**Supplement**

Evaluating the cost utility of racecadotril in addition to oral rehydration solution versus oral rehydration solution alone for children with acute watery diarrhea in four low middle-income countries: Egypt, Morocco, Philippines and Vietnam.

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# Clinical Evidence

Table 1: Clinical parameters from original core model and retained in all country adaptations.

|  |  |  |
| --- | --- | --- |
| Parameter | Mean | Source |
| Outpatient care |  |  |
| Proportion on ORS whose diarrhea resolves at 48 hrs | 26% | Lehert |
| Proportion on ORS whose diarrhea does not resolve at 48 hrs | 74% | Calculated |
| Proportion on R+ORS whose diarrhea resolves at 48 hrs | 58% | Lehert |
| Proportion on R+ORS whose diarrhea does not resolve at 48 hrs | 42% | Calculated |
| Inpatient care |  |  |
| Proportion on ORS referred for inpatient stay at 48 hrs | 36% | Alvarez Calatayud |
| Proportion on ORS not referred for inpatient stay at 48 hrs | 64% | Calculated |
| Proportion on R+ORS referred for inpatient stay at 48 hrs | 6% | Alvarez Calatayud |
| Proportion on R+ORS not referred for inpatient stay at 48 hrs | 94% | Calculated |
| Adverse events |  |  |
| Proportion on ORS experiencing adverse events | 16% | Baumer |
| Proportion on R+ORS experiencing adverse events | 12% | Baumer |
| Quality of Life (Utility) |  |  |
| Average utility under 5 yrs, primary care/outpatient setting | 0.7345 | Martin |
| Average utility under 5 yrs, secondary care/inpatient setting | 0.6145 | Martin |
| Average utility "well" child (no diarrhea) | 0.9400 | Kind |

The reader is referred to a full description and justification of this evidence in Rautenberg 2012.

# Sensitivity Analysis

The reader is referred to a full description of the robustness of the model in Rautenberg 2017 and Rautenberg 2018.

Figure 1: Tornado diagram of univariate sensitivity analysis, Egypt

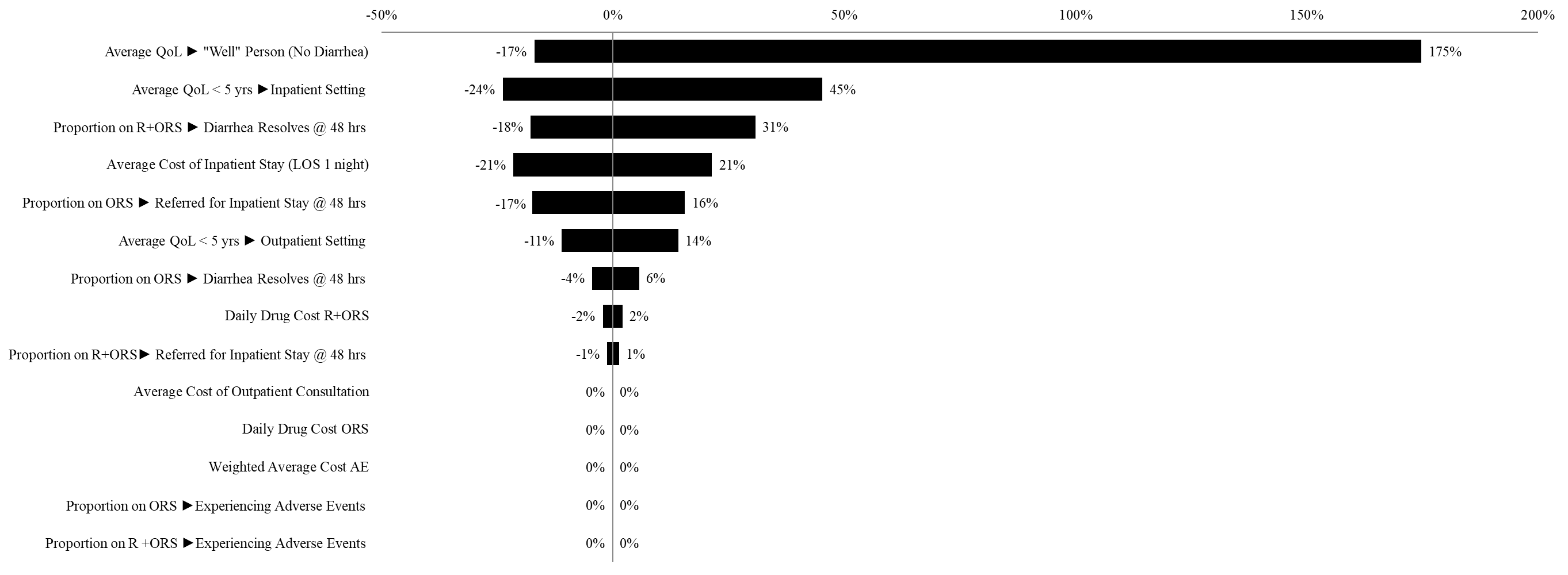


Figure 2: Tornado diagram of univariate sensitivity analysis, Philippines

The cost of an outpatient consultation has been set to 250 PHP and 500 PHP respectively for this sensitivity analysis.

