

Supplemental material to “Sample size allocation to regions in multiregional dose-finding study using MCP-Mod”

1 Probability of consistency by true dose-response model

Figure A1 shows the probability of consistency by true dose-response model: local consistency, simultaneous consistency and consistency in maximum absolute difference.

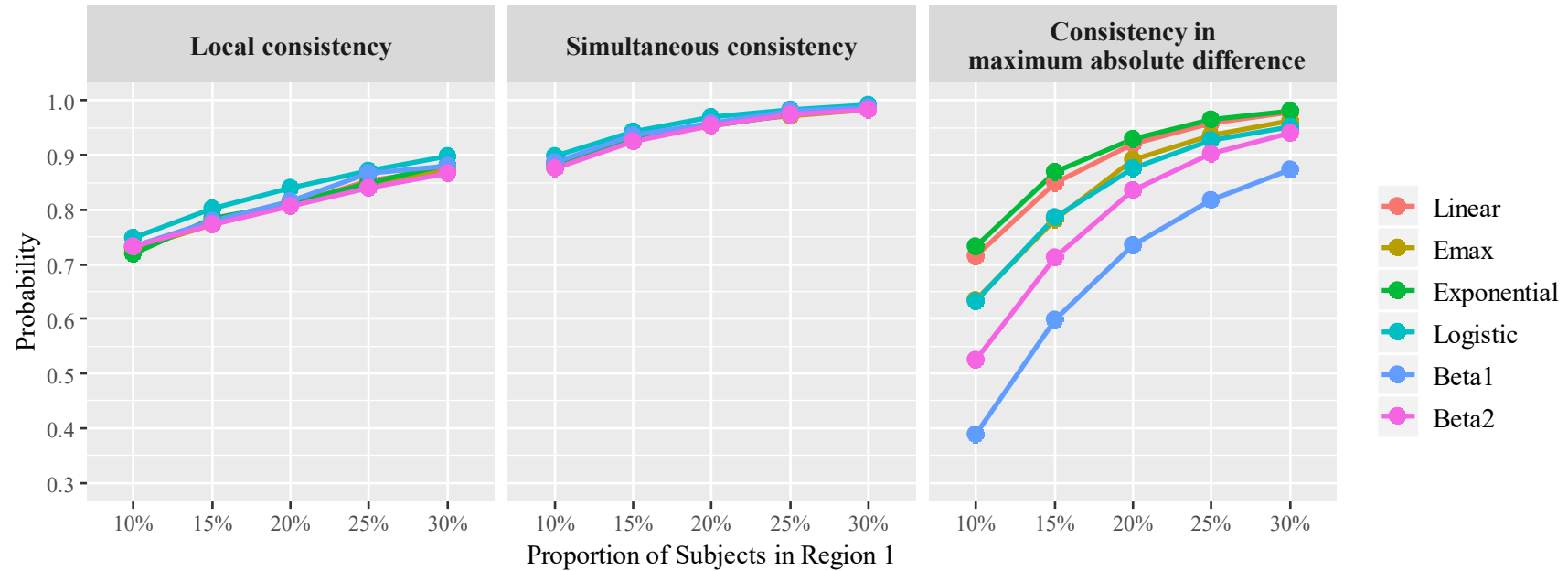


Figure A1. Probability of consistency with the mean summary function: Local consistency in contrast statistics with $\pi = 0.5$ (left panel), Simultaneous consistency in contrast statistics (central panel), and Consistency in maximum absolute difference for $\delta = 0.4$ (right panel).

2 Summary measures of dose-response curve by true dose-response model

Figure A2 shows heat maps of proportions of MED categories for the entire population and Region 1 by true dose-response models. Figure A3.1-A3.6 show the heat maps of proportions of MED cross-categories for the entire population and Region 1 by true dose-response models. Figure A4 shows the probability that the MED of Region 1 was the same, higher or lower as that for the entire population by true dose-response models.

