

USING DIFFERENT METHODS TO STUDY CLINICAL APPLICATIONS

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THE DERIVED SELF OF ADHD PART DEUX

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GOT 99 PROBLEMS BUT ADHD HELPS ME FORGET

- Increased risk of school failure
 - More likely to repeat a grade, be suspended, or expelled.
 - Less likely to graduate from high school by the age of 18.
- ADHD in College:
 - Lower GPA and academic probation.
 - Tend to lack the organisational and study skills necessary for the more stringent academic expectations of a university.
 - Less likely to graduate from undergrad and far less likely to pursue or complete a postgraduate degree.

GOT 99 PROBLEMS BUT ADHD HELPS ME FORGET

- Inattention-type:
 - More likely to face ridicule and ostracism for being “shy.”
- Impulsive-type:
 - More likely to violate social norms and irritate others.
- All types of ADHD:
 - Less likely to have more than one friend.
 - Lack close peer relationships.
 - Experience social isolation and peer rejection.



FEELS GOOD TO BE AMONG THE WORST


- Discrepancy between perceived and actual competency is of greater magnitude in ADHD samples vs. Control samples.
- In fact, greater discrepancies are predictive of inattention and impulsivity.
- Moderate PIB is adaptive in that they enhance motivation, performance, and persistence.
- Does not appear to be true for ADHD samples.
- PIB in ADHD is counterintuitive as they struggle in so many domains yet maintain the PIB.
- Normal kids have some success in each domain upon which PIB is supported.

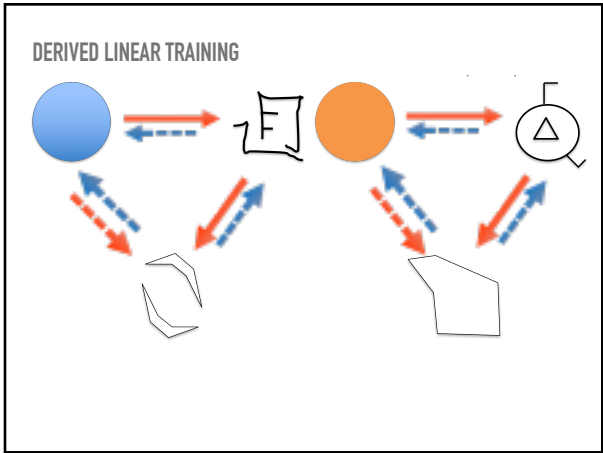




PARTICIPANTS

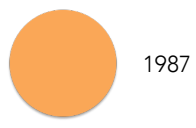
- N = 13 (MAGE = 19.3)
- 9 women, 4 men
 - 7 Caucasian-American
 - 4 African-American
 - 1 Hispanic/Latino
 - 1 Decline to State






EVALUATIVE CONDITIONING TASK

Differential Reinforcement of High Rate of Responding



EVALUATIVE CONDITIONING TASK

Differential Reinforcement of Low Rate of Responding






EFFICACY SELF-REPORT




On a scale of ONE to TEN, How effective do you think your space bar pressing was in gaining points? Please slide the slider bar to make your choice and then CLICK the CONFIRM CHOICE button underneath to PROCEED.

1 2 3 4 5 6 7 8 9 10
ineffective effective

DIRECT STIMULI GO/NOGO

	E
	

DIRECT STIMULI GO/NOGO




	
F	

EFFICACY SELF-REPORT

On a scale of ONE to TEN, How effective do you think you were at targeting the letter "F"? Please slide the slider bar to make your choice and then CLICK the CONFIRM CHOICE button underneath to PROCEED.

1 2 3 4 5 6 7 8 9 10
ineffective effective

DERIVED STIMULI GO/NOGO

	
	P

DERIVED STIMULI GO/NOGO

R	

EFFICACY SELF-REPORT

On a scale of ONE to TEN, How effective do you think you were at targeting the letter "R"? Please slide the slider bar to make your choice and then CLICK the CONFIRM CHOICE button underneath to PROCEED.

1 2 3 4 5 6 7 8 9 10
ineffective effective

STIMULUS SORTING TASK



HYPOTHESIS #1


Participants would demonstrate mutual and combinatorial entailment in the test for derived relations.

RESULTS: EMERGENT RELATIONS

- ▶ Four participants did not pass emergent relations training and testing.
- ▶ All four had self-reported a clinical diagnosis:
 - ▶ 3 women w/ ADHD (2 of which were on stimulant medication)
 - ▶ 1 man w/ Asperger's

HYPOTHESIS #2

Participants would report lower judgments of causal efficacy with the DRL schedule than with the DRH schedule.



