

We adopted a conservative approach (in comparison to the use of parametric tests) in *Tosun, T., Gür, E., & Balci, F. (2016). Mice plan decision strategies based on previously learned time intervals, locations, and probabilities. Proceedings of the National Academy of Sciences, 113, 787–792* and analyzed the data with non-parametric tests. For readers who are interested, the results gathered based on the corresponding parametric tests are presented in the table below. These analyses revealed nearly identical results to the ones reported in the paper and they support the same conclusions.

Experiment 1		
Comparison of switch rates between the last session of training and first session of testing		
	p(short)=.25	t(4)=-17.95, p<.001
	p(short)=.50	t(4)=-5.91, p<.01
	p(short)=.75	t(4)=-5.27, p<.01
Comparison of $T_{Long,Start}$ in long trials between two phases		
	p(short)=.25	t(4)=-7.81, p<.01
	p(short)=.50	t(4)=-6.05, p<.01
	p(short)=.75	t(3)=-5.28, p<.05
Comparison of $T_{Long,Start}$ differences between groups		
	Last training session	F(2,12)=1.17, p=.34
	First test session	F(2,11)=5.05, p<.05
	p(short)=.25 vs. p(short)=.50	t(8)=-1.27, p = .24
	p(short)=.50 vs. p(short)=.75	t(7)=-1.63, p = .15
	p(short)=.25 vs. p(short)=.75	t(7)=-4.55, p < .01 (holds after Holm-Bonferroni [HB])
Comparison of mean switch times between three groups		
	p(short)=.25 vs. p(short)=.50	t(8)=-2.86, p<.05 (does not hold after HB)

	p(short)=.50 vs. p(short)=.75	t(8)=-2.68, p<.05 (does not hold after HB)
	p(short)=.25 vs. p(short)=.75	t(8)=-5.19, p<.01 (holds after HB)
Comparison of standard deviation of switch times between three groups		
		F(2,12)=1.06, p=.38
Comparison of coefficient of variation of switch times between three groups		
		F(2,12)=2.62, p=.11
Experiment 1: Supporting Information		
Comparison of switch rates between probability groups (SI 1.1)		
	Last training session	F(2,12)=.54, p=.60
	First test session	F(2,12)=.32, p=.73
	Phase difference	F(2,12)=.31, p=.74
Comparison of T _{Short,Start} in short trials between two phases (SI 1.2)		
	p(short)=.25	t(4)=-.46, p=.67
	p(short)=.50	t(4)=.23, p=.83
	p(short)=.75	t(4)=-.15, p=.89
Comparison of T _{Short,Start} between groups (SI 1.2)		
	Last training session	F(2,12)=1.54, p=.25
	First test session	F(2,12)=5.94, p<.05
	p(short)=.25 vs. p(short)=.50	t(8)=3.14, p < .05 (holds after HB)
	p(short)=.50 vs. p(short)=.75	t(8)=-.67, p = .52
	p(short)=.25 vs. p(short)=.75	t(8)=2.80, p < .05 (does not hold after HB)
Comparison of T _{Long,Start} vs T _{Short,Start} during training (SI 1.3)		
	p(short)=.25	t(4)=2.88, p<.05

	p(short)=.50	t(4)=3.99, p<.05
	p(short)=.75	t(4)=6.13, p<.01
Comparison of $T_{Long,Start}$ vs $T_{Short,Start}$ during testing (SI 1.3)		
	p(short)=.25	t(4)=9.11, p<.01
	p(short)=.50	t(4)=7.48, p<.01
	p(short)=.75	t(3)=10.09, p<.01
Comparison of latency difference ($T_{Long,Start} - T_{Short,Start}$) between two phases (SI 1.3)		
	p(short)=.25	t(4)=-6.05, p<.01
	p(short)=.50	t(4)=-7.19, p<.01
	p(short)=.75	t(3)=-5.30, p<.05
Comparison of slopes to 0 (SI 1.5)		
	p(short)=.25	t(4)=.32, p=.76
	p(short)=.50	t(4)=.91 p=.41
	p(short)=.75	t(4)=-1.84 p=.14
Experiment 2		
Comparisons of switch rates between the last session of training and first session of testing		
	p(short)=.50: Phase 1 Last Ses vs. Phase 2 First Ses	t(5)=-3.70, p<.05
	p(short)=.75: Phase 1 Last Ses vs. Phase 2 First Ses	t(5)=-7.53, p<.001
	p(short)=.50: Phase 1 Last 5 SP Ses vs. Phase 2 First Ses	t(5)=-4.93, p<.01
	p(short)=.75: Phase 1 Last 5 SP Ses vs. Phase 2 First Ses	t(5)=-7.15, p<.001
Comparison of $T_{Long,Start}$ in long trials between two phases		
	p(short)=.50	t(5)=-4.27, p<.01
	p(short)=.75	t(5)=-5.47, p<.01

