Homework 4: Markov Model in R

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Table 1. Costs and QALYs for each of the treatment strategies

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Without Treatment** | **With Treatment but no End-of-Life Care** | **With Both Treatment and end of life care** |
| **Cost** | 9,331,448 | 16,210,620 | 17,766,812 |
| **QALY** | 7,755.95 | 8,624.74 | 8,993.78 |

Table 2. League Table Comparing ICERs across the Three Treatment Strategies

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Without Treatment** | **With Treatment and No End-of-Life Care** | **With Both Treatment and end of life care** |
| **Without Treatment** | NA | $7,918.14 | $6,814.67 |
| **With Treatment and No End-of-Life Care** | $7,918.14 | NA | $4,216.88 |
| **With Both Treatment and end of life care** | $6,814.67 | $4,216.88 | NA |

Figure 1. ICER Comparing the Treatment Strategies of With Treatment and No End-of-Life Care versus Without Treatment using a Willingness to Pay Threshold of $20,000/QALY

A graph of a function

Description automatically generated

Figure 2. ICER Comparing the Treatment Strategies of With Both Treatment and End of Life Care versus Without Treatment using a Willingness to Pay Threshold of $20,000/QALY

A graph with a dotted line

Description automatically generated

Figure 3. ICER Comparing the Treatment Strategies of With Both Treatment and End of Life Care versus With Treatment and No End-of-Life Care using a Willingness to Pay Threshold of $20,000/QALY

A graph of a number of numbers

Description automatically generated with medium confidence