, 3 a little, 4 middle point, 5 a little, 6 quite a lot, 7 very much so.

THE REPERTORY GRID TECHNIQUE MEASURES (II)

1. **Diferentiation:** It is computed using the **Percentage of Variance Accounted by the First Factor (PVAFF)** resulting from correspondence analysis (a factor analytic method).
2. **Self-Ideal Differentiation.** Product-moment correlation between elements «present self» and the «ideal self». High correlations associated to a high self-esteem (*Dada, 2008*).
3. **Presence/ absence of implicative dilemmas.**
4. **PID:** Reflects the number of implicative dilemmas in a grid, taking into account its size, a correction is applied for the PID.

$$PID = \frac{ID}{(n!/2[(n-2)!])} \times 100$$

ID: number of implicative dilemmas identified in a grid
n: number of constructs in a grid

5. **Polarization:** The percentage of extremity ratings ("1" and "7"). Indicative of cognitive rigidity and polarised construing. High degree of polarisation is linked to neurotic problems, severity of depressive symptoms

ELEMENTS

SIGNIFICANT PEOPLE IN THE PATIENT'S WORLD ARE SELECTED

- × SELF
- × MOTHER
- × FATHER
- × BROTHER
- × SISTER
- × PARTNER
- × PREVIOUS PARTNER
- × MALE FRIEND (two or three)
- × FEMALE FRIEND (two or three)
- × *PERSONA NON GRATA* ("someone whom you know but do not like")
- × SELF-BEFORE-THE-CRISIS
- × IDEAL-SELF

ELICITATION OF CONSTRUCTS USING DYADS OF ELEMENTS

More explicit contrast poles can be obtained using only two elements at a time.

- ✘ "Do you see these people as more similar or different?"
- ✘ "How are these two elements alike?"
- ✘ "What characteristics do these two elements share?"
- ✘ "What would be the opposite of this characteristic?"
- ✘ "How are these two elements different?"
- ✘ The explanation of these differences by the respondent often yields a pair of opposites, each relating to an element of the dyad.

DYADIC CONSTRUCT ELICITATION (CONT'D)

This procedure is repeated for dyads of elements selected following these criteria:

- ✘ Assure that each element appears at least once in the dyads presented.
- ✘ Always include the SELF element in conjunction with the MOTHER, FATHER, SPOUSE, *PERSONA NON GRATA* and sibling elements.

When a construct is repeated, it is listened to but not jotted down nor is the opposite requested.

SELF-CONGRUENCY AND SELF-DISCREPANCY IN THE RGT

To study the construction of the self, the RGT includes these two elements:

- + SELF NOW (How I see myself now?)
- + IDEAL SELF (How I would like to be?)

