

Supplemental Material

Developmental Exposure to Concentrated Ambient Particles and Preference for Immediate Reward in Mice

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Correction

In the manuscript originally published online, an author was omitted. Carl J. Johnston and his affiliation have been added here.

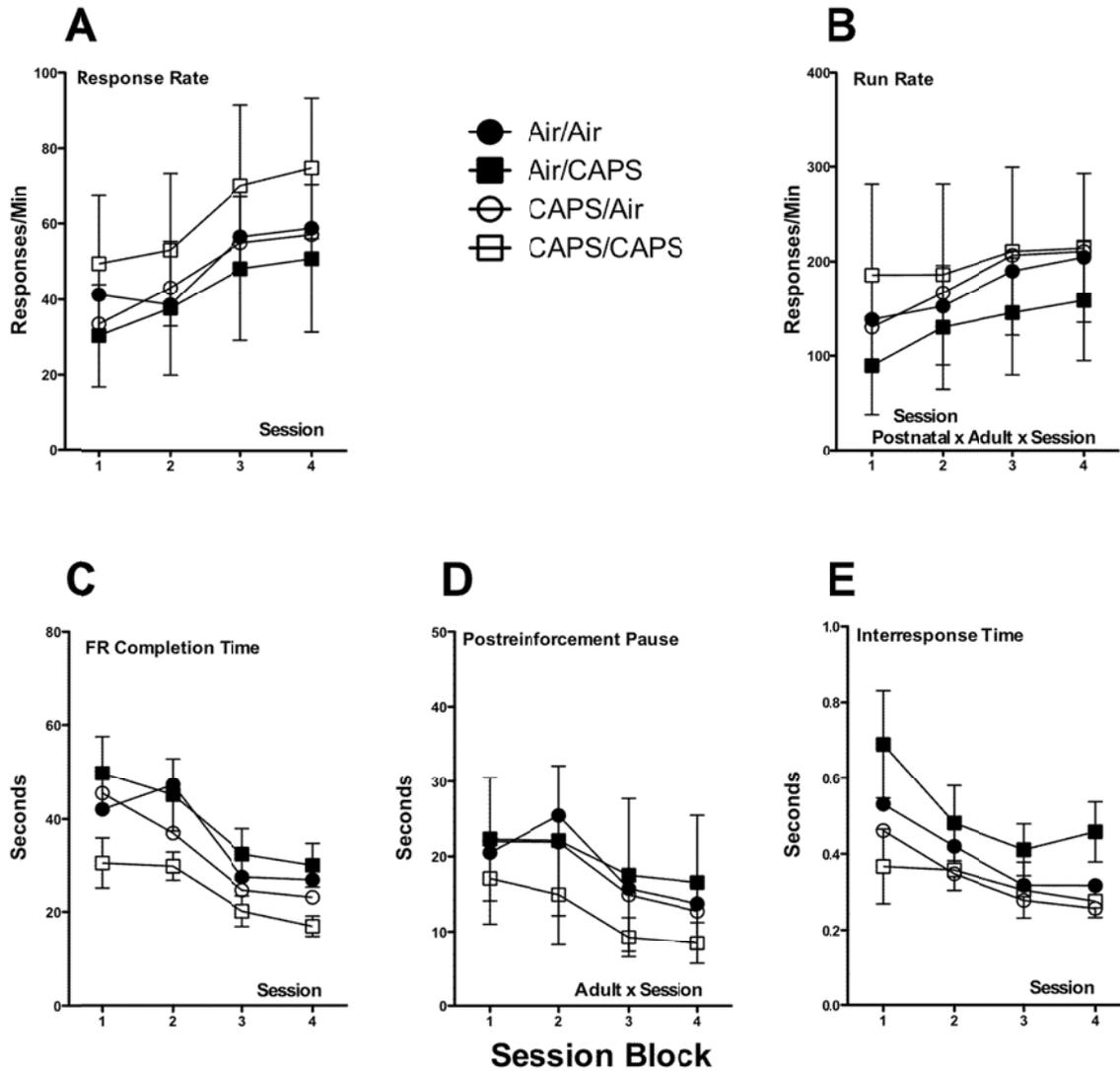


Figure S1. **A.** Response rates, **B.** Run rates, **C.** FR completion time, **D.** Post-reinforcement pause times (D), and **E.** Inter-response times (E) for mice exposed to CAPS in postnatal, adult, or both exposure period during FR25 baseline sessions. Five individual sessions were combined into a single data point. Reported as group mean \pm SE, $n = 7-8$ /treatment group. Labels above the x axis indicate outcome of statistical analyses.

