



## **Supplementary Material**

**Article Title:** A Multicenter, Rater-Blinded, Randomized Controlled Study of Auditory Processing–Focused Cognitive Remediation Combined With Open-Label Lurasidone in Patients With Schizophrenia and Schizoaffective Disorder

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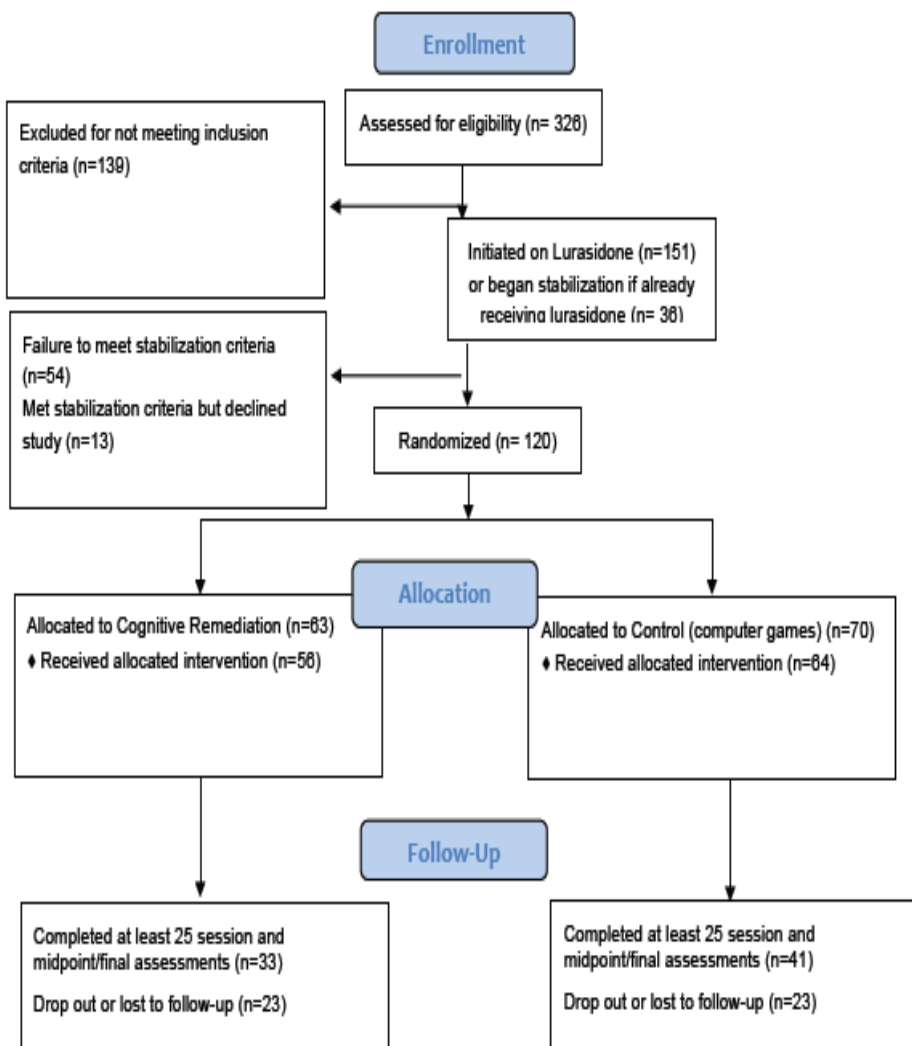
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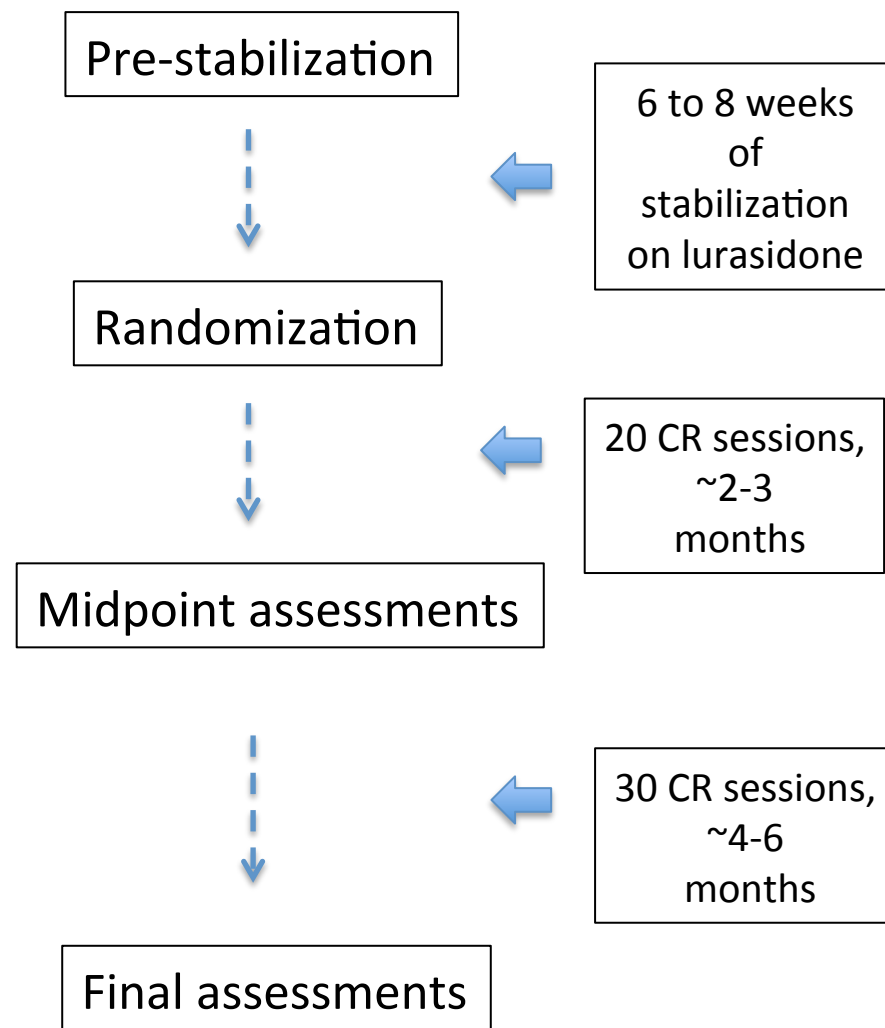
# A