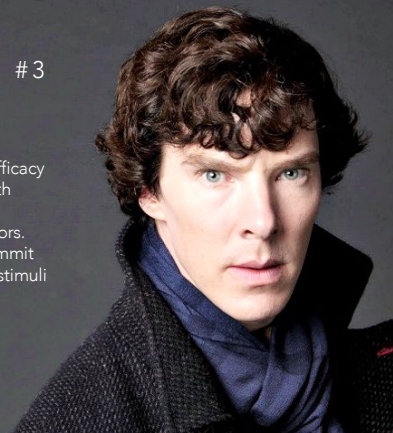


EVALUATIVE CONDITIONING TASK

Participant #	AVG DRL Efficacy	AVG DRH Efficacy	DRL 1 Keypress	DRL 2-6 AVG Keypress	DRL AVG Points	DRH 1 Keypress	DRH 2-6 AVG Keypress	DRH AVG Points
555	1.00	10.00	363	1147	1.50	1646	3576.4	650.50
557	1.50	8.50	430	626	1.33	1701	2060.2	398.83
558	1.00	9.67	279	973.2	0.00	647	3075.2	533.67
559	8.00	9.33	546	2087	0.00	648	3169.6	549.00
560	5.50	8.67	649	603.4	0.00	713	630.8	128.33
561	8.33	9.00	607	604.4	0.17	629	578.2	116.83
562	8.33	9.83	192	26.6	17.67	453	3536.0	602.17
563	1.17	9.33	357	406.2	0.33	606	554.8	111.33
564	1.17	8.33	324	505.2	0.50	606	680.8	132.17

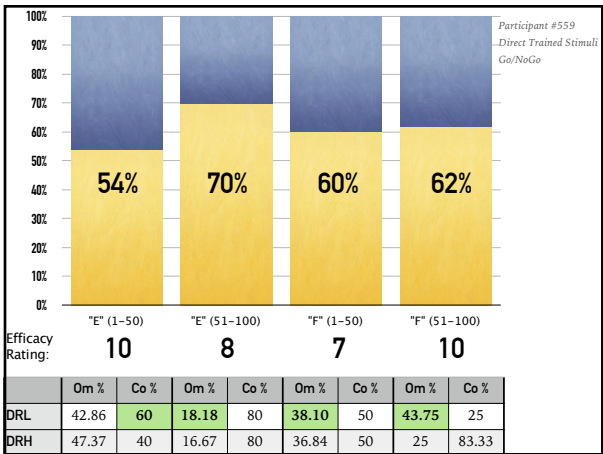
HYPOTHESIS #3

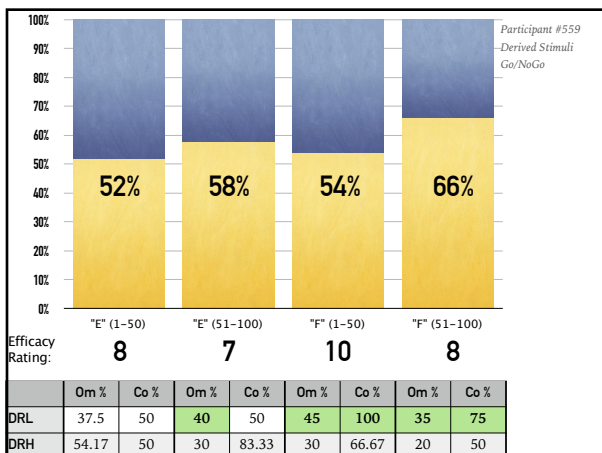
Participants would overestimate causal efficacy on Go/NoGo tasks with greater discrepancies predictive of more errors. Participants would commit more errors with DRL stimuli than with DRH.

