

## 212. Drug content of rat livers

Cook, R.D. and Weisberg, S. (1982) *Residuals and influence in regression*. London: Chapman and Hall.

In an experiment to investigate the amount of a drug retained in the liver of a rat, 19 rats were weighed and dosed. The dose was approximately 40 mg per 1 kg of body weight, since liver weight is known to be strongly correlated with body weight. After a fixed length of time the rat was sacrificed, the liver weighed, and the percentage of the dose in the liver was determined.

Body wt (gm)	Liver wt (gm)	Dose (gm $\times 10^{-4}$ )	Dose in liver (gm $\times 10^{-4}$ )
176	6.5	0.88	0.42
176	9.5	0.88	0.25
190	9.0	1.00	0.56
176	8.9	0.88	0.23
200	7.2	1.00	0.23
167	8.9	0.83	0.32
188	8.0	0.94	0.37
195	10.0	0.98	0.41
176	8.0	0.88	0.33
165	7.9	0.84	0.38
158	6.9	0.80	0.27
148	7.3	0.74	0.36
149	5.2	0.75	0.21
163	8.4	0.81	0.28
170	7.2	0.85	0.34
186	6.8	0.94	0.28
146	7.3	0.73	0.30
181	9.0	0.90	0.37
149	6.4	0.75	0.46