

Cultural Considerations of Functional Outcomes in Chinese and Other Cultures

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Outside Activities: Last 12 Months

- Consultant:
 - Roche;Shire;Abbott; Wyeth; DSPA; Lilly; Bio Marin; B-I
 - Grant:
 - Astra-Zeneca

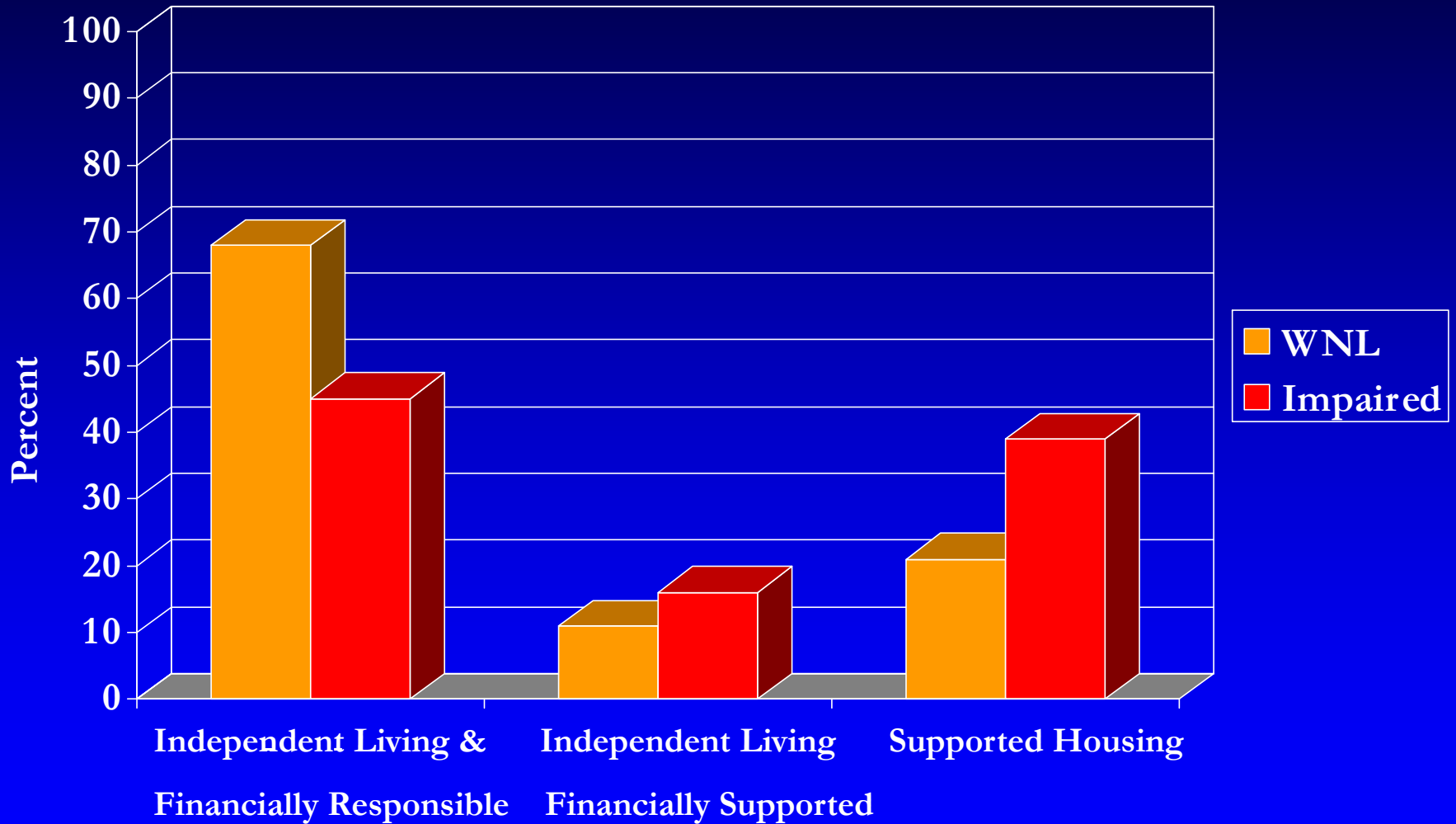
Where do you look to assess outcomes?

- For years behaviorally oriented therapists have appreciated the “competence-performance distinction”
 - Competence: Can I do it?
 - Performance: Do I do it?
- This is a critical distinction for attempting to enhance outcomes by targeting disability directly vs. targeting its determinants

Relationship of Competence and Performance

- In a practical sense, real-world outcomes are unrealistic targets for treatment studies
 - Marriage
 - Employment
 - Residential status
- Thus, competence measures may be most important as outcomes
- Can you measure them validly?
- Can you measure them across cultures?