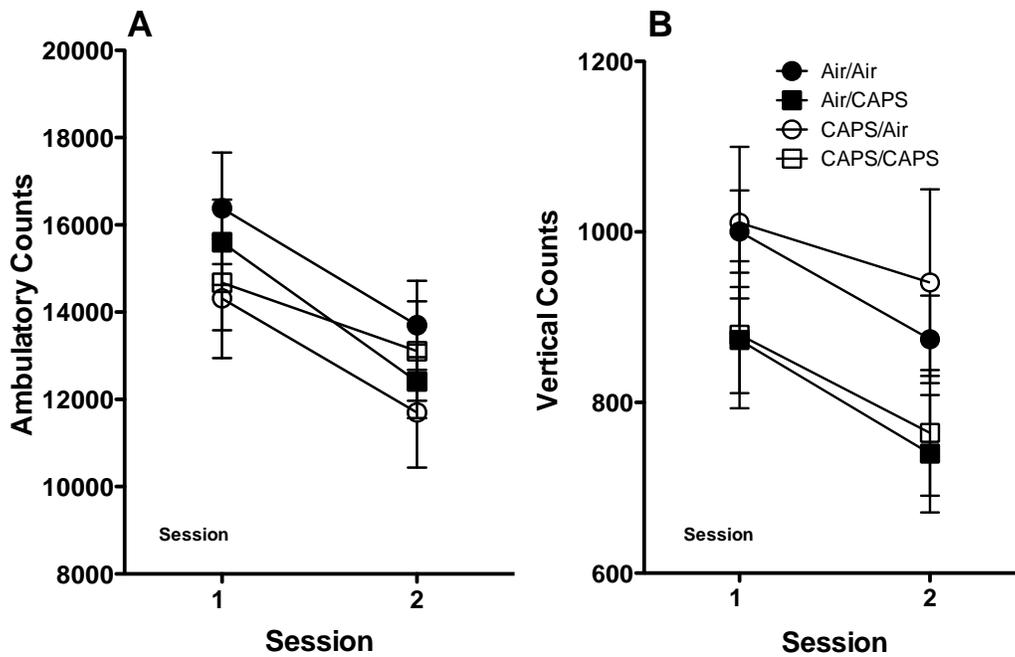


Figure S2. Horizontal and vertical spontaneous activity from 2 sessions from mice exposed to CAPS or filtered air in postnatal, adult, or both exposure periods. Data acquired for 2 days following cessation of final FR 25 training/baseline session. Reported as group mean \pm SE, $n = 7-8$ /treatment group. **A.** Ambulatory (horizontal movement) activity across sessions. **B.** Vertical (rearing) activity across sessions. Labels above the x axis indicate outcome of statistical analyses.

Table S1: Summary of two-factor repeated measures ANOVA results for FR and waiting behavior collected from FR baseline performance and FR waiting-for-reward sessions. $P < 0.05$, unless otherwise indicated.

		FR Behavior			
	Overall Rate	Run Rate	PRP	IRT	FR Comp
FR Baseline	Session	Postnatal x Adult x Session; Session	Adult x Session	Session	Session
FR Waiting-For-Reward	Postnatal; Postnatal x Adult x Wait; Wait	Postnatal; Wait	Wait	Postnatal	Postnatal x Adult x Wait; Wait

		Waiting Behavior			
	FR Resets	Resp/Reinf	Long Wait Time	Mean Wait Time	Mean Wait Time/FR Completion Time
FR Waiting-For-Reward	Postnatal; Postnatal x Adult x Wait; Wait	Postnatal $p=0.056$; Wait	Wait	Wait	Adult; Wait

Table S2: Estimate of Inhaled Dose

Exposure Period	Early Postnatal	Adult
Average Mass Concentration ($\mu\text{g}/\text{m}^3$)	96.4	67.9
Assumed Minute Ventilation (mL/min)	10 [*]	86 ⁺
Duration of Exposure (min)	1920	960
Assumed Body Weight (g)	6 ^{>}	24 ^{<}
Estimated Total Inhaled Dose (μg)	1.9	5.6
Estimated Inhaled Dose ($\mu\text{g}/\text{kg}$ body weight)	308.5	233.6

*Berner J, Shvarev Y, Lagercrantz H, Bilkei-Gorzo A, Hokfelt T, Wickstrom R. 2007. Altered respiratory patten and hypoxic response in transgenic newborn mice lacking the tachykinin-1 gene. J Appl Physiol 102: 552-559.

*<http://phenome.jax.org/db/qp?rtn=views/measplot&brieflook=35101>

> Middaugh LD, Randall CL, Favara JP. Prenatal ethanol exposure in C57 mice: Effects on pregnancy and offspring development. 1988. Neurotoxol Teratol 10(2): 175-180.

^<http://jaxmice.jax.org/support/weight/000664.html>