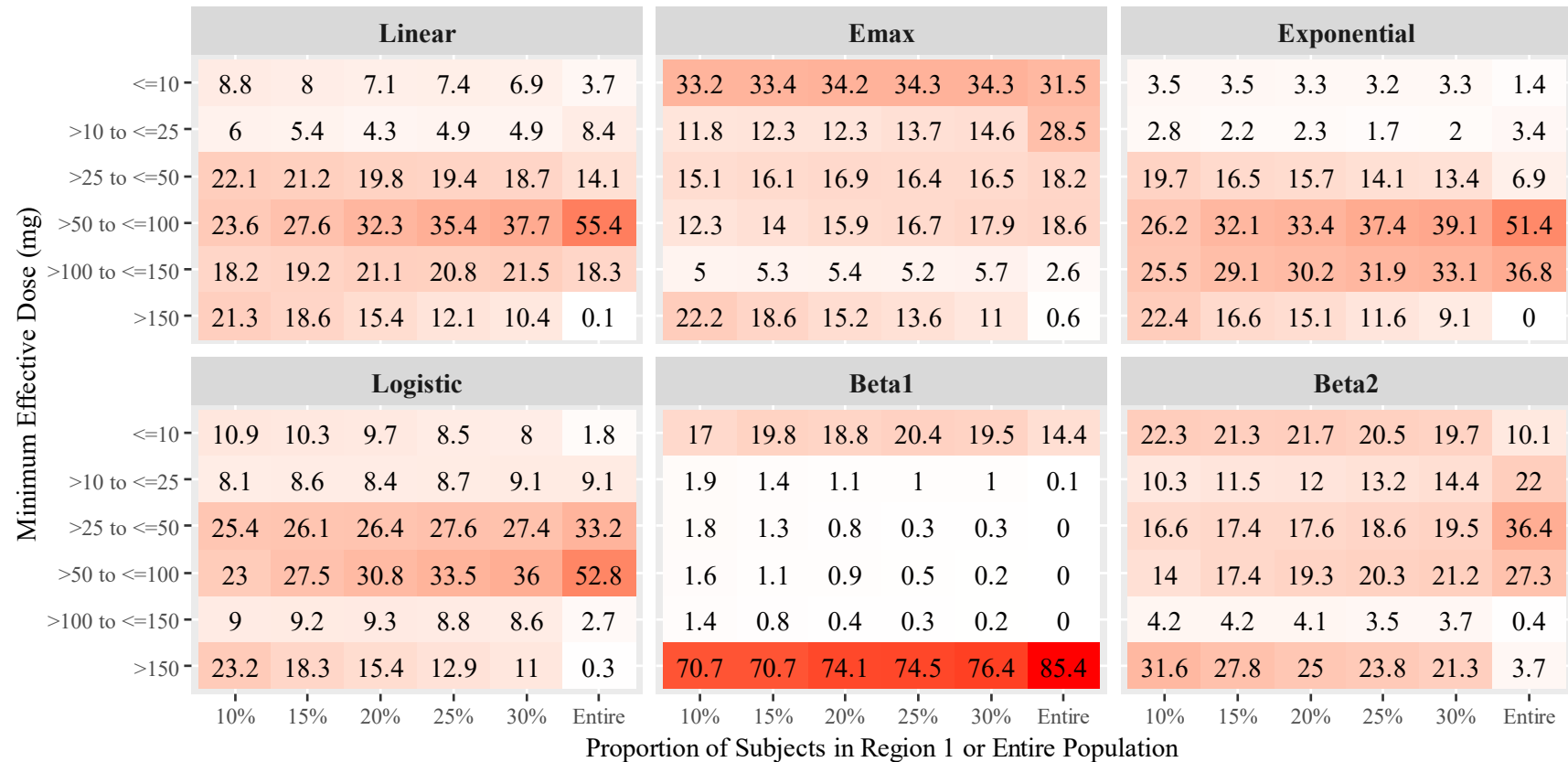


Figure A2. Proportion in MED categories (%) for entire population and Region 1, by true dose-response model.