Independent Living by NP Normal Status



$\chi^2=6.4, p<.05$

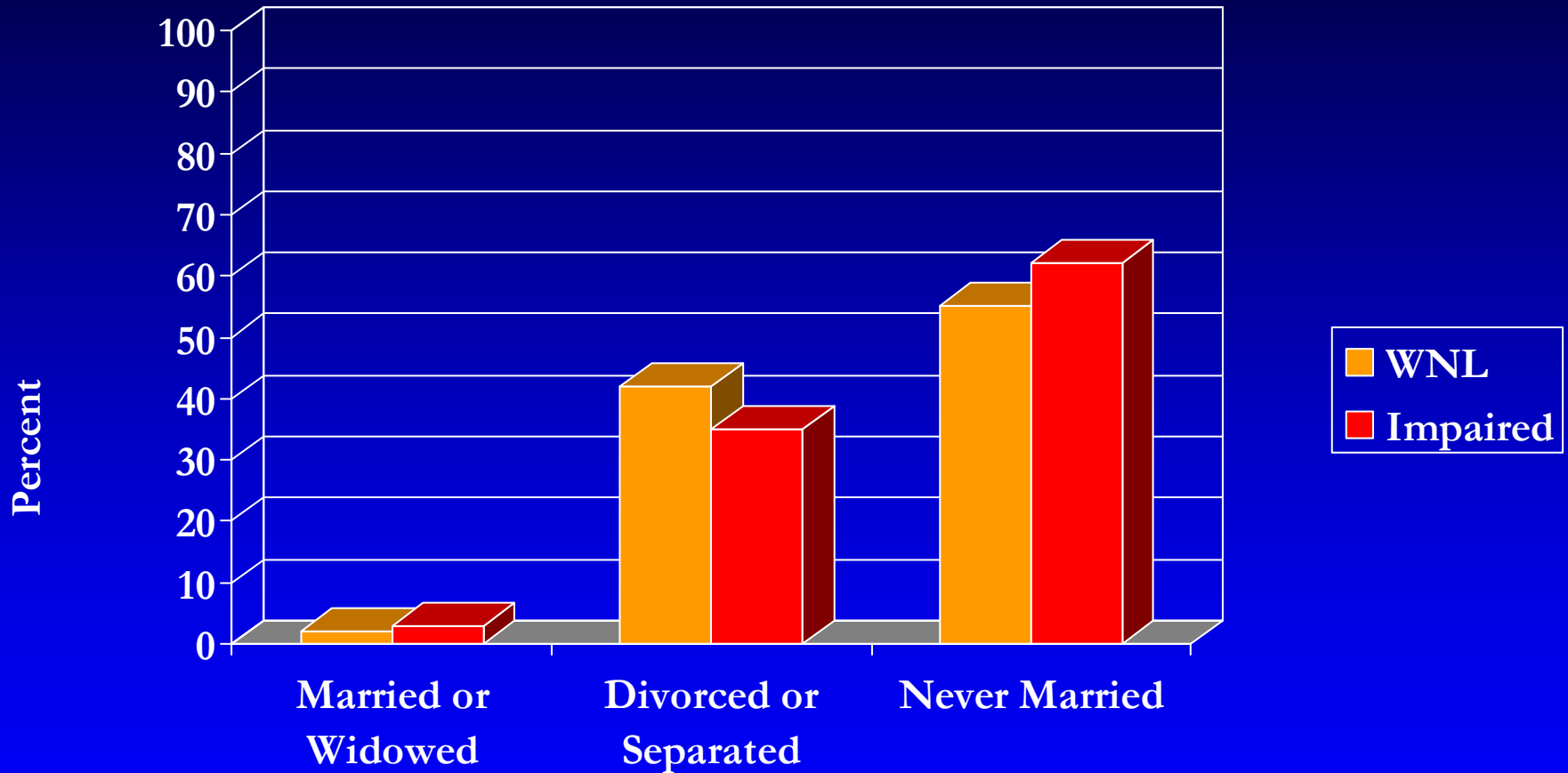
Leung et al., 2008

Work Status by NP Normal Status



$\chi^2=0.53, p=.76$

Marital Status by NP Normal Status

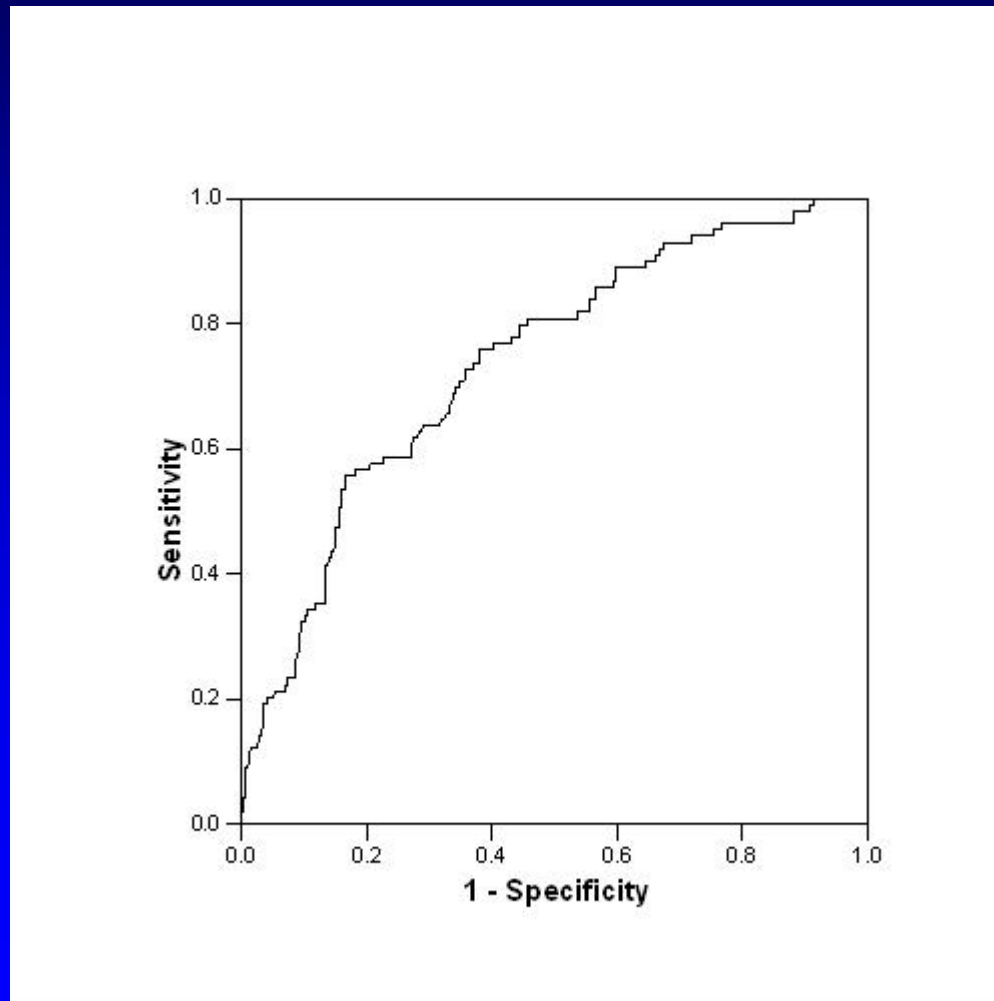


