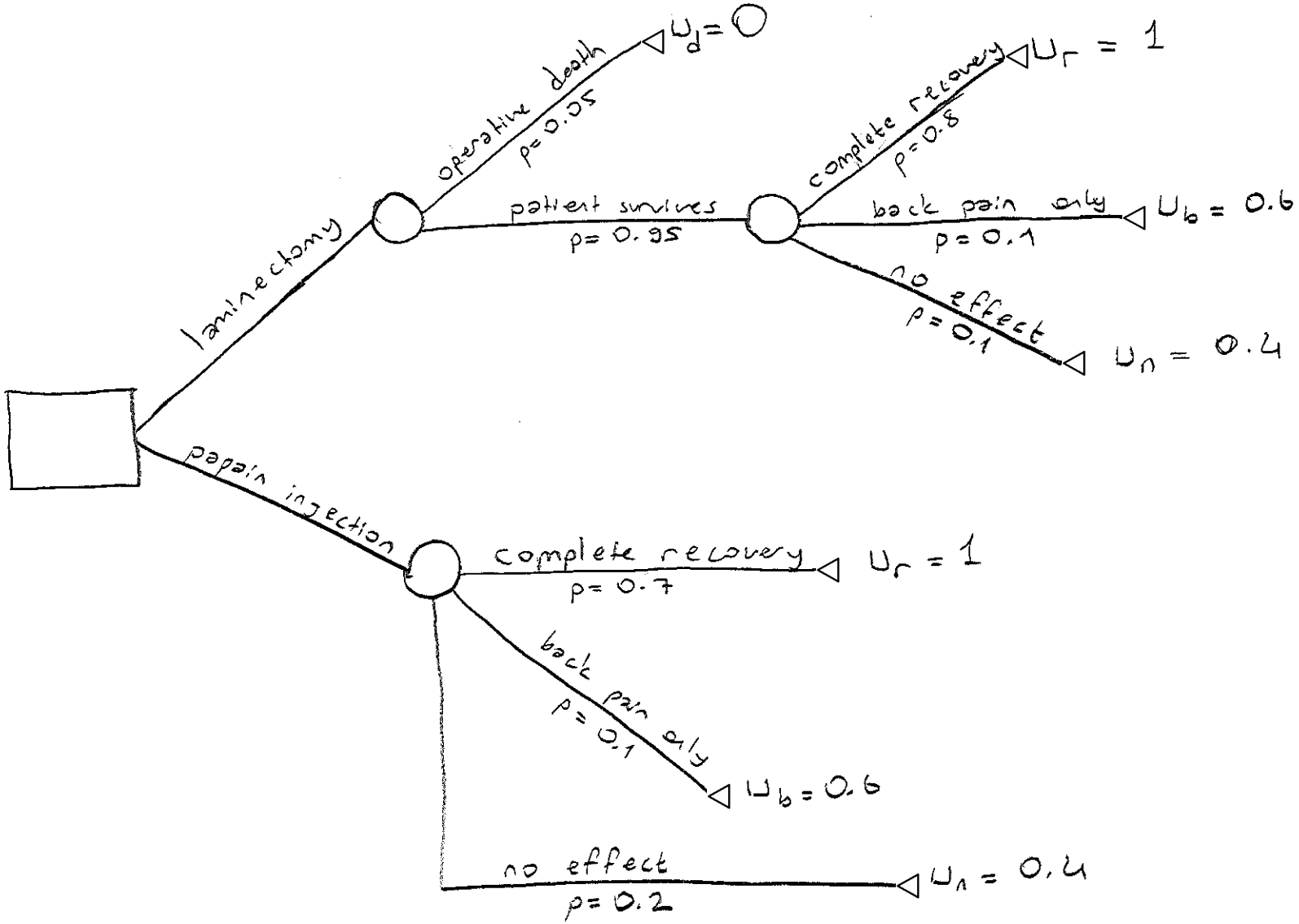


$$U_{laminectomy} = (0.05)(U_d) + (0.95)[(0.8)U_r + (0.1)U_b + (0.1)U_n]$$

$$= 0.855$$

$$U_{papain} = (0.7)U_r + (0.1)U_b + (0.2)U_n = 0.840$$

## One-way Sensitivity Analysis

- Say we want to observe how utility of each treatment method changes when the utility of lifetime of back pain and footdrop changes.
- So, $U_n = x$, we will change and see the effect of varying x.
- Write utility of each treatment as a function of x:

$$U_{laminectomy}(x) = (0.05)(U_b = 0) + (0.95)\left[(0.8)(U_r = 1) + (0.1)(U_b = 0.6) + (0.1)(U_n = x)\right]$$

$$= (0.817) + (0.095)x$$

$$U_{papain}(x) = (0.7)(U_r = 1) + (0.1)(U_b = 0.6) + (0.2)(U_n = x)$$

$$= (0.76) + (0.2)x$$