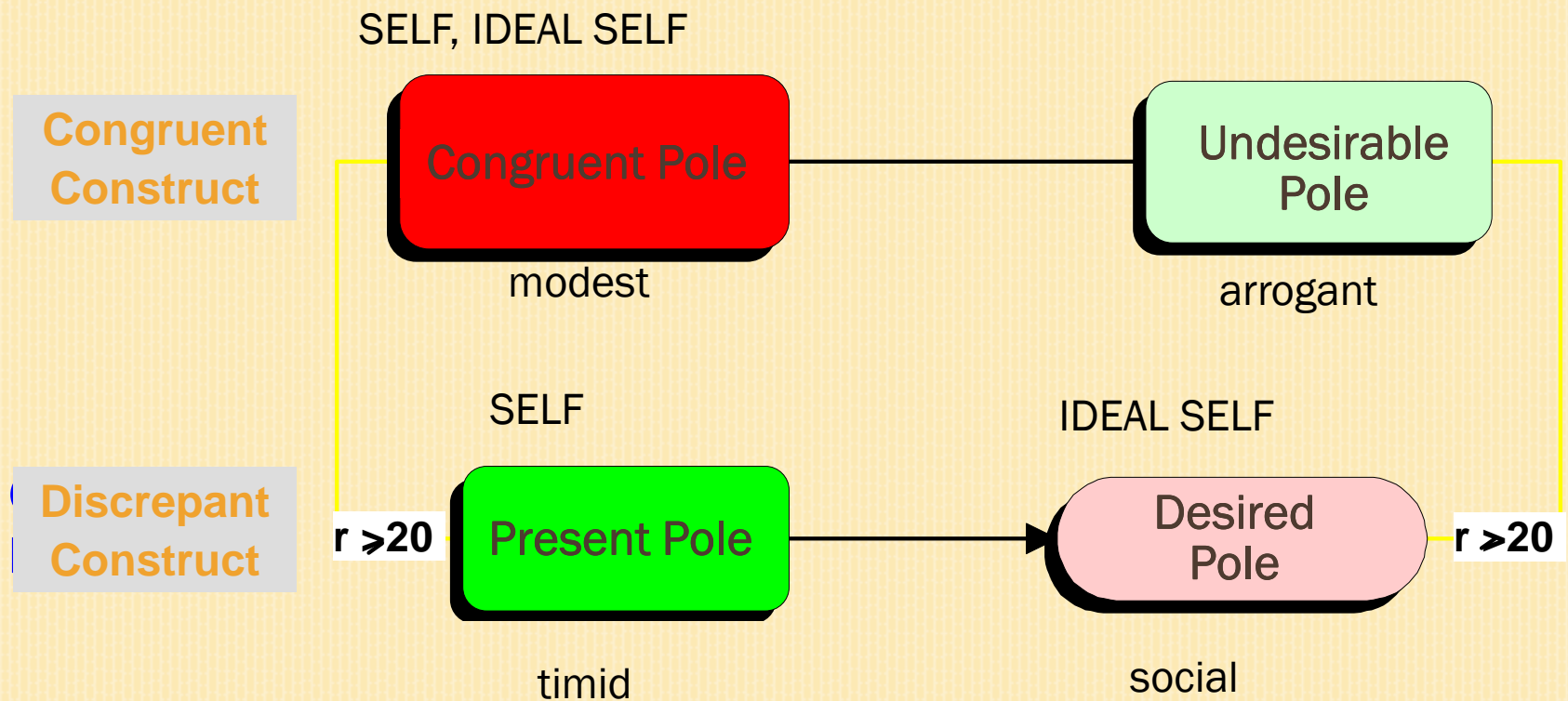
Constructs in which SN and IS are close are termed “congruent” and those in which they are set apart “discrepant”

DILEMMAS AS COGNITIVE CONFLICTS

- ✘ A type of cognitive structure
- ✘ Related to identity (core constructs), implicit or tacit, resistant to change
- ✘ A particular form of organization that links specific cognitive contents (e.g., “I wish to overcome my shyness”) to core values (e.g., “I am modest”) in a conflictive way (e.g., “If I become social I might also end up being arrogant” BUT “If I want to keep my modesty I have to remain timid”)

Feixas, G., Saúl, L. A. y Ávila-Espada, A. (2009). Viewing cognitive conflicts as dilemmas: implications for mental health. *Journal of Constructivist Psychology*, 22, 141-169.

IMPLICATIVE DILEMMA



DIFFERENTIATION

- ✘ Number of functionally independent dimensions available to the subject during the process of interpersonal construction.
- ✘ Currently measured in the grid as the Percentage of Variance Explained by the First Factor (PVEFF) resulting from factor analysis of the grid data matrix.

Choose a score to display

**GRIDCOR
2002**

Correspondence Analysis of Personal
Constructs, v. 4.0

Choose which score to display:

- 1.- Eigenvalues
- 2.- Coordinates and contributions
- 3.- Dual Diagrams
- 4.- Plotting of axes
- 5.- Distances
- 6.- Cognitive Scores
- 7.- Save to Disk