$\chi^2=0.6, p=.73$

Prediction of Residential Status

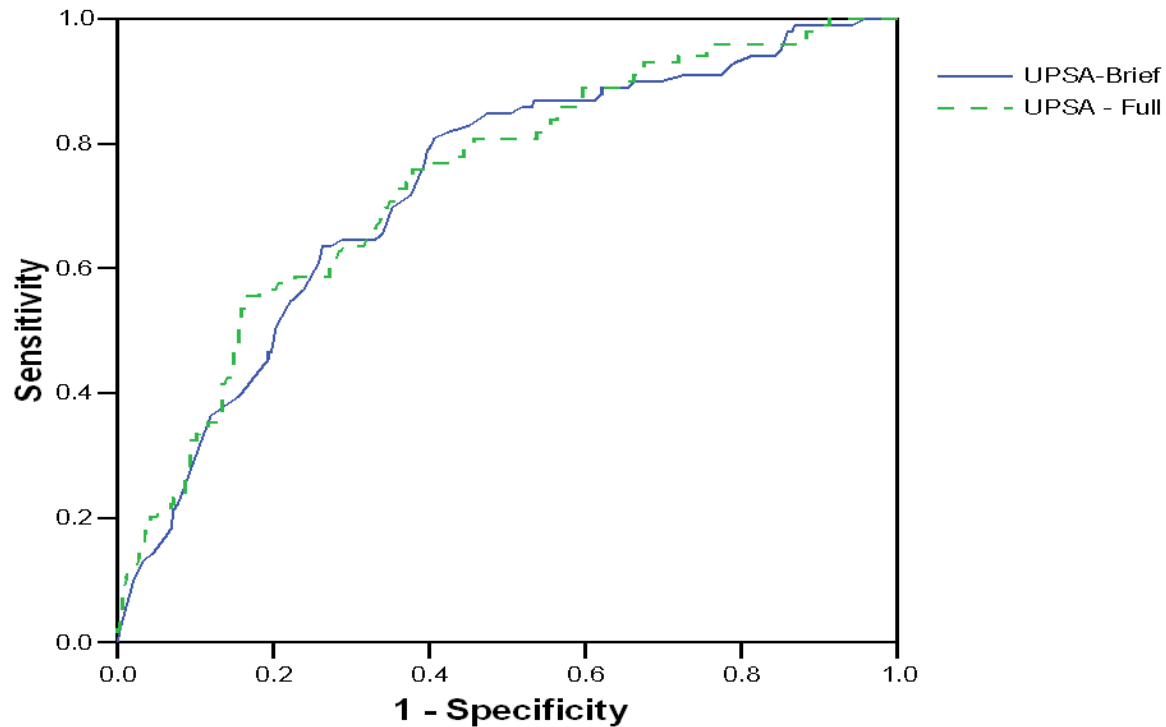
- Large scale study of residence in people with schizophrenia living in San Diego
- N=434
- 99 living independently
- UPSA scores used to predict residential status

