Table E3: Results of Deterministic Sensitivity Analyses and Scenario Analyses

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| --- | --- | --- | --- | --- | --- |
|  | Model Parameter changed | Value | ICER | % Change of parameter | % Change ICER |
| Probability of mortality with ECMO (M\_ECMO)using treatment effect (RR) of ECMO determined by high and low 95% CI values  | RR Defined by High 95% CI | 0.41 | $56,410 | +26% | +57% |
| Base Case | 0.33 | $36,000 | - | - |
| RR Defined by Low 95% CI | 0.26 | $28,420 | -21% | -21% |
| Probability of mortality with ECMO and Mechanical Ventilation using analyses reported by Zampieri et al. 2013 | Analysis 1 | M\_ECMO | 0.36 | $49,852 | +9% | +38% |
| M\_MV | 0.49 | -5% |
| Analysis 2 | M\_ECMO | 0.32 | $42,373 | -3% | +17% |
| M\_MV | 0.47 | -9% |
| Analysis 3 | M\_ECMO | 0.33 | $36,411 | 0% | +1% |
| M\_MV | 0.51 | -2% |
| Base Case | M\_ECMO | 0.33 | $36,000 | - | - |
| M\_MV | 0.52 | - |
| Probability of mortality with ECMO and Mechanical Ventilation using EOLIA ITT analysis | M\_ECMO | 0.35 | $60,008 | +6% | +67% |
| M\_MV | 0.46 | -11% |
| Costs  | 50% increase to all costs | - | $54001 | +50% | +50% |
| Base case | - | $36,000 | - | - |
| 20% decrease to all costs | - | $28,800 | -20% | -20% |
| Discount Rate | No discounting | 0% | $28,663 | -100% | -20% |
| Base Case | 1.5% | $36,000 | - | - |
| Higher discount rate | 3% | $44,183 | +100% | +22% |
| Utility Values for 6 and 12 months after hospitalization defined by their high and low 95% CI | High 95% CI | U\_6mos | 0.79 | $35,632 | +20% | -1% |
| U\_12mos | 0.78 | +14% |
| Base Case | U\_6mos | 0.66 | $36,000 | - |  |
| U\_12mos | 0.68 | - |
| Low 95% CI | U\_6mos | 0.53 | $36377 | -20% | +1% |
| U\_12mos | 0.58 | -14% |
| Time horizon | 5 year | - |  | $198,601 | n/a | n/a |
| 10 year | - |  | $99,438 | n/a | n/a |