Close

Analysis: Eigenvalues

EIGENVALUES

Total population 2080

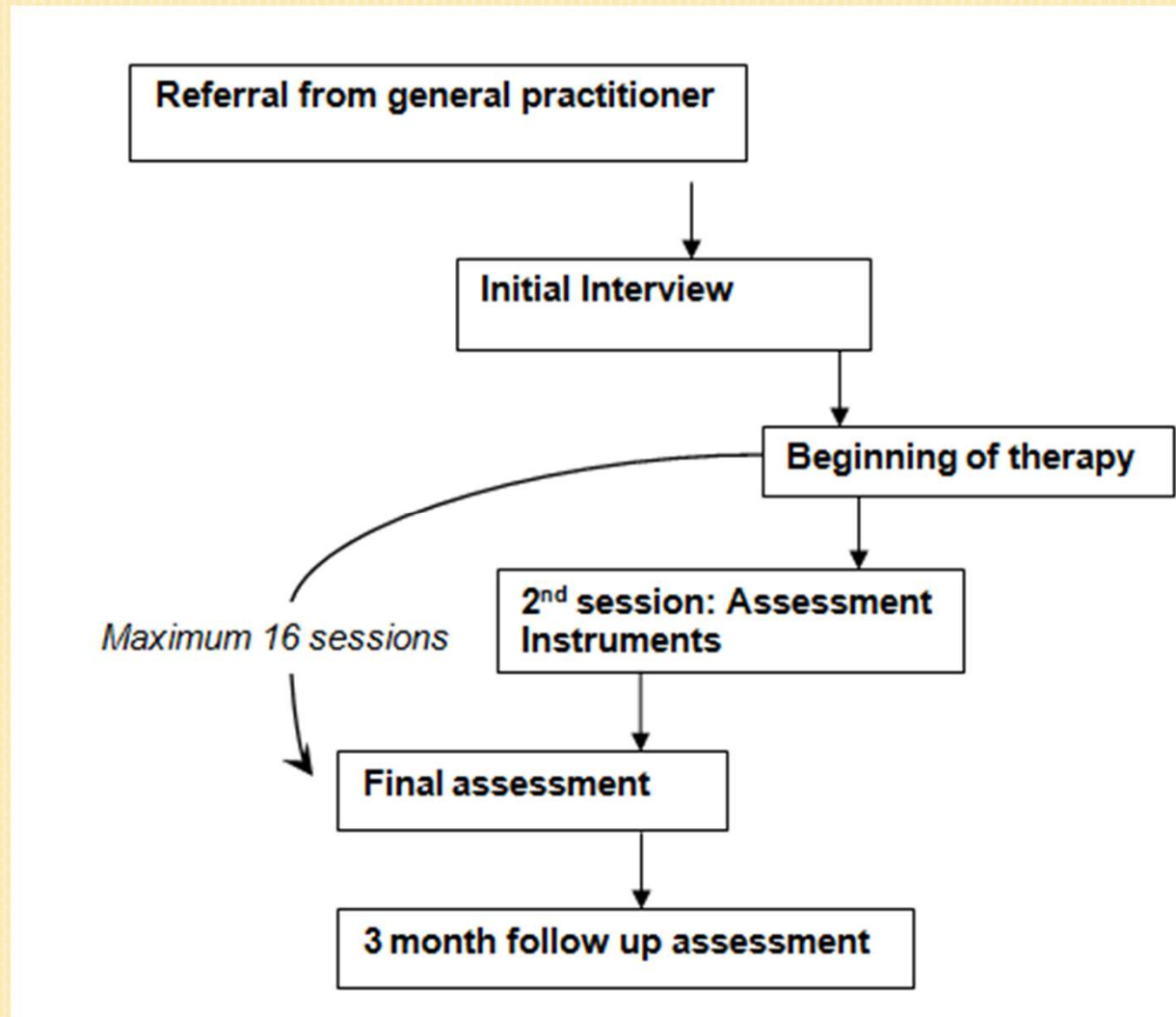
Trace 0,2347

AXE	Eigenvalue	PCT	CUM.PCT
1	0,13126	55,92	55,92
2	0,04267	18,18	74,10
3	0,01550	6,61	80,71
4	0,01169	4,98	85,69
5	0,00876	3,73	89,42

