

Appendix

Table A1: Common SAC Model Parameters for Each Experiment

Parameter	Parameter Value				
	Model 1	Model 2	Model 3	Model 4	Model 5
$\sigma_{concept}$	8.79	12.81	10.56	N/A	9
$\tau_{concept}$	52.78	54.99	51.99	N/A	54.57
$\sigma_{episode}$	12.45	11.62	21.26	0.36	15
$\tau_{episode}$	23.64	19.86	27.34	4.52	46.25

$\sigma_{concept}$ = Concept activation standard deviation, $\tau_{concept}$ = Concept activation threshold, $\sigma_{episode}$ = Episode activation standard deviation, $\tau_{episode}$ = Episode activation threshold. Model 1 = Reder, Donavos, and Erickson (2002, Experiment 3), Model 2 = Diana, Peterson, and Reder (2004, Experiment 1 – Immediate Condition), Model 3 = Diana, Peterson, and Reder (2004, Experiment 1 – Delay Condition), Model 4 = Reder et al. (2007), Model 5 = Buchler, Light and Reder (2008, Experiment 2).

Table A2: Additional Model Information for Reder et al. (2007)

Parameter	Description	Value
T_{hl}	Rate the drug gets to half potency (memorial effects)	31 mins

Equation	Description	
$P(\text{encoding}) = 1 - C_m \cdot 2^{-\frac{t_{injection}}{t_{hl}}}$	Probability of forming a new link under midazolam	