CONSORT 2010 Flow Diagram

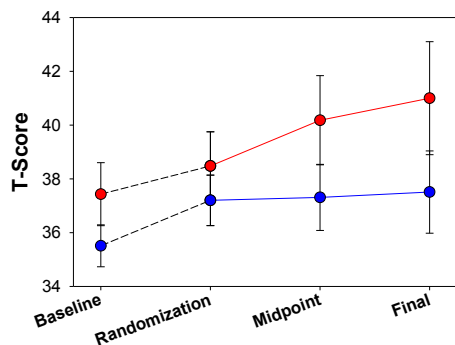


# B

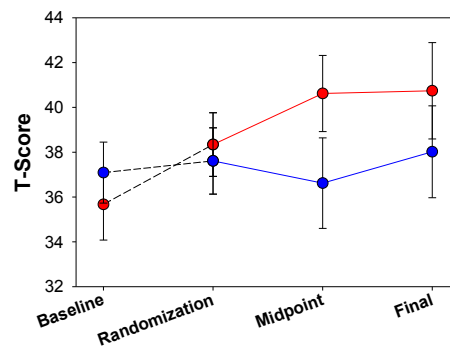
## Assessment Time points



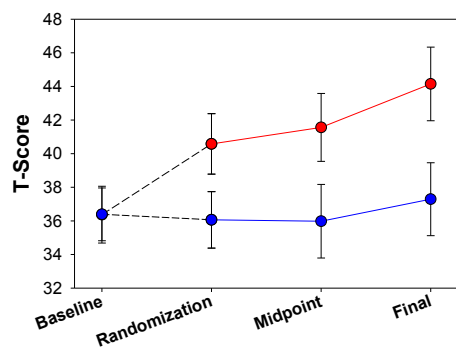
## Verbal Learning



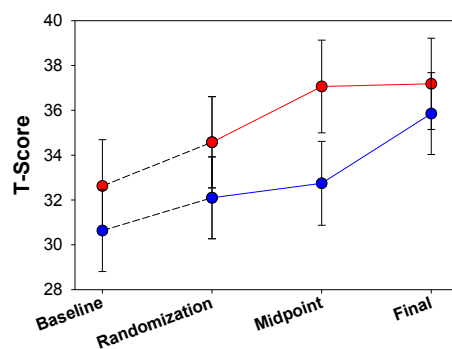
## Working Memory



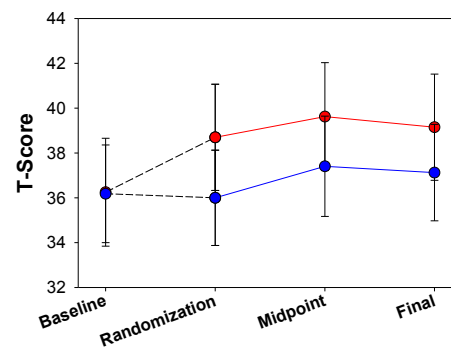
## Visual Learning



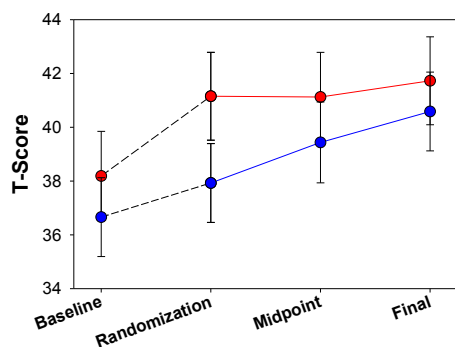
## SOP



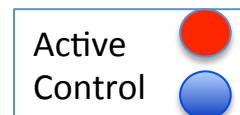
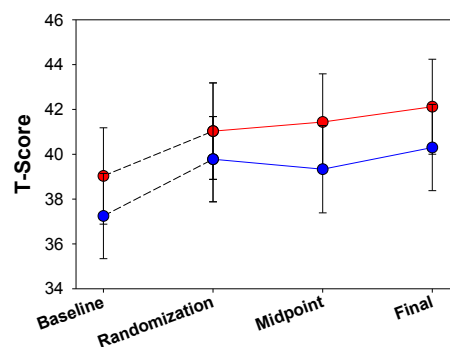
## Attention Vigilance



## Reason and Problem Solving



## Social Cognition



**Supplemental eFigure 2 footnote:** Line graph showing mean MATRICS consensus cognitive battery (MCCB) by domain T-score at baseline (pre-stabilization), randomization (post-stabilization), midpoint (after 20 session of CR) and at study completion. Active (auditory) is in red and control (Video games) is in blue. Dashed line indicates retrospective separation of the active and control groups prior to randomization. Abbreviations: Speed of Processing (SOP)

Supplemental eTable 1: Demographics and outcome measures at Randomization (post-stabilization)

		Cognitive remediation (n=56)	Computer games (n=64)	Between group (p)
Demographics and medication	Age	37.1±9.9	38.1±10.3	0.58