Close

Close

PROCEDURE: SERVICE MODEL



PROCEDURE: SERVICE MODEL

1. Referral from general practitioner

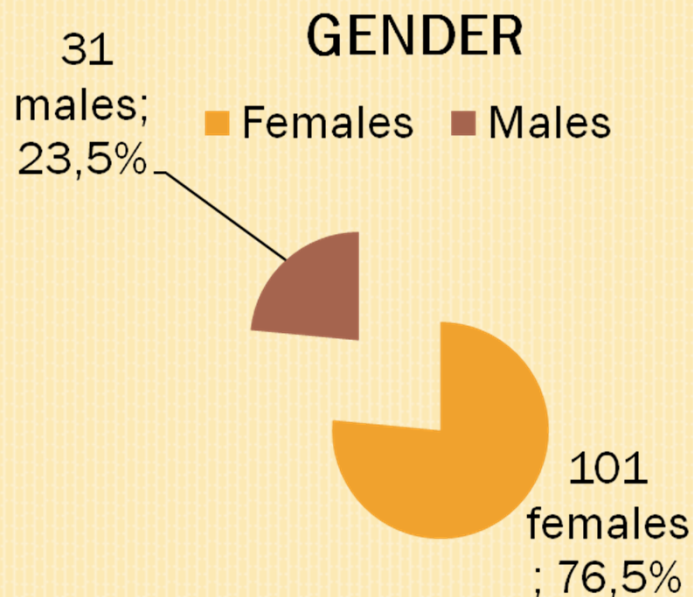
- + Diagnostic considerations,
- + medical conditions,
- + Risk and priority
- + Relevant comments about personal situation
- + Reason for referral

2. Initial Interview

- + Assessment of the appropriateness of psychotherapy (exclusion criteria)
- + Priority and reasons for requesting help.
- + Consultation causes
- + Previous therapies
- + Symptoms, emotions, motivation for therapy
- + Resources: cognitive, emotional, social network
- + Genogram

SAMPLE

- ✘ 132 patients diagnosed with non-severe mental disorders or adaptive problems.
- ✘ Exclusion criteria: Cluster A or B Personality disorders, drug abuse, psychotic symptoms, suicidal ideation.
- ✘ Period: 2002-2010.



- ✘ **Mean AGE:** 38,06 (SD 11,7)
range: 18-72

AXIS I. CLINICAL DISORDERS: PRINCIPAL DIAGNOSIS

	Frequency	Percent
Anxiety Disorders	42	31,8
Mood disorders	36	27,3
Adjustment Disorders	22	16,7
Somatoform Disorders	6	4,5
Other Conditions That May Be a Focus of Clinical Attention	5	3,8
Sleep Disorders	3	2,3
Eating disorders	2	1,5
Impulse-Control Disorders	1	,8
Without diagnosis in Axis I	15	11,4
Total	132	100,0

AXIS I. CLINICAL DISORDERS: SECONDARY DIAGNOSIS

	Frequency	Percent
Anxiety Disorders	5	3,8
Mood disorders	5	3,8
Adjustment Disorders	2	1,5
Other Conditions That May Be a Focus of Clinical Attention	2	1,5
Without secondary diagnosis in Axis I	118	88,6
Total	132	100,0

AXIS II. PERSONALITY DISORDERS. PRINCIPAL DIAGNOSIS

	Frequency	Percent
Borderline Personality Disorder	5	3,8
Obsessive-Compulsive Personality Disorder	4	3,0
Narcissistic Personality Disorder	3	2,3
Personality Disorder Not Otherwise Specified	2	1,5
Avoidant Personality Disorder	1	,8
Antisocial Personality Disorder	1	,8
Mental Retardation	1	,8
Without diagnosis in Axis II	115	87,1
Total	132	100,0