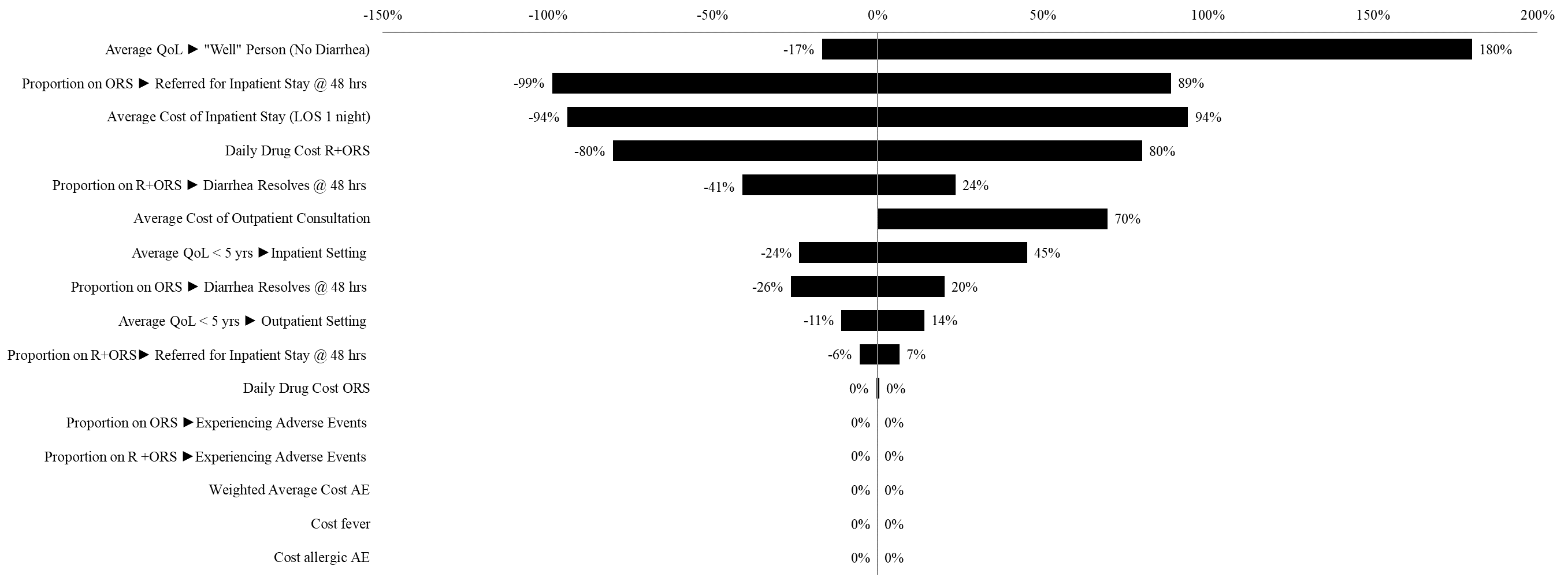


Figure 3: Tornado diagram of univariate sensitivity analysis, Morocco

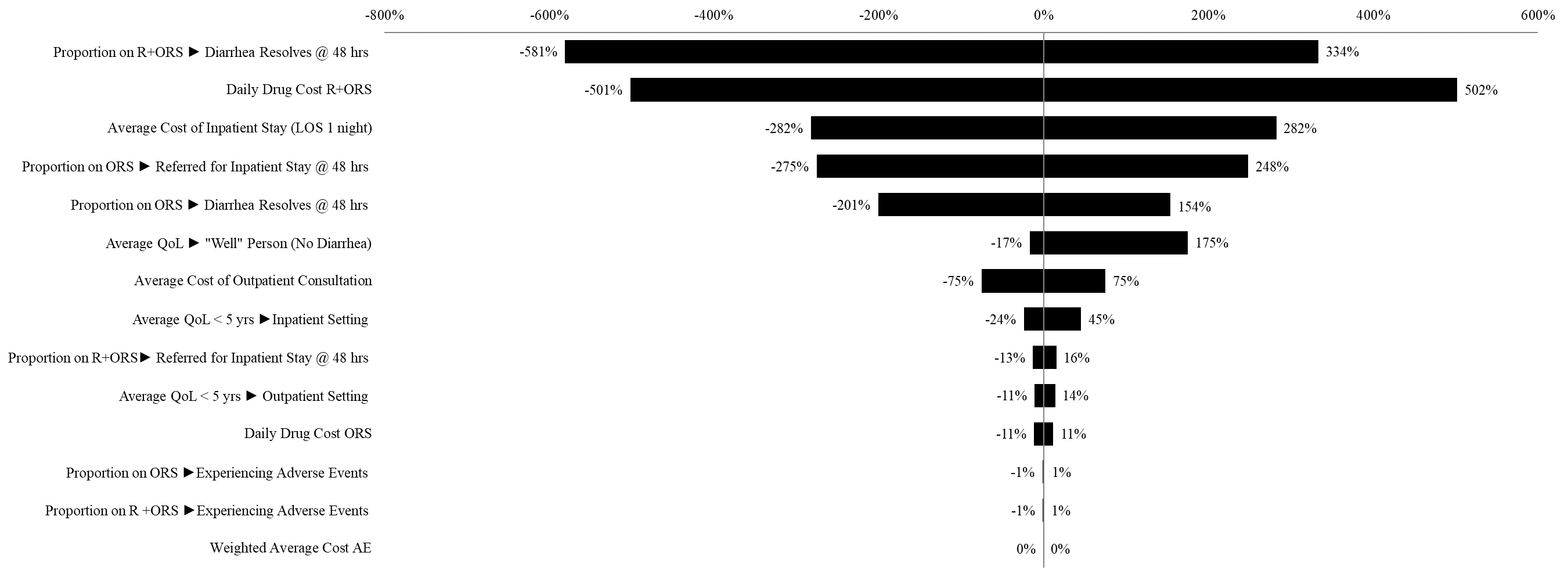