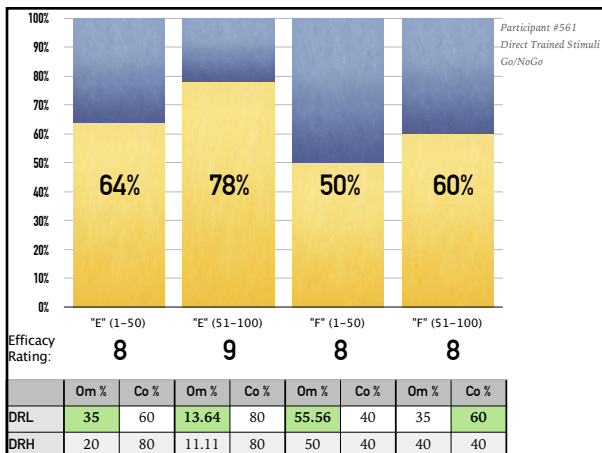


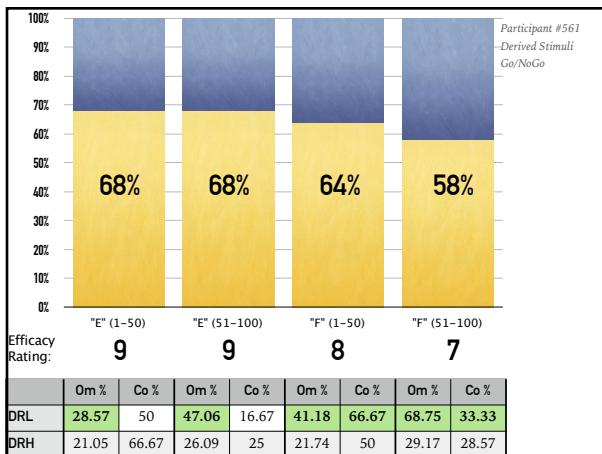
EFFICACY VS GO/NOGO PERFORMANCE

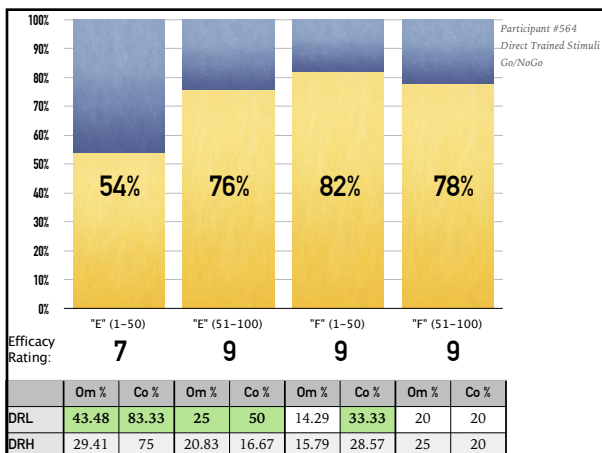
Go/NoGo Correct %	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Efficacy Rating	1	2	3	4	5	6	7	8	9	10

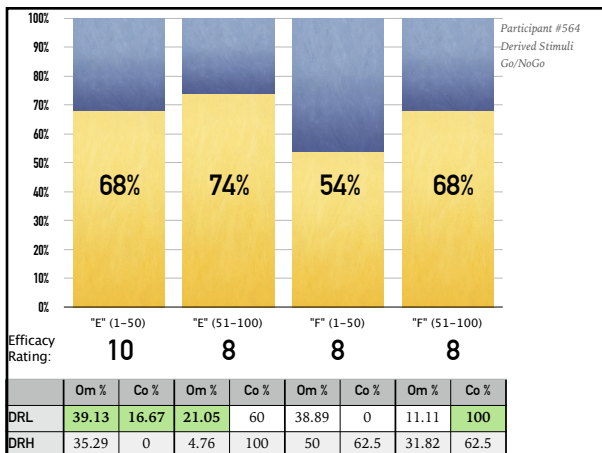




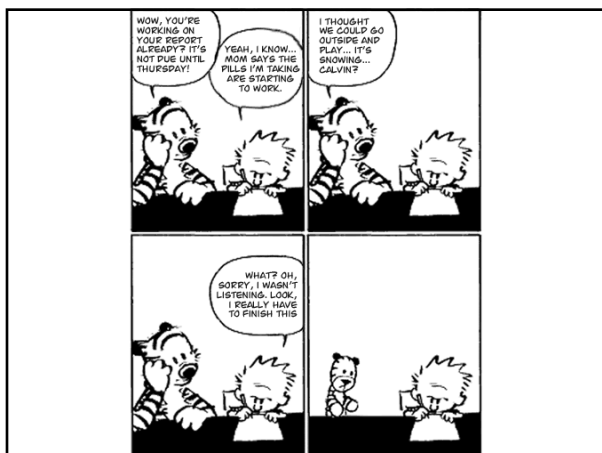


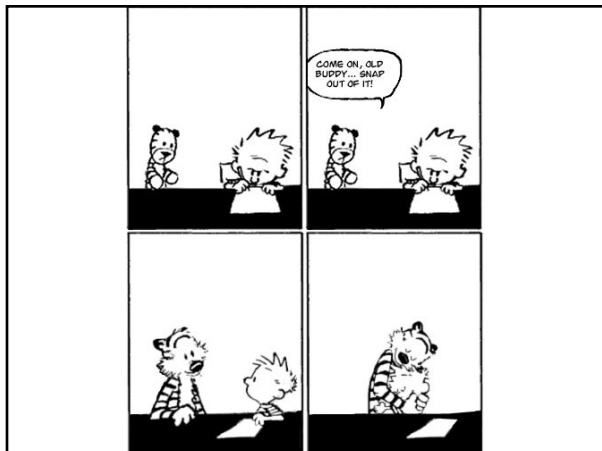












THANK YOU!

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