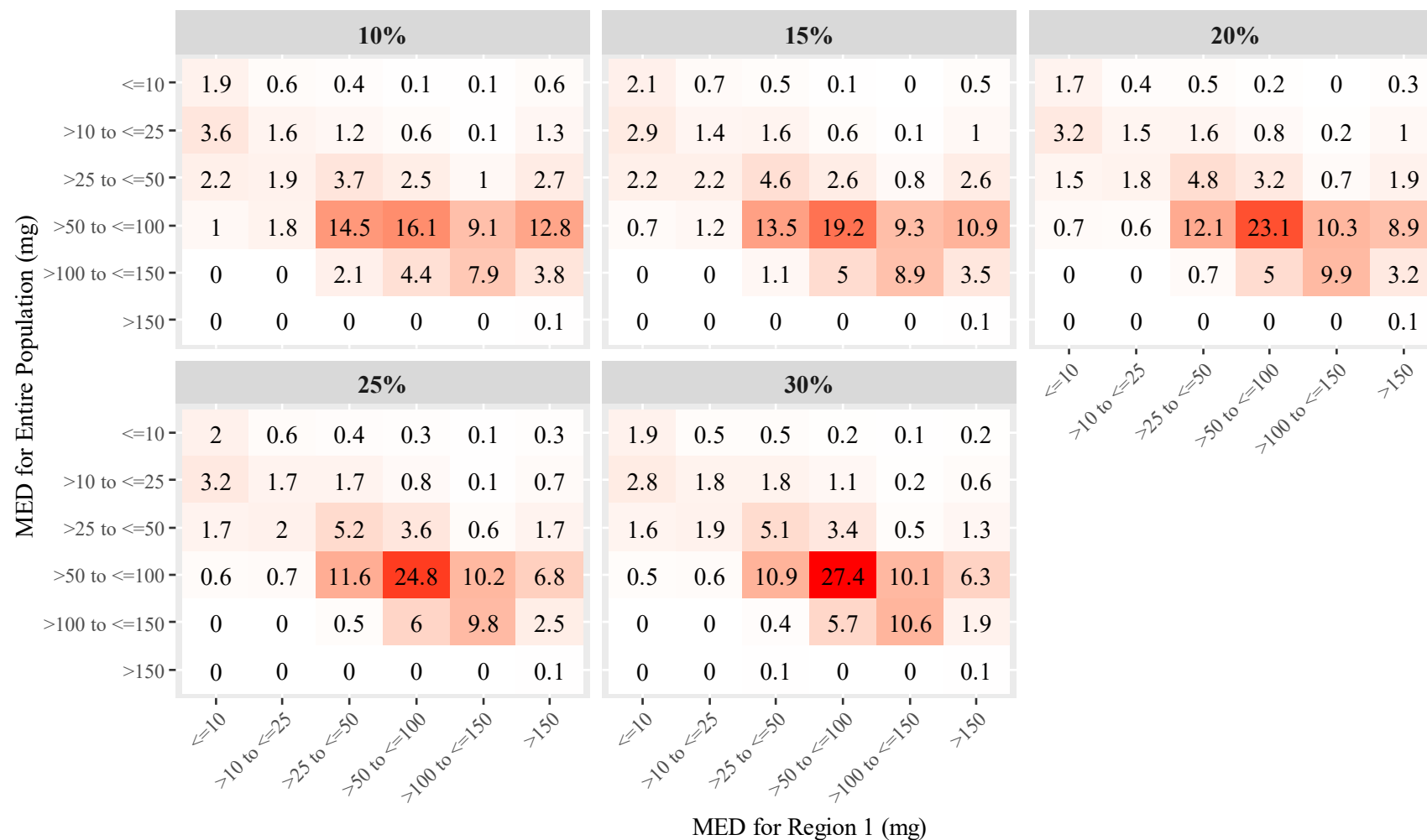


Figure A3.1. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Linear.

