# Table 1 Model Parameters Values: Baseline, Ranges and Distributions for Sensitivity Analysis

| **Parameter** | **Base Case Value** | **Minimum Value** | **Maximum Value** | **Source** | **Distribution** |
| --- | --- | --- | --- | --- | --- |
| \*\*Cost (Per Cycle)\*\* |  |  |  |  |  |
| FOLFOX | 656.31 | 525.04 | 787.57 |  | GAMMA(100.00, 6.56) |
| FOLFIRI | 673.26 | 538.61 | 807.91 |  | GAMMA(100.00, 6.73) |
| Bevacizumab | 1517.69 | 1214.15 | 1821.23 |  | GAMMA(100.00, 15.18) |
| Subtyping Test Cost | 400.00 | 320.00 | 480.00 |  | GAMMA(100.00, 4.00) |
| Administration Cost | 1927.72 | 1542.18 | 2313.26 |  | GAMMA(100.00, 19.28) |
| \*\*Adverse Event Cost\*\* |  |  |  |  |  |
| Leukopenia | 4188.31 | 3350.65 | 5025.97 |  | GAMMA(100.00, 41.88) |
| Diarrhea | 1982.68 | 1586.14 | 2379.22 |  | GAMMA(100.00, 19.83) |
| Vomiting | 1307.72 | 1046.18 | 1569.26 |  | GAMMA(100.00, 13.08) |
| \*\*Adverse Event Incidence - With Bevacizumab\*\* |  |  |  |  |  |
| Leukopenia | 0.03 | 0.03 | 0.04 |  | BETA(96.64, 2805.43) |
| Diarrhea | 0.05 | 0.04 | 0.06 |  | BETA(94.65, 1693.63) |
| Vomiting | 0.03 | 0.03 | 0.04 |  | BETA(96.64, 2805.43) |
| \*\*Adverse Event Incidence - Without Bevacizumab\*\* |  |  |  |  |  |
| Leukopenia | 0.02 | 0.02 | 0.02 |  | BETA(98.09, 5100.34) |
| Diarrhea | 0.16 | 0.13 | 0.19 |  | BETA(83.94, 443.99) |
| Vomiting | 0.16 | 0.13 | 0.19 |  | BETA(83.94, 443.99) |
| \*\*Adverse Event Incidence - Second Line\*\* |  |  |  |  |  |
| Leukopenia | 0.01 | 0.01 | 0.01 |  | BETA(99.05, 10456.81) |
| Diarrhea | 0.13 | 0.10 | 0.16 |  | BETA(86.76, 575.07) |
| Vomiting | 0.12 | 0.10 | 0.14 |  | BETA(87.86, 643.03) |
| \*\*Utility (Per Cycle)\*\* |  |  |  |  |  |
| Progression Free Survival | 0.85 | 0.68 | 1.00 |  | BETA(15.41, 2.72) |
| Overall Survival | 0.65 | 0.52 | 0.78 |  | BETA(32.96, 17.75) |
| \*\*Adverse Event Disutility\*\* |  |  |  |  |  |
| Leukopenia | 0.45 | 0.36 | 0.54 | BRTYA | alpha\_u\_AE1, beta\_u\_AE1 (54.55, 66.67) |
| Diarrhea | 0.19 | 0.15 | 0.23 | BETA | alpha\_u\_AE2, beta\_u\_AE2 (80.81, 344.51) |
| Vomiting | 0.36 | 0.29 | 0.43 | BETA | alpha\_u\_AE3, beta\_u\_AE3 (63.64, 113.14) |
| \*\*Hazard Ratios\*\* |  |  |  |  |  |
| PFS to OS under the Experimental Strategy | 0.68 | 0.53 | 0.87 | [@smeets2018] | rlnorm() |
| PFS to Dead under the Experimental Strategy | 0.65 | 0.49 | 0.86 | [@smeets2018] | rlnorm() |
| \*\*Probability of Dying under Second-Line Treatment\*\* | 0.17 | 0.12 | 0.22 |  | BETA(36.69, 179.13) |
| \*\*Discount Rate\*\* |  |  |  |  |  |
| Costs | 0.00 | 0.00 | 0.08 |  |  |
| Outcomes | 0.00 | 0.00 | 0.08 |  |  |