

Table 1.4 Regression models.

Outcome	Regression model	Effect estimate	Chapter
Continuous data	Linear regression	Regression coefficient, $\hat{\beta}$	4
Nominal data			
Two categories	Logistic regression	Odds ratio, $\widehat{OR} = e^{\hat{\beta}}$	3
>Two categories	Multinomial logistic regression	Odds ratio, $\widehat{OR} = e^{\hat{\beta}}$	3
Ordinal data	Ordinal logistic regression	Odds ratio, $\widehat{OR} = e^{\hat{\beta}}$	3
Count data	Poisson regression	Rate ratio, $\widehat{RR} = e^{\hat{\beta}}$	6
Time to event data	Cox regression	Hazard ratio, $\widehat{HR} = e^{\hat{\beta}}$	5
	Poisson regression	Incidence rate ratio, $\widehat{IRR} = e^{\hat{\beta}}$	6