

Outcome (dependent variable): Cured (cured [1] or not cured [0])

Predictor (independent variable): Intervention (intervention [1] or no treatment [0])

Categorical Variables Codings

		Frequency	Parameter coding
			(1)
Intervention	No Treatment	56	.000
	Intervention	57	1.000

Variables in the Equation

		B				Sig.	95% C.I. for EXP(B)		
			S.E.	Wald	df		Exp(B)	Lower	Upper
Step 1 ^a	Intervention	1.229	.400	9.447	1	.002	3.417	1.561	7.480
	Constant	-.288	.270	1.135	1	.287	.750		

a. Variable(s) entered on step 1: Intervention.

The odds of a patient being cured given that they DID NOT received treatment

$$P(\text{cured}) = \frac{1}{1 + e^{-(b_0 + b_1 X_1)}} \\ P(\text{not cured}) = \frac{1}{1 + e^{-[-0.288(1.299 \times 0)]}} \\ = 0.428$$

$$P(\text{not cured}) = 1 - P(\text{cured}) \\ = 1 - 0.428 \\ = 0.572$$

$$\text{odds} = \frac{0.428}{0.572} \\ = 0.748$$

The odds of a patient being cured given that they received treatment

$$P(\text{cured}) = \frac{1}{1 + e^{-(b_0 + b_1 X_1)}} \\ P(\text{not cured}) = \frac{1}{1 + e^{-[-0.288(1.299 \times 1)]}} \\ = 0.719$$

$$P(\text{not cured}) = 1 - P(\text{cured}) \\ = 1 - 0.719 \\ = 0.281$$

$$\text{odds} = \frac{0.719}{0.281} \\ = 2.559$$

Proportionate change in odds or odds ratio

$$\Delta \text{ odds} = \frac{\text{odds after a unit change in the predictor}}{\text{original odds}} \\ = \frac{2.56}{0.75} \\ \text{Exp}(B) = 3.41$$