Prediction of Residential Status



Mausbach et al., 2008

Short vs. Long Form



(Mausbach et al., 2007)

Cognition, Functional Capacity, and Real World Outcome

- Twamley et al., 2002
- McKibbin et al., 2004
- Bowie et al., 2006
- Keefe et al., 2006
- Green et al. 2008
- Harvey et al., 2009
- MATRICS-CT

What is consistent across studies?

- UPSA is correlated to cognition
 - Twamley et al. $r=.64$
 - McKibbin et al: $r=.63$
 - Bowie et al: $r=.60$
 - Keefe et al: $r=.65$
 - Green et al: $r=.61$
 - Harvey et al: $r=.54^*$
 - MATRICS-CT $r=.67$
- * Note. UPSA-B administered in Swedish; 4 test NP assessment

Measurement Properties of UPSA and NP Tests

	UPSA			NP		
	r	ES	RCI	r	ES	RCI
Six Month Retest	.77	.16	1.13	.77	.07	1.18
40 Month Retest	.73	.11	1.15	.76	.08	1.16

Thus, trait like nature and sensitivity to change are very similar

Performance-based disability across cultures

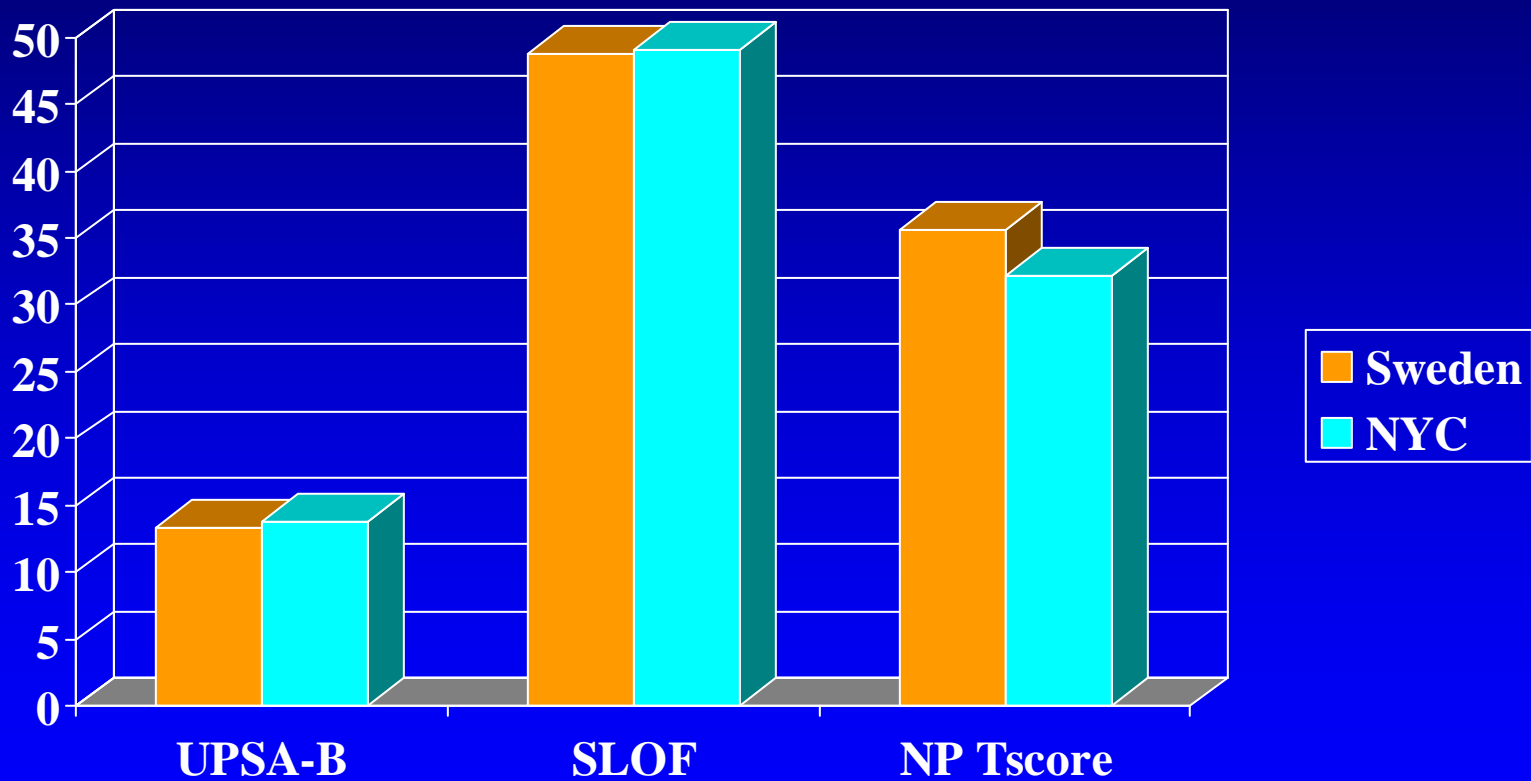
- Two studies to date
- Both suggest consistent performance across cultures
- Results do suggest that there are some issues in performance-based assessment in developing countries