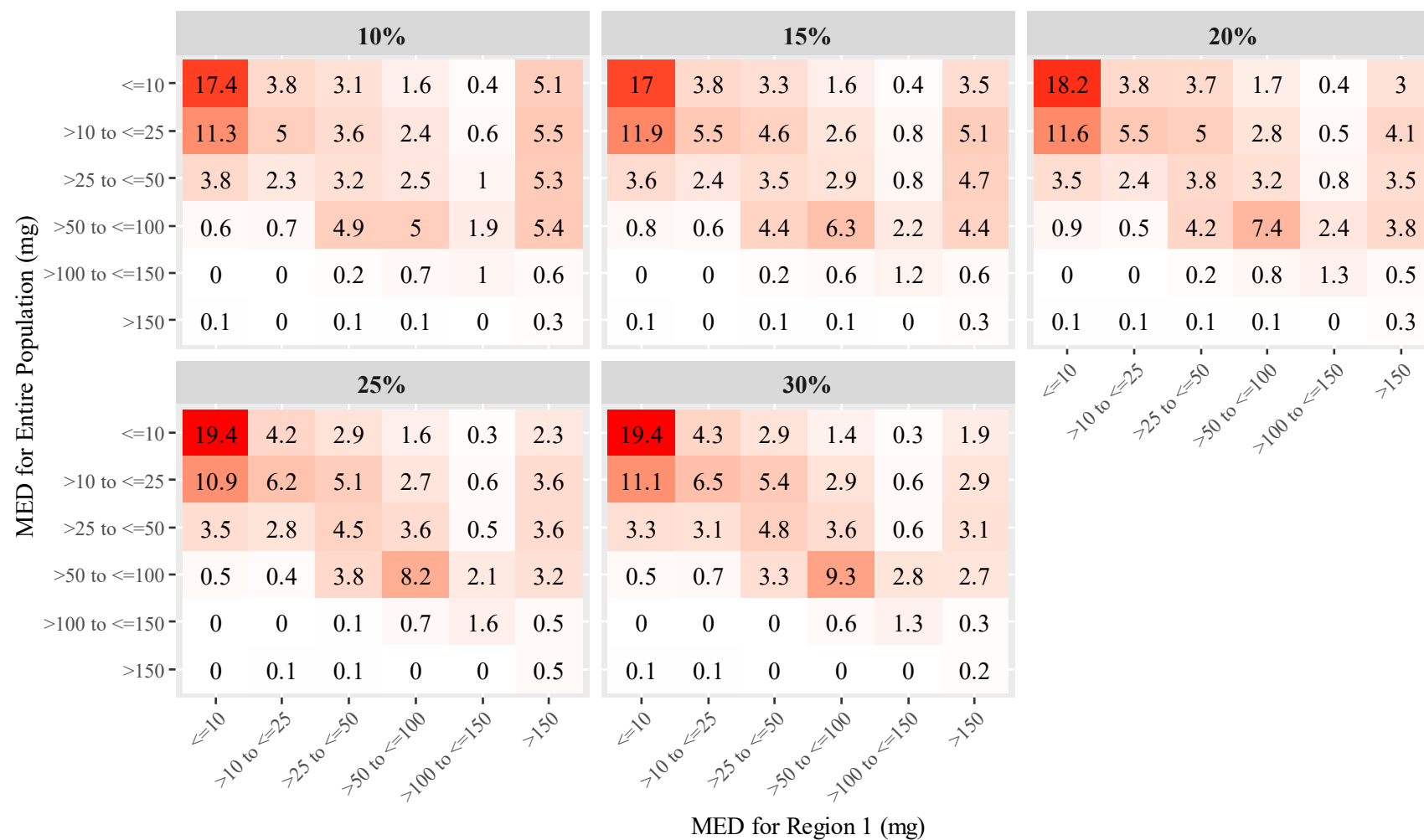


Figure A3.2. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Emax.