Comparison of $T_{\text{Long,Start}}$ differences between groups		
	Last training session	$t(10)=-.53, p=.61$
	First test session	$t(10)=.39, p=.71$
Comparison of $T_{\text{Short,Stop}}$ in short trials between two phases		
	$p(\text{short})=.50$	$t(5)=2.79, p<.05$
	$p(\text{short})=.75$	$t(5)=7.45, p<.01$
Comparison of $T_{\text{Short,Stop}}$ differences between groups		
	Last 5 training session (SP trials)	$t(10)=2.09, p=.06$
	First test session	$t(10)=.63, p=.55$
Comparison of mean switch times between two groups		$t(10)=.07, p=.95$
Comparison of standard deviation of switch times between two groups		$t(10)=.64, p=.54$
Comparison of coefficient of variation of switch times between two groups		$t(10)=.73, p=.48$
Experiment 2: Supporting Information		
Comparison of switch rates between probability groups (SI 2.1)		
	Last training session	$t(10)=.59, p=.57$
	First test session	$t(10)=-.74, p=.48$
	Phase difference	$t(10)=-1.14, p=.28$
	Last 5 training session (SP trials)	$t(10)=.43, p=.67$
Comparison of switch rates between phases (SI 2.2)		
	$p(\text{short})=.50$: Phase 1 Last 5 LP vs. Phase 2 First Ses	$t(5)=-3.12, p<.05$
	$p(\text{short})=.75$: Phase 1 Last 5LP vs. Phase 2 First Ses	$t(5)=-6.49, p<.001$
	$p(\text{short})=.50$: Phase 1 Last 5 SP vs. Phase 1 Last 5 LP	$t(5)=-1.17, p=.30$

p(short)=.75: Phase 1 Last 5 SP vs. Phase 1 Last 5 LP	t(5)=-.64, p=.55
Comparison of switch rates between probability groups (SI 2.2)	
Last 5 training session (LP trials)	t(10)=.68, p=.51
Comparison of switch rates between short probe and long trials of training (SI 2.3)	
p(short)=.50: Phase 1 Last Ses vs. Phase 1 Last 5 SP	t(5)=1.11, p=.32
p(short)=.75: Phase 1 Last Ses vs. Phase 1 Last 5 SP	t(5)=.68, p=.53
Comparison of $T_{Short,Start}$ in short trials between two phases(SI 2.4)	
p(short)=.50	t(5)=-.68, p=.53
p(short)=.75	t(5)=.44, p=.68
Comparison of $T_{Short,Start}$ in long (test) vs $T_{Short,Start}$ in SP (training)(SI 2.4)	
p(short)=.50	t(5)=1.12, p=.31
p(short)=.75	t(5)=-5.57, p< .01
Comparison of $T_{Short,Start}$ differences between groups (SI 2.4)	
Last training session(short trials)	t(10)=.81, p=.44
First test session(short trials)	t(10)=1.28, p=.23
Last 5 training session (SP trials)	t(10)=1.54, p=.16
Long Trials of First Test session	t(10)=1.99, p=.08
$T_{Long,Start}$ in long trials vs $T_{Short,Start}$ in short trials during training (SI 2.5)	
p(short)=.50	t(5)=4.91, p<.01
p(short)=.75	t(5)=7.70, p<.01
$T_{Long,Start}$ in long trials vs $T_{Short,Start}$ in SP trials during training (SI 2.5)	

	p(short)=.50	t(5)=3.89, p<.05
	p(short)=.75	t(5)=8.43, p<.001
T_{Long,Start} in long trials vs T_{Short,Start} in short trials during testing (SI 2.5)		
	p(short)=.50	t(5)=7.67, p<.01
	p(short)=.75	t(5)=12.71, p<.001
Comparison of latency difference (T_{Long,Start} - T_{Short,Start}) between two phases (SI 2.5)		
	p(short)=.50	t(5)=-4.15, p<.01
	p(short)=.75	t(5)=-6.03, p<.01
Comparison of latency difference (T_{Long,Start} - T_{Short,Start}) between two phases (short from SP trials) (SI 2.5)		
	p(short)=.50	t(5)=-4.13, p<.01
	p(short)=.75	t(5)=-5.52, p<.01
Comparison of slopes to 0 (SI 2.7)		
	p(short)=.50	t(5)=-3.00, p<.05
	p(short)=.75	t(5)=-1.30, p=.25