	Male (%)	61%	69%	0.36
	WTAR	31.6±9.4	31.3±11.6	0.90
	Lurasidone Dose at Randomization or dropout (mean)	63.0±23	69.3±34	0.24
	Receiving lurasidone pre-study	28%	23%	0.54
PANSS (score)	Total	57.8±15.3	60.3±16.8	0.39
	Positive	14.2±4.6	13.9±4.7	0.74
	Negative	14.8±5	16.2±5.1	0.12
	General	28.8±7.9	30.2±9.9	0.4
Cognition/function (T-score or total score)	Composite	34.2±11.6	30.5±10.9	0.08
	Speed of Processing	36.2±9.8	33.5±11.1	0.17
	Attention & Vigilance	38.7±12.5	36.5±13.3	0.36
	Working Memory	39.5±11.3	37.4±12.5	0.35
	Verbal Learning	39±10.4	37.1±7.8	0.27
	Visual Learning	<b>41.6±14.3</b>	<b>35.7±14.2</b>	<b>0.03</b>
	Reasoning & Problem Solving	<b>42.7±9.3</b>	<b>38.8±8.7</b>	<b>0.02</b>
	Social Cognition	42.1±11.6	41.1±12.5	0.66
	UPSA-B	78.1±12.7	74.8±14.8	0.2
	CAI	2.7±1.3	2.8±1.3	0.73

Adjunctive psychotropics (%) <sup>1</sup>	Antidepressants	18%	34%	0.06
	Sedative/hypnotics	30%	31%	0.99
	Mood Stabilizers	5%	8%	0.72
	Anticholinergic	13%	17%	0.61

1. Percent receiving adjunctive psychotropics at any point.

Abbreviations: Cognitive Assessment Interview (CAI), Positive and Negative Symptom Scale (PANSS), University of California Performance-based Skills Assessment-Brief (UPSA-B), Wechsler Test of Adult Reading (WTAR)