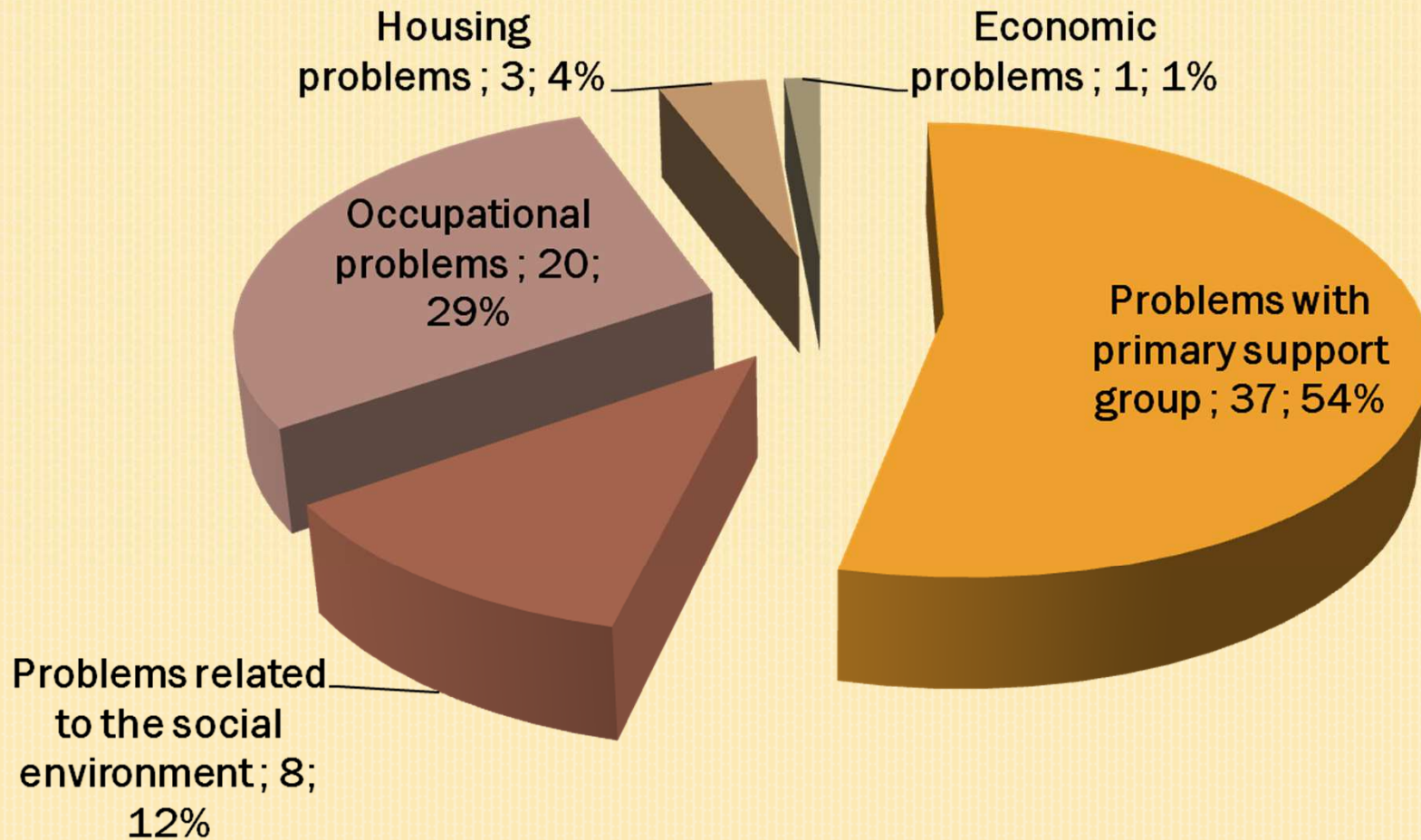
AXIS III: GENERAL MEDICAL CONDITIONS

- ✘ 22 patients have a medical condition on Axis 3 and two of them suffer from a secondary medical condition.

AXIS IV: PSYCHOSOCIAL AND ENVIRONMENTAL PROBLEMS

	Frequency	Percent
Problems with primary support group	37	28,0
Occupational problems	20	15,2
Problems related to the social environment	8	6,1
Housing problems	3	2,3
Economic problems	1	,8
Problems related to interaction with the legal system/crime	1	,8
Without diagnosis in Axis IV	62	47,0
Total	132	100,0

AXIS IV: PSYCHOSOCIAL AND ENVIRONMENTAL PROBLEMS



AXIS V: GLOBAL ASSESSMENT OF FUNCTIONING

✘ Global Assessment of Functioning Scale (GAF).