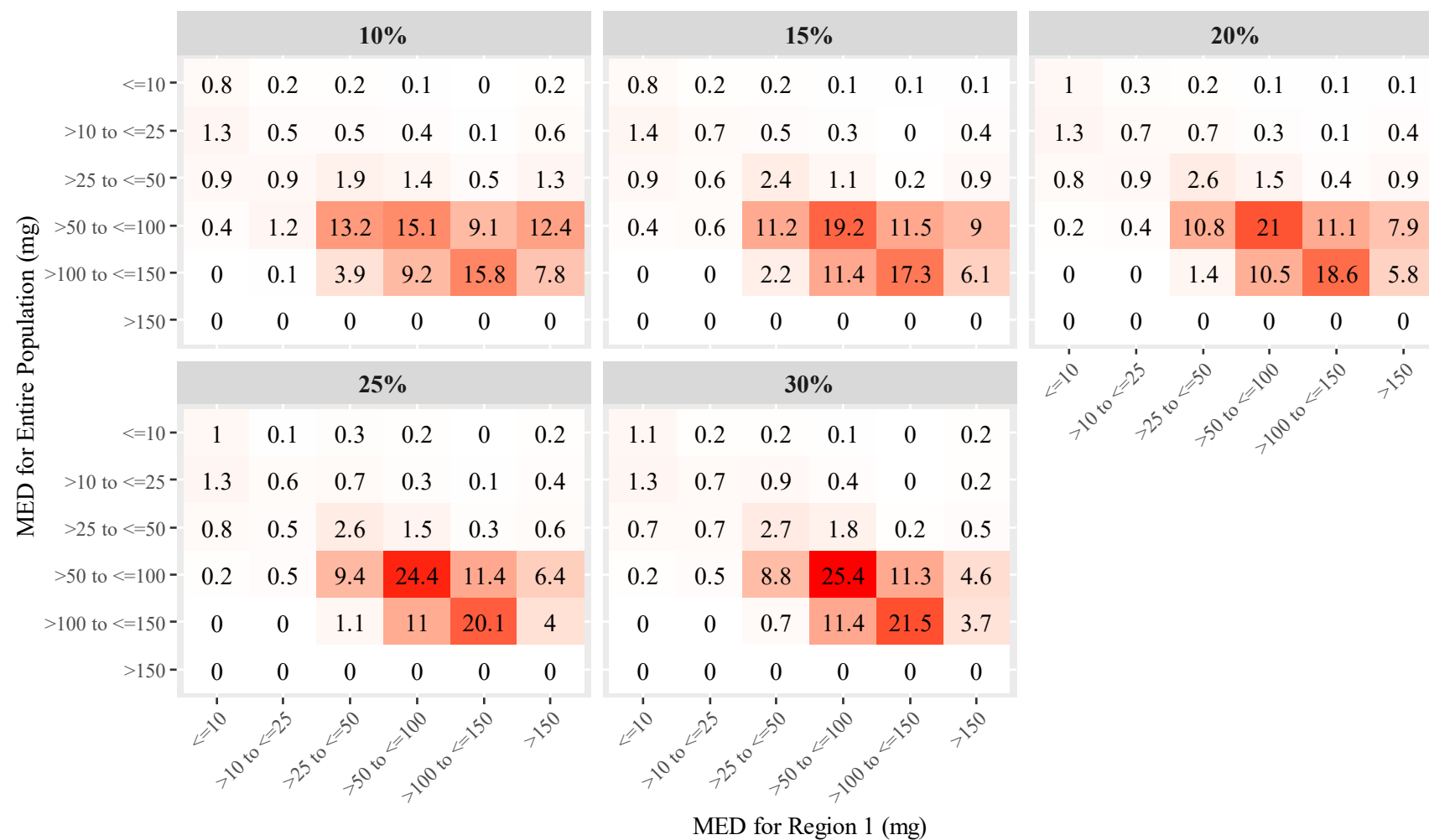


Figure A3.3. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Exponential.

