**Table A1:** Summary of the COVID-19 effects changed in the sensitivity analysis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | Behavior change | Testing+ diagnosis rate | ART initiation rate | ART dropoff rate + loss of VLS rate |
| 2020 | 20% decrease from 2019 in partnerships among MSM, and HET with multiple risk factors19 | 18% decrease from 2019 rates11 | 4·5% decrease from 2019 rate9 | Increases in rates to match 2·5% drop in use of ART9 |
| 2021 | 10% decrease from 2019 in partners among high-risk MSM, HET (50% of 2020 effect) | 4·5% decrease from 2019 rates (25% of 2020 effect) | 1·125% decrease from 2019 rate (25% of 2020 effect) | 25% of increases from 2020 (25% of 2020 effect) |

**Table A2:** Summary of the different scenarios considered in the scenario analysis. Percentages refer to the magnitude of the 2021 COVID-19 effect in relation to its 2020 value. Note that “care-related changes” encompass the effects to testing and diagnosis, ART initiation rate, ART dropoff and loss of VLS rates (shown in Table A1). Note scenario 1 corresponds to the base-case pandemic scenario.

|  |  |  |
| --- | --- | --- |
| Scenario | Behavior change, 2021 | Care-related change, 2021 |
| **1** | **50%** | **25%** |
| 2 | 50% | 0% |
| 3 | 50% | 50% |
| 4 | 0% | 25% |
| 5 | 0% | 0% |
| 6 | 0% | 50% |
| 7 | 100% | 25% |
| 8 | 100% | 0% |
| 9 | 100% | 50% |