Mean: 62,21 (SD: 7,2) N = 75

range: 35-80

71-80 If symptoms are present, expectable reactions to psychosocial stressors

61-70 Some mild symptoms

51-60 Moderate symptoms

41-50 Severe symptoms

31-40 Some impairment in reality testing or communication

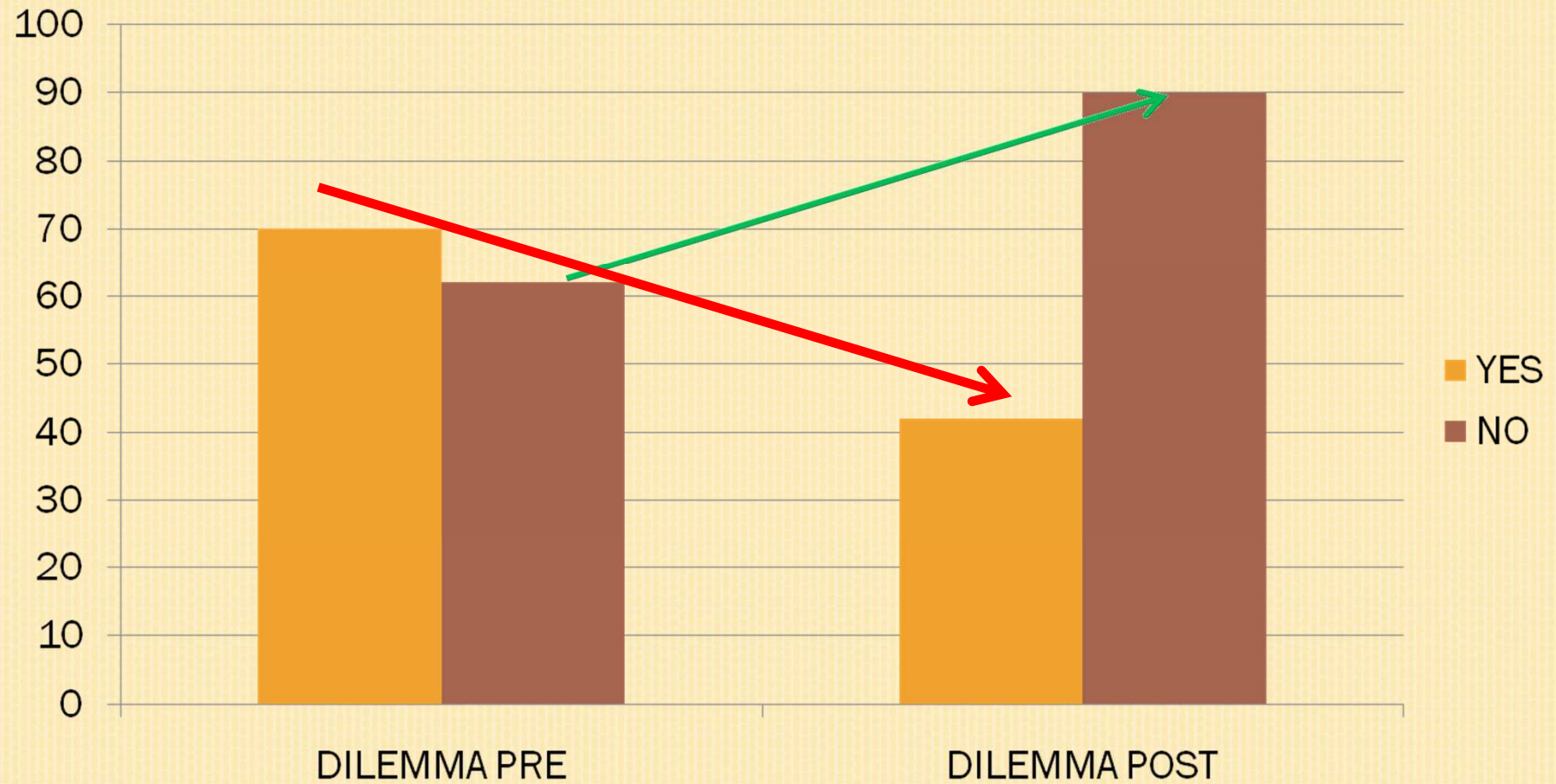


PRESENCE OF IMPLICATIVE DILEMMAS PRE AND POST THERAPY

			EXISTENCE OF DILEMMAS POST		Total
			NO	YES	
EXISTENCE OF DILEMMAS PRE	NO	Count	53	9	62
		% within Existence of dilemmas pre	85,5%	14,5%	100,0%
		% within Existence of dilemmas post	58,9%	21,4%	47,0%
		% of total	40,2%	6,8%	47,0%
	YES	Count	37	33	70
		% within Existence of dilemmas pre	52,9%	47,1%	100,0%
		% within Existence of dilemmas post	41,1%	78,6%	53,0%
		% of total	28%	25%	53%
Total	Count	90	42	132	
	% within Existence of dilemmas pre	68,2%	31,8%	100,0%	
	% within Existence of dilemmas post	100,0%	100,0%	100,0%	
	% of total	68,2%	31,8%	100,0%	

$$\chi^2 = 16,13 \text{ (df = 1; p = 0,0001)}$$

DECREASE OF DILEMMAS AFTER THERAPY



EFFECT SIZE

	Mean	N	SD	t	p	ES
BDI pre	21,40	132	10,91	8,973	0	0,88
BDI post	11,92	132	10,76			
SCL GSI pre	1,32	132	0,62	9,8	0	0,91
SCL GSI post	0,76	132	0,61			
PVEFF1 pre	42,77	132	10,58	-3,088	0,002	0,21
PVEFF1 post	45,10	132	11,15			
Self-idealDistance pre	0,33	130	0,21	5,151	0	0,48
Self-idealDistance post	0,24	130	0,17			
Polarization pre	27,21	132	14,53	5,165	0	0,32
Polarization post	22,74	132	14,05			
PID 0,35 pre	1,27	130	2,09	-2,915*	0,004*	0,26
PID 0,35 post	0,80	130	1,78			

* Test of Wilcoxon signed ranks

Effect size:
0,2: small
0,5: moderated
0,8: big

DISCUSSION

- ✘ Cognitive measures (RGT) show a smaller degree of improvement as compared to symptom measures. Consistent with Metcalfe, C., Winter, D., Viney, L., (2007)