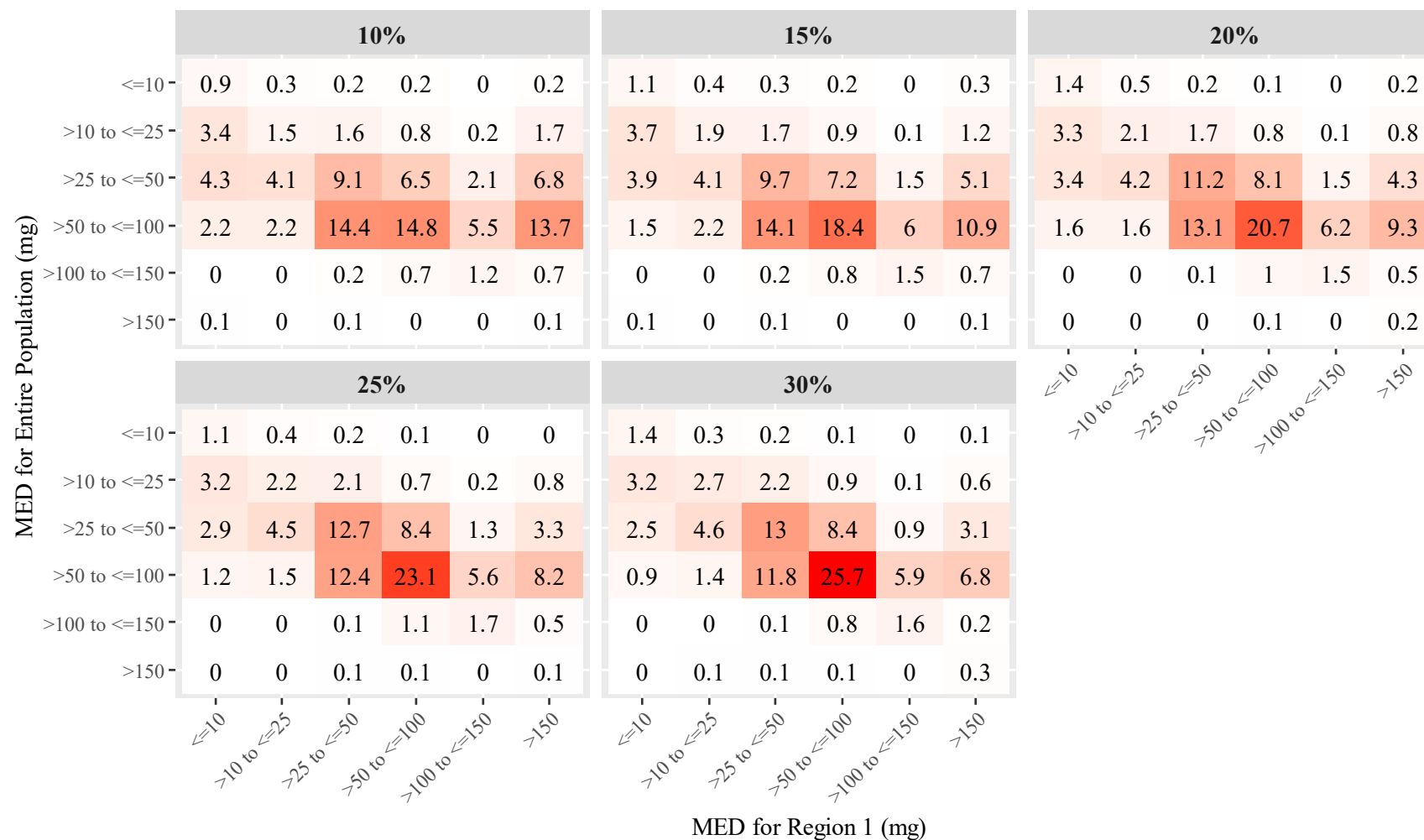


Figure A3.4. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Logistic.