Measuring Cognition and Disability Across Different Countries

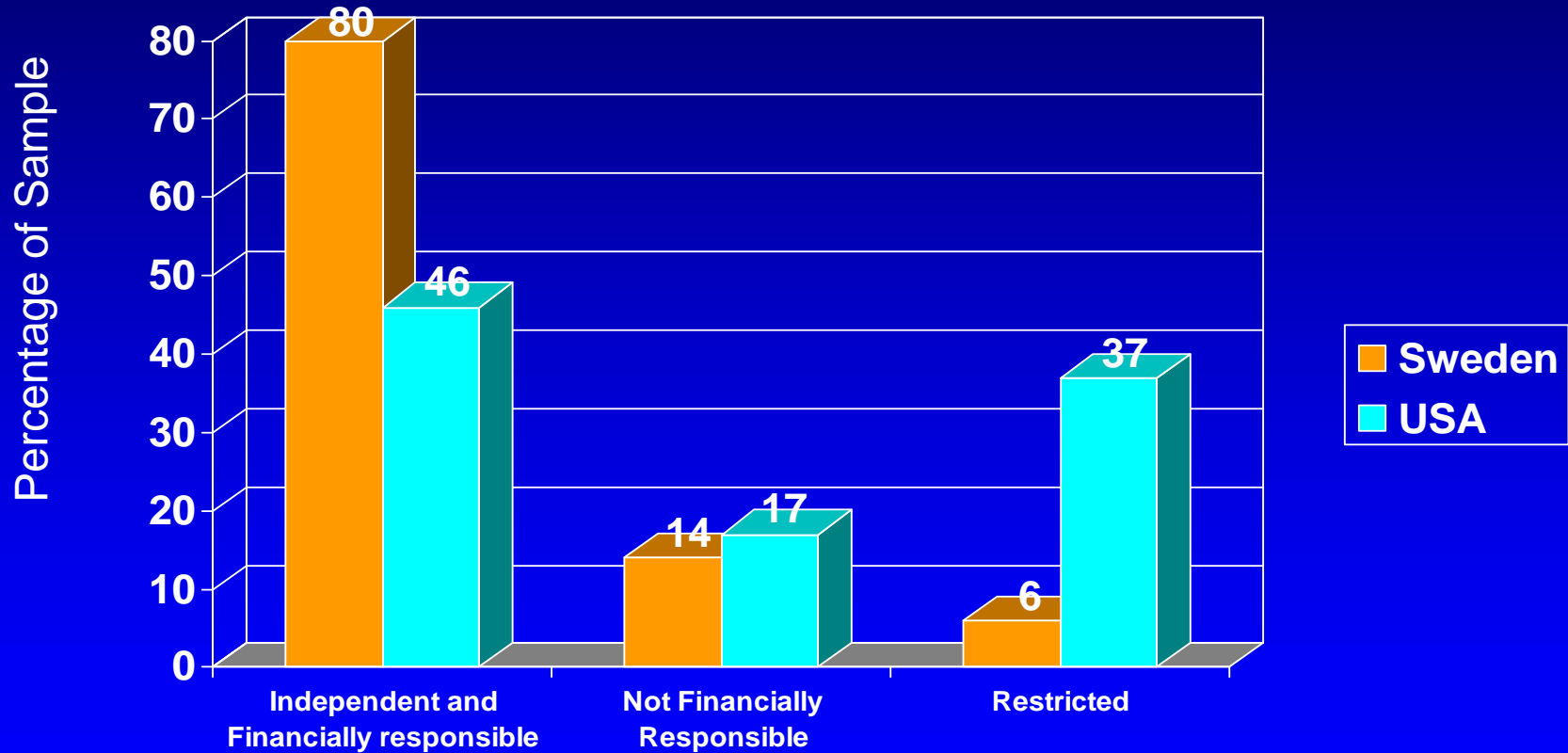
- Rural Sweden
- Urban New York
- Same outcomes measured:
 - NP performance; UPSA-B Scores; Rated RW outcomes; RW Milestones

