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Supplementary appendix 1

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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1. Countries from which isolates were derived:

Shadings represent the number of isolates from each country. Figure originally published in https://www.who.int/publications/i/item/9789240028173 **(reference 9).**

2. Figure illustrating the steps to identify neutral mutations, before the algorithm was run:

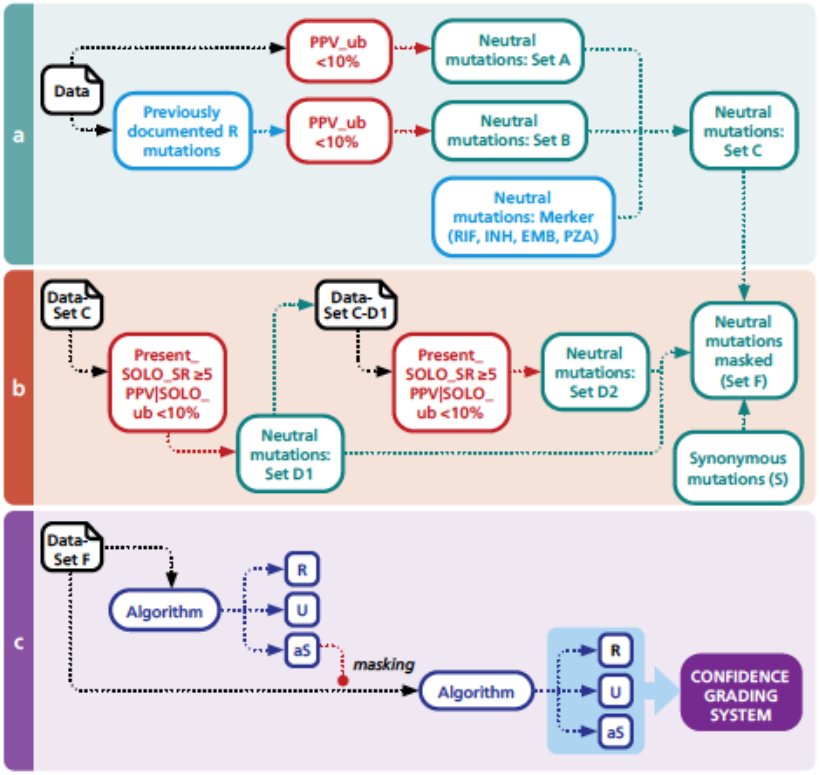
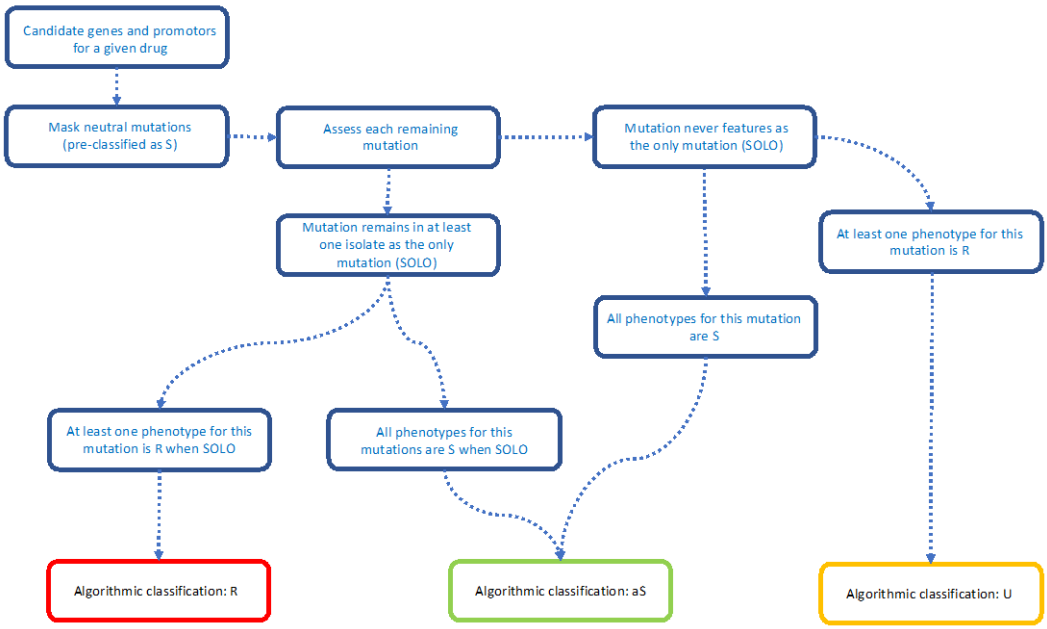


Figure originally published in https://www.who.int/publications/i/item/9789240028173 **(reference 9).**

3. Flow diagram illustrating how the algorithm classified variants:



4. Figure illustrating the confidence grading of mutations identified by the algorithm:

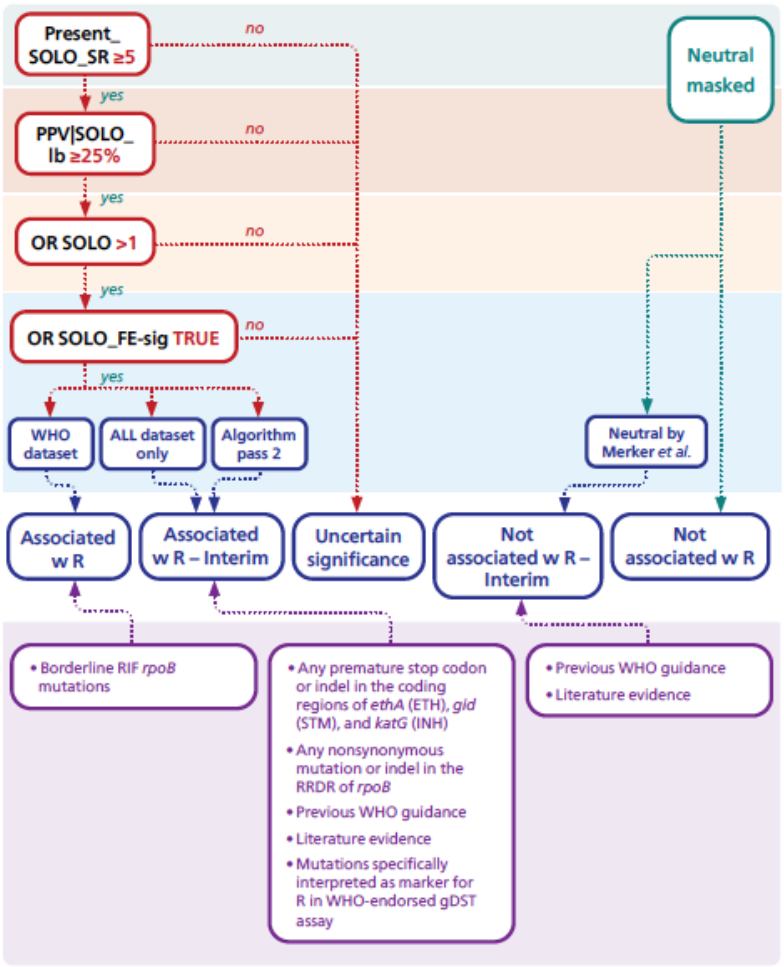


Figure originally published in https://www.who.int/publications/i/item/9789240028173 **(reference 9).**