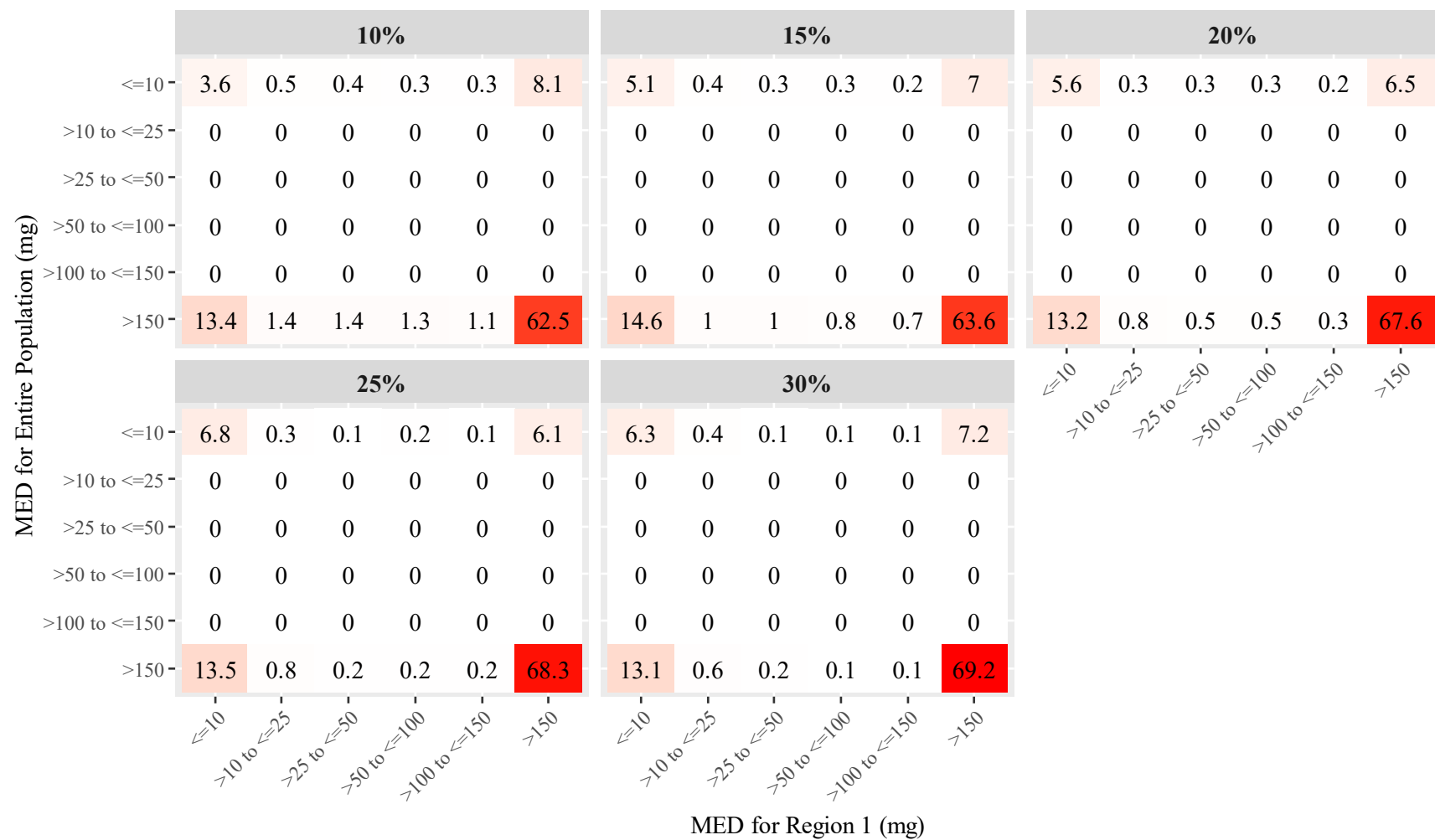


Figure A3.5. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Beta1.

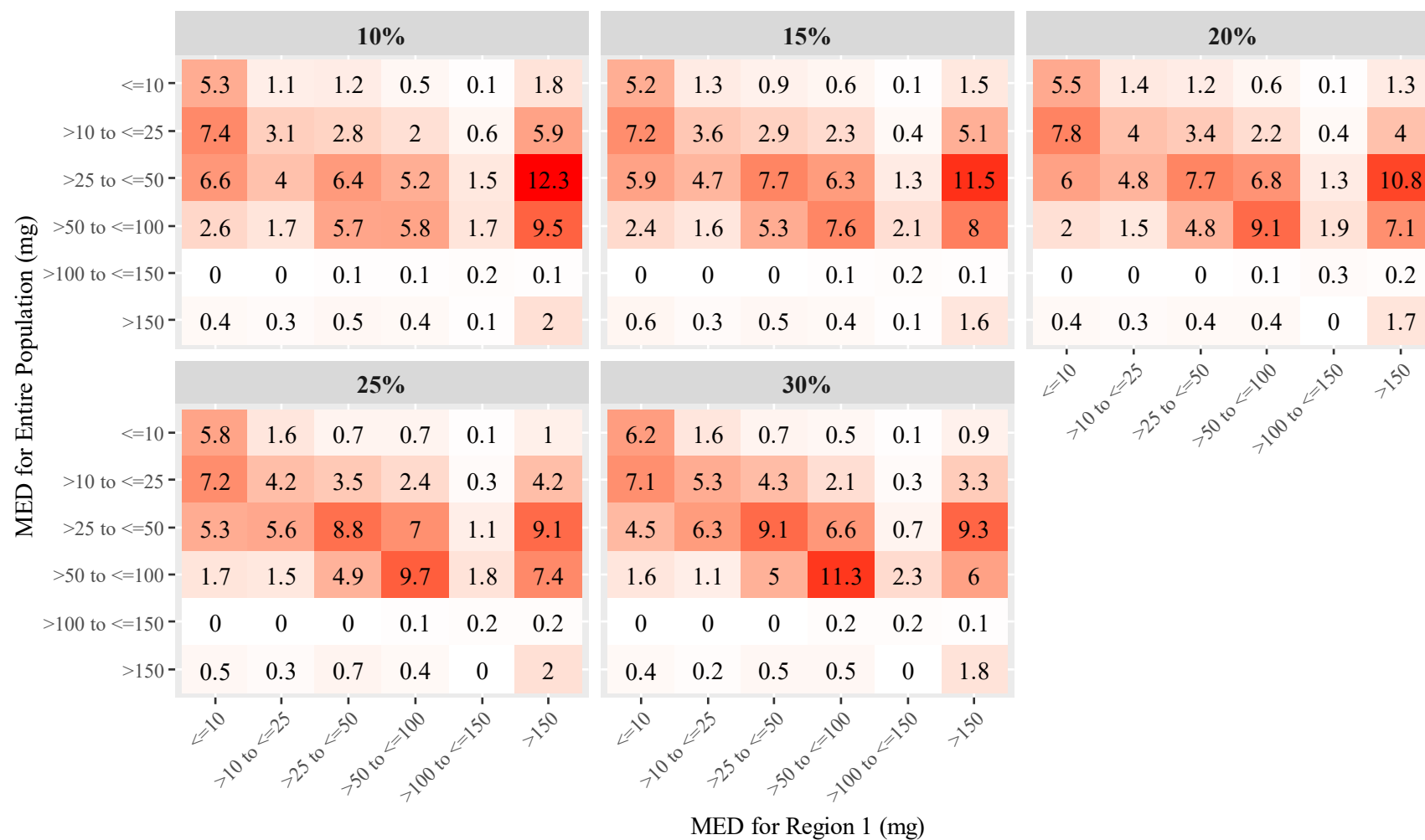


Figure A3.6. Proportion in MED cross-categories (%) for entire population and Region 1: true dose-response model = Beta2.