 - + Interpretations:
 1. The **methodology used limits** the possibility of observing changes. RGT capture changes.
 2. Change first occurs at a behavioral level.
 3. More personal measures are too broad-gauged or insufficiently focused on the precise changes.
 4. Meaning based measures are more abstract and could include more error variance.

- ✘ Relevant change in RGT measures in:
 - ★ The **presence or absence of dilemmas** / reinforced by the PID.
 - ★ **Self-Ideal differentiation.**

- ✘ Presence of IDs is not an indicator of pathology, although it appears to play a relevant role in mental health.

DISCUSSION

- ✘ We can only see those changes closely related to issues that were reflected in the pre-therapy grid. New structures created across the therapy process were not captured in the post-therapy assessment.
- ✘ The post-therapy grid is some kind of retest. Test-retest reliability studies (Feixas et al, 1992) found a **tightening effect** which can be functioning also here.
- ✘ Second objective of the study: there is a **significant decline of symptomatology** (GSI and BDI), and a more moderated decrease for RGT measures.
- ✘ **Clients benefit from personal construct psychotherapy.** Supports the assertion of Metcalfe, Winter, and Viney (2007).

FUTURE LINES OF RESEARCH

- ✘ To analyze repgrid variables as mediators of symptom change.
- ✘ To study symptomatic and cognitive predicting factors of therapeutic change.
- ✘ Developing the implications derived from the results to improve the cognitive-constructivist approach used.

Many thanks for your attention!!

opucurull@gmail.com

www.usal.es/tcp