Harvey et al., 2009

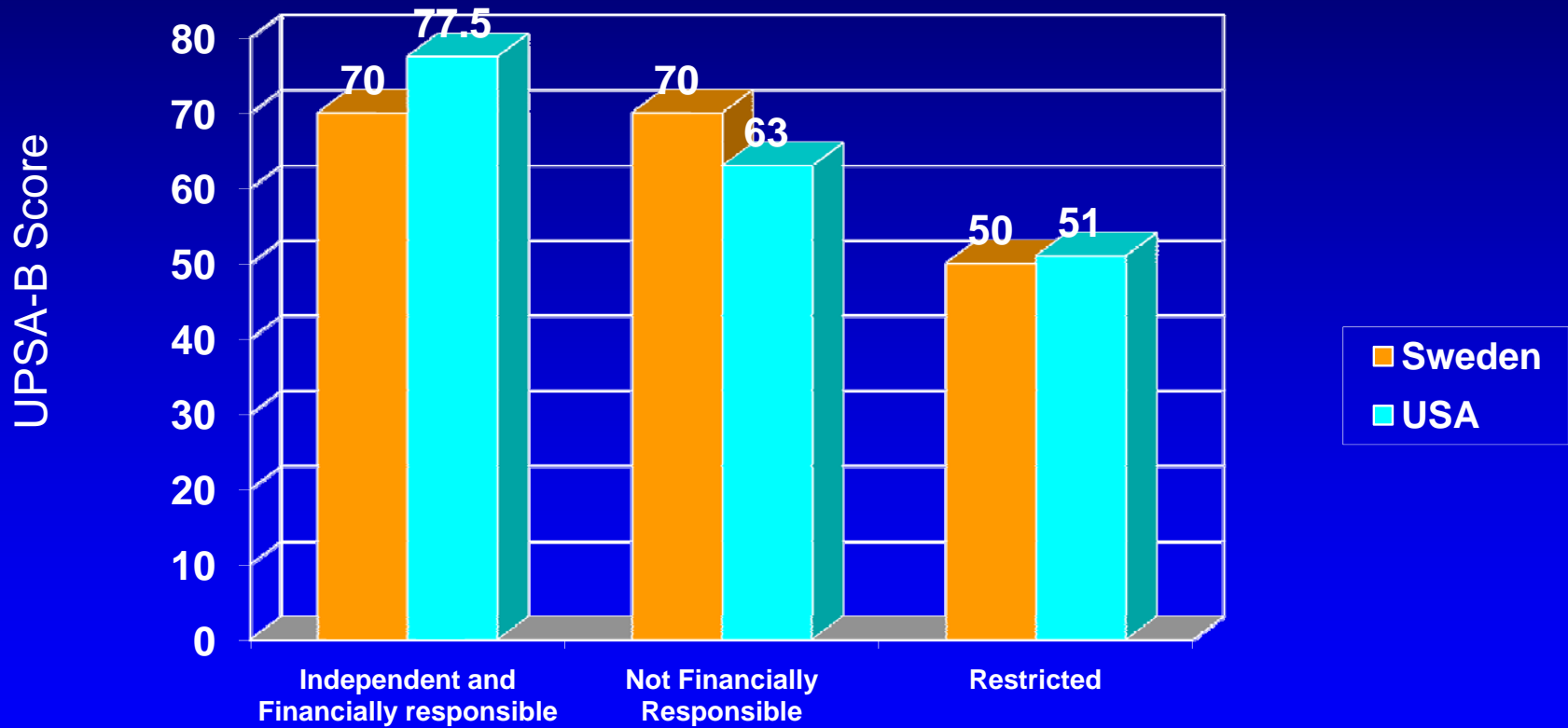
UPSA Scores, NP Performance, and SLOF Everyday Functioning



