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Table 1. Summary and references for background literature addressing correlations between food restriction and pubertal development.

Food Restriction % Control	Sex	Age	Duration	Reproductive Effects	Ref. (Author)
Litter enlargement M-↓30% bw F-↓32%	male and female	prepubertal d2-wean	20 days	delay PPS	Engelbregt et al., 2001.
34% of con diet	female	prepubertal	~ 9 weeks	delay VO	Messer and Anson, 2000.
Standardized litters (8) vs. natural litters, SM ↓ 9.5%, SF ↓ 9.0%	both, rat	PND3 cull	Prepubertal	No change in PPS or VO	Stoker et al., 2000a
decrease bw gain 15%, pairfed control	male rat	pubertal	31 days	delayed PPS 2 days	Stoker et al., 2000b
decrease bw gain 9.1%, pairfed control	female rat	pubertal	20 days	no delay in VO	Laws et al., 2000
Starvation for 4 days	male rat	prepubertal/ pubertal	~5 days	↓ Testosterone	Perheentupa et al., 1995.
90, 85, 79, and 74% of con bw	Male SD rats	Adult	15 day	74%↓ in bw ↓liver, epi, & VP wt, ↓T, T3, T4, TSH	O'Connor et al., 2000
90, 80, & 70% of con BW	both in mice	adult	17 weeks	Ovary wt - 70% group; no effect on: VP, SV, testis, epi	Chapin et al., 1993.

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Food Restriction % Control	Sex	Age	Duration	Reproductive Effects	Ref. (Author)
90, 80, & 70% of con BW	male and female mice	adult	21 weeks	SV- 80% & 70%, and VP & testis - 70%; ovary wt - 80% & 70% groups	Chapin et al., 1993.
Enough to maintain a certain bw 75g (at puberty, 50% of con BW)	female	prepubertal	~45 days	Hormones: ↓LH ↓FSH ↓Prl ↓GH	Bronson and Heideman, 1990.
Enough to maintain a certain bw 75g (at puberty, 50% of con BW)	female	prepubertal	17 weeks	VO and FO	Bronson, 1987.
30, 45, & 60% of 60-day bw	both in mice, male rats	prepubertal - adult	~ 9 weeks	ovary & uterus wt; testis & seminal vesicles	Hamilton and Bronson, 1986
30% of normal intake	male rat	prepubertal(PP), pubertal(P), & adult(A)	~18 weeks	prostate wt- P; seminal vesicles wt- PP, P, & A; testis wt- PP & P	Glass and Swerdloff, 1984
Litters of 12 or 8, ↓bw 25% of con bw at 20 days in 12/ litter	Wistar rats	Postnatal	Postwean on	No change in VO or PPS	Aguilar et al, 1984.
↓50% of con bw	Female SD rats	post weaning	chronic	VO at 227 days of age	Merry & Holehan, 1979 sim to 1985
Changed litter sizes, day 20 ↓13% and 32%	Female CR rats	Newborn, altered litter numbers	preweaning nutrition	No change in VO	Ronnekleiv, Ojeda & McCann, 1978

Food Restriction % Control	Sex	Age	Duration	Reproductive Effects	Ref. (Author)
Normal litters, food restriction to stop growth at wean	Female rats	Postweaning	Postwean to 65 days	Delayed VO 10 days, estrous cycle disrupted	Kennedy & Mitra, 1963.
50% of con bw at puberty from litter manipulations	Female rats	Postnatal litter size, large vs 3/litter	Postnatal on	Delayed VO 10 days	Widdowson and McCance, 1960.
50% ↓ from con bw, litters large and small (3)	Female rats	Postnatal litter size	Postnatal on	Delayed VO 10 days	Kennedy & Mitra, 1957.

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