Resveratrol Subchronic Perinatal Study - Rats

Table 1:   PND 1 Data

Parameter[c,d]	Control	78 mg/kg	156 mg/kg	312.5 mg/kg	625 mg/kg	1250 mg/kg	Trend
Litter Size[a]							
Total (Live and Dead)[j]	8.58 ± 0.56 [19]	8.91 ± 0.50 [22]	8.00 ± 0.78 [13]	7.53 ± 0.76 [19]	7.64 ± 0.99 [11]	8.67 ± 0.54 [18]	0.666-
Live Male + Female[j]	8.58 ± 0.56 [19]	8.86 ± 0.49 [22]	8.00 ± 0.78 [13]	7.53 ± 0.76 [19]	7.64 ± 0.99 [11]	8.67 ± 0.54 [18]	0.703-
Live Males	4.22 ± 0.37 [18]	4.67 ± 0.52 [21]	4.42 ± 0.62 [12]	4.11 ± 0.57 [19]	4.00 ± 0.76 [11]	5.12 ± 0.44 [17]	0.462+
Live Females	4.06 ± 0.36 [18]	4.14 ± 0.48 [21]	3.42 ± 0.57 [12]	3.42 ± 0.45 [19]	3.64 ± 0.36 [11]	3.71 ± 0.53 [17]	0.320-
Total Dead Pups[f,i]	0 [0]	1 [1]	0 [0]	0 [0]	0 [0]	0 [0]	
Total Dead per Litter	0.00 ± 0.00 [19]	0.05 ± 0.05 [22]	0.00 ± 0.00 [14]	0.00 ± 0.00 [19]	0.00 ± 0.00 [11]	0.00 ± 0.00 [18]	0.463-
% Males							
% Male in Dose[e,f]	51.0 [149]	53.0 [185]	56.4 [94]	54.5 [143]	52.4 [84]	58.0 [150]	
% Male per Litter[a]	51.3 ± 2.9 [18]	53.0 ± 5.2 [21]	58.4 ± 6.0 [12]	54.4 ± 4.9 [19]	43.4 ± 7.5 [11]	59.6 ± 4.5 [17]	0.429+
Pup Body Weights[b,g]							
Male	7.33 ± 0.18 [18]	6.83 ± 0.15 [21]	7.29 ± 0.18 [12]	7.10 ± 0.19 [19]	6.84 ± 0.20 [9]	6.78 ± 0.21 [17]	0.062-
Female	6.93 ± 0.17 [18]	6.30 ± 0.17 [20]	6.91 ± 0.19 [11]	6.71 ± 0.19 [18]	6.62 ± 0.29 [11]	6.33 ± 0.24 [16]	0.078-
Total[j]	7.12 ± 0.17 [19]	6.61 ± 0.13 [22]	7.09 ± 0.17 [13]	6.95 ± 0.18 [19]	6.77 ± 0.27 [11]	6.71 ± 0.23 [18]	0.274-
Adjusted Pup Body Weights[b,h]							
Male	7.32 ± 0.14 [18]	6.92 ± 0.14 [21]	7.19 ± 0.17 [12]	6.95 ± 0.12 [19]	6.94 ± 0.18 [9]	6.87 ± 0.16 [17]	0.035-
Female	6.92 ± 0.15 [18]	6.39 ± 0.16 [20]	6.90 ± 0.19 [11]	6.63 ± 0.14 [18]	6.51 ± 0.27 [11]	6.40 ± 0.20 [16]	0.068-
Total[j]	7.16 ± 0.14 [19]	6.70 ± 0.12 [22]	7.04 ± 0.14 [13]	6.83 ± 0.12 [19]	6.67 ± 0.27 [11]	6.77 ± 0.18 [18]	0.106-

a: Each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from Jonckheere's trend test), or with Dunn's test when no trend was present [* = P<0.05, ** = P<0.01]

b: Each dose was compared to the control with Williams' test when a trend was present (P <0.01 from Jonckheere's trend test), or with Dunnett's test when no trend was present [* = P<0.05, ** = P<0.01]

c: Mean ± standard error [number of dams] unless otherwise specified

d: Litters where the male/female pup counts were inconsistent between PND 1 and PND 4 were excluded from the male/female-specific endpoints.

e: 100 x (Number of live males in dose group) / (Number of live males and females in dose group) [Number of pups]

f: No statistics were performed on this endpoint

g: Litter weight of live pups at PND 1 / Live litter size on PND 1

h: (Litter weight of live pups at PND 1 / Live litter size on PND 1) to obtain a mean pup weight per litter. Mean values are then adjusted using live litter size on PND 1 as a covariate.

i: Number of dead pups in dose [Number of litters with dead pups]

j: Dams that had differing total counts on PND 1 and PND 4 not included.