Residential Outcomes



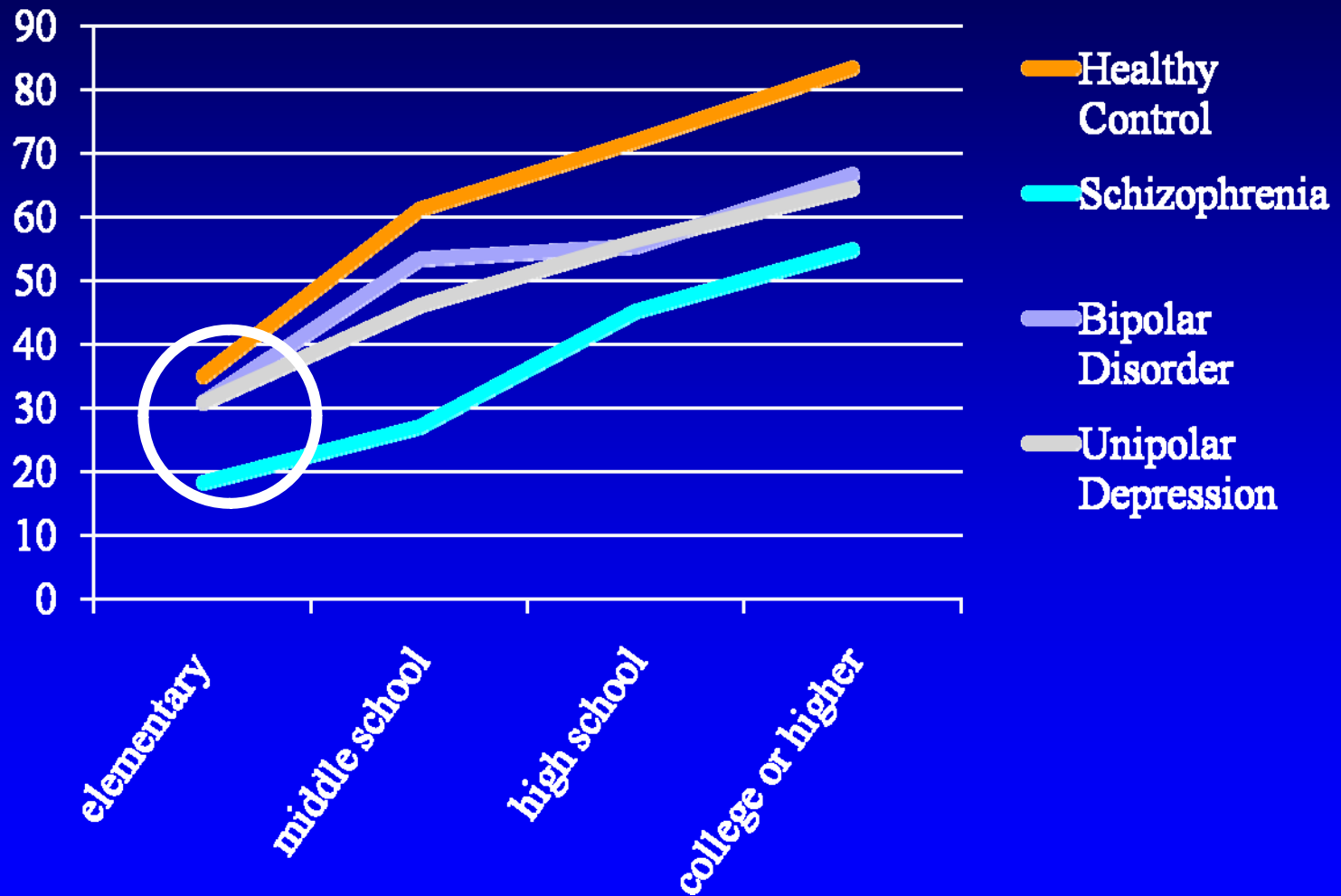
UPSA-B Scores by Residential Status



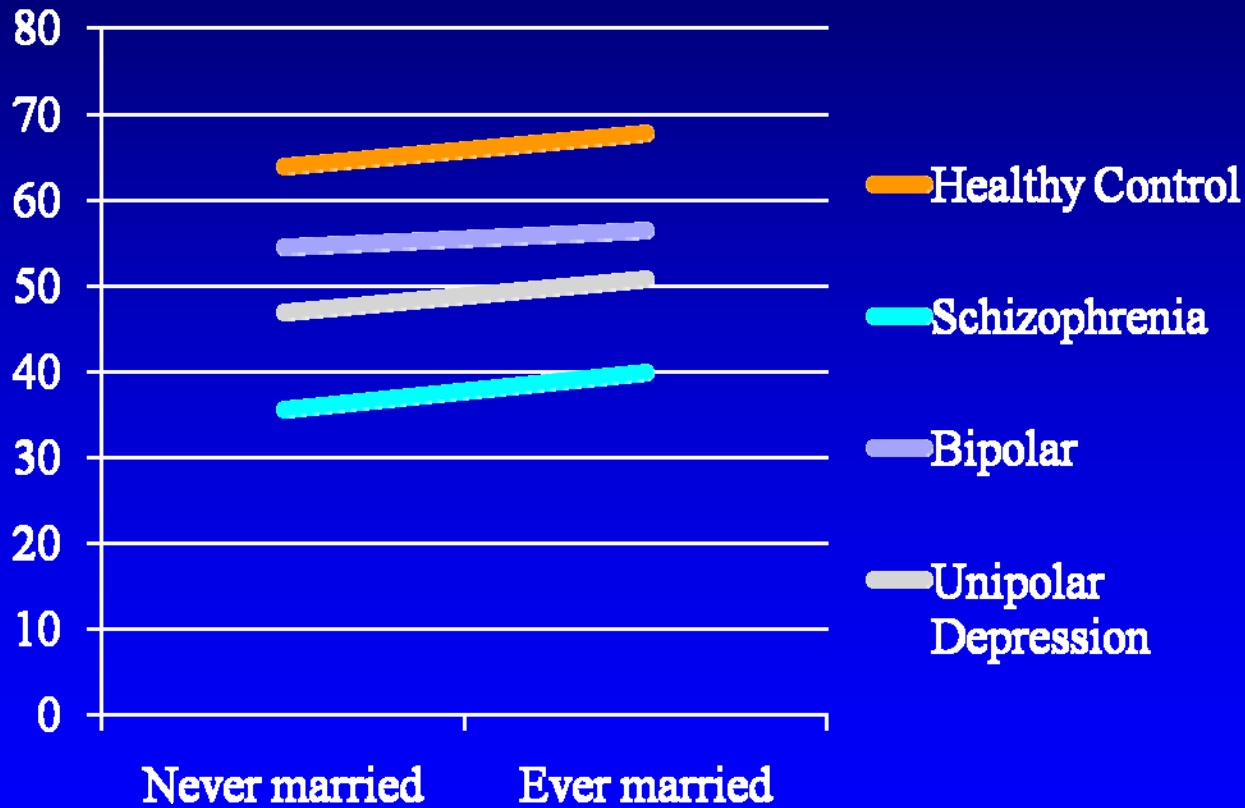
UPSA-B in China

- Large sample of Beijing residents
- Healthy comparison (n=282), schizophrenia (n=274), unipolar (n=51), and bipolar (n=60) subjects
- Wide-ranging age and educational status
- UPSA-B Translated and transliterated for use in China

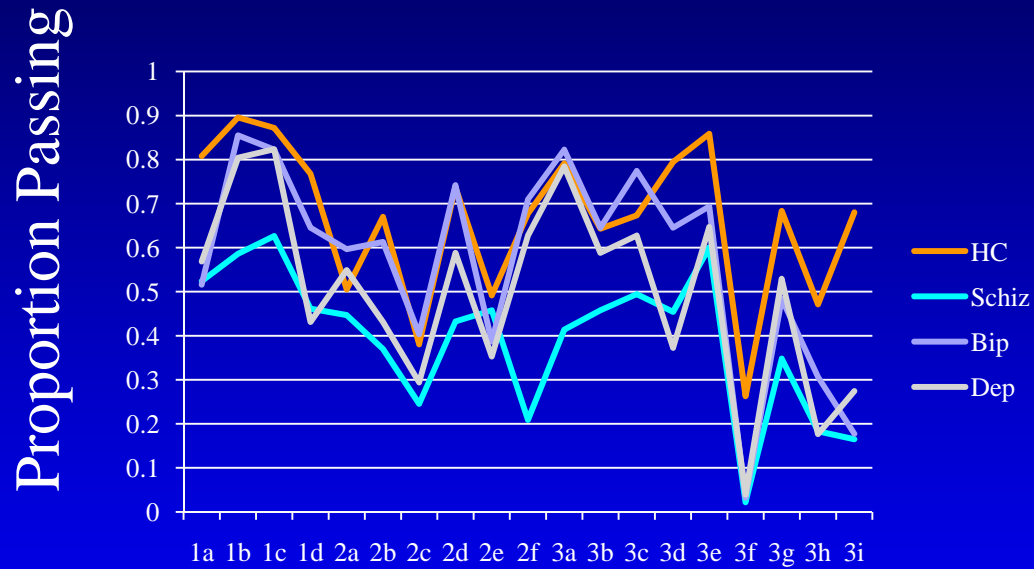
UPSA-B as a function of educational attainment



UPSA Score by Marital Status



Pass Rates by Item



Cash

Bill Pay

Communication

Fun facts

- In the HC sample, the correlation between height and UPSA-B scores was $r=.30$, $p<.001$, while in the schizophrenia sample the correlation was $r=.01$
- When the HC with education of 6 or fewer years are eliminated, the correlation disappears

Fun facts: Part 2

- 50% of the world's population has never made or received a telephone call
- There are no banks in many of the areas where clinical trials may be contemplated