

Piecing Together Human Adult Comparative Pharmacokinetic Trials and Rodent Studies: What Happens to Drug Clearance in Obesity?

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Table 1s. Studies in rodents that used high calorie diets or chemical means to study effects of obesity.

Species	Sex	Diet, high calorie component	Duration of feeding	Weight gain relative to controls, %
Mice, C57Bl/6J (84)	Male	HFD 60% kcal	13 wk	35
Mice, C57Bl/6 (85)	Male	HFD 40% w/w beef tallow	19 wk	41
Mice, C57Bl/6 (86)	Male	HFD 60% kcal	12 wk	-
Mice, Tg-CYP2D6 (87)	Male	HFD 42% kcal	18 wk	38
Mice, New Zealand black (88)	Male	HFD 15% w/w	4 wk	21
Mice, CD1 (89)	Male	HFD 60% kcal	14 wk	61
Mice, C57Bl/6J (90)	Male	HFD 38% kcal	6 wk	11
Mice, C57Bl/6 (91)	Male	HFD 60% kcal	8 wk	48
Mice, C57Bl/6 (92)	Male	HFD 60% kcal	6 wk	34
Mice, ICR (93)	Female	High fructose syrup 44% w/w	8 wk	22
Mice, C57Bl/6 (94)	Female	HFD 60% kcal	10 wk	51
NMRI mice (83, 95)	Male	MSG sc for first week after birth; fed standard chow	8 mo	38
CrI:OP(CD) obese-prone (109)	Male	HFD 45% kcal	12 wk	23
Rat, CrI:OP(CD) obese-prone (111)	Male	HFD 60% kcal	6 wk	5.1
Rat, dietary-obese sensitive and resistant (114)	Male	HFD 33% kcal	12 wk	31
<i>Table 1. continues...</i>				
Rat, Sprague-Dawley (110)	Male	HFD 46.4% kcal	16 wk	23
Rat, Sprague-Dawley (115)	Male	HFD 60% w/w	16 wk	39
Rat, Sprague-Dawley (141)	Male	HFD 60% w/w	14 mo	55
Rat, Sprague-Dawley (96)	Female	HFD 45% kcal	14 wk	20
Rat, Sprague-Dawley (96-99)	Male	HFD 45% kcal	14 wk	25.5
Rat, Sprague-Dawley (97-99)	Male	HFCS 0.47 kcal/g in drinking water	14 wk	12.5
Rat, Sprague-Dawley (97-99)	Male	HFD 45% kcal and HFCS 0.47 kcal/mL in drinking water	14 wk	26
Rat, Sprague-Dawley (100)	Male	HFD 60% w/w shortening	52 wk	44
Rat, Sprague-Dawley (102)	Male	HFD 60% w/w	22 wk	32
Rat, Sprague-Dawley (103)	Male	HFD 60% w/w	5 to 11 mo	55
Rat, Sprague-Dawley (104)	Female	HFD 42.8% kcal	13 wk	6.7
Rat, Sprague-Dawley (105)	Male	HFD 60% w/w	12 wk	32
Rat, Sprague-Dawley (106)	Male	HFD 60% w/w	24 wk	54
Rat, Sprague-Dawley (107)	Male	HFD 55% w/w	39 wk	30
Rat, Sprague-Dawley	Male	HFD 80% kcal	40 wk	50
Rat, unspecified albino (112)	Male	HFD 21.4% w/w	12 wk	Not stated
Rat, Wistar Hannover (101)	Male	HFD 60% w/w	8 wk	NA
Rat, Wistar (113)	Male	HFD 47% kcal	8 wk	25
Rat, Wistar (116)	Male	HFD 58% w/w lard	8 wk	5.9
Rat, Wistar (157)	Male	HFD 68.3% kcal	10 wk	36
Rat, Wistar (149)	Male	HFD 49% kcal	8 wk	16
Zucker +/+ (108)	Male	HFD 8.6% w/w	12 wk	6.4
Zucker fa/fa obese (108)	Male	Standard diet	12 wk	25

Abbreviations: HFD, high fat diet; HFCS, high fructose corn syrup; MSG, monosodium glutamate; sc, subcutaneously; wk, weeks; mo, months