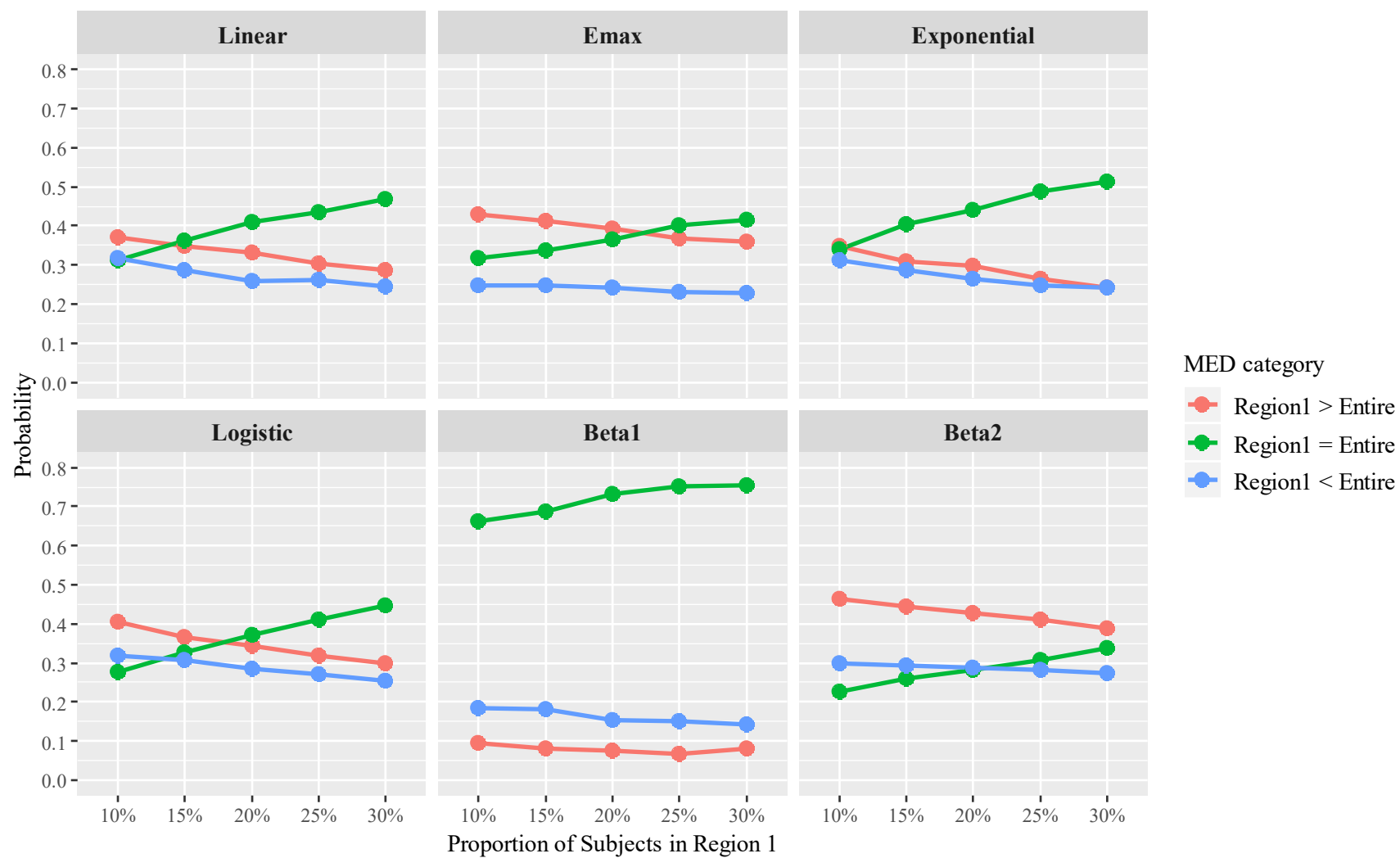


Figure A4. Probability that the MED of Region 1 was the same, higher or lower as that for the entire population, by true dose-response model.