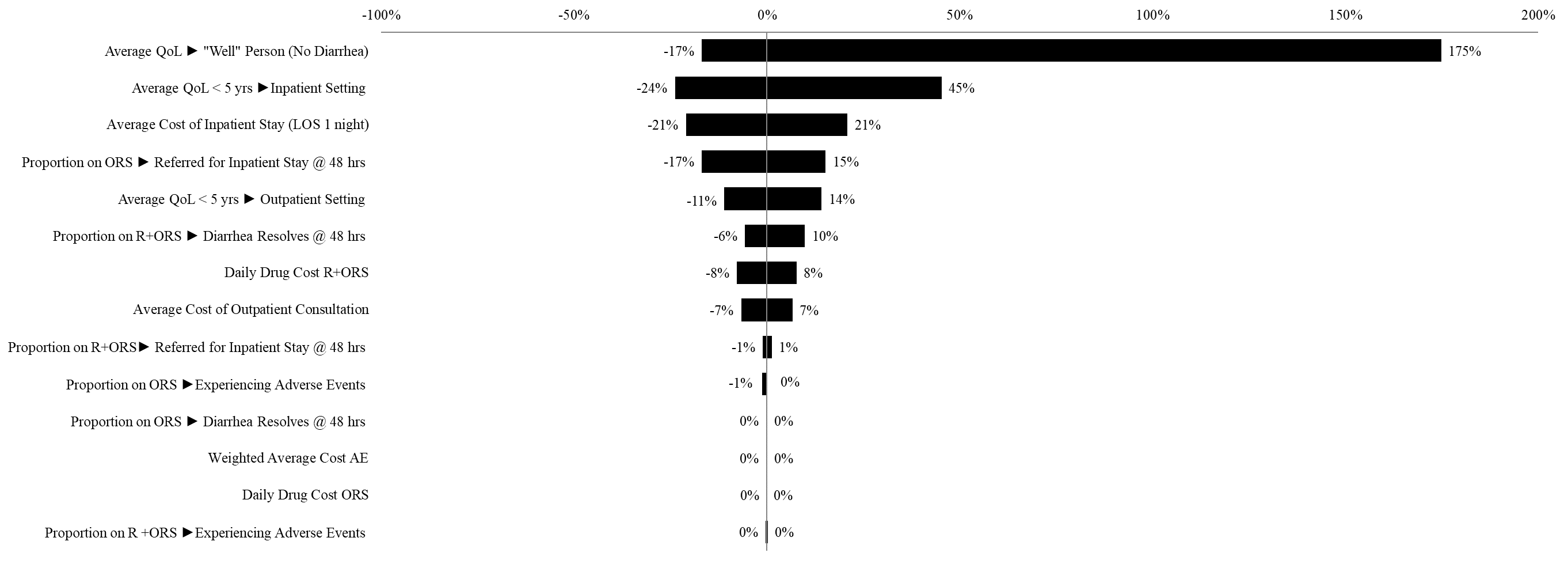


Figure 4: Tornado diagram of univariate sensitivity analysis, Vietnam



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