

RSV-A genotypic drug resistance interpretation's algorithm

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ANRS-MIE - Respiratory viruses group GENOTYPE INTERPRETATION: MONOCLONAL ANTIBODIES TO RSV F PROTEIN

| | Mutations associated with resistance (fold change >10) | Mutations associated with "possible resistance" (Fold Change 5-10 or discordant results) | Described polymorphisms in epitope Ø without impact on sensitivity (fold change <5) |
|-------------|--|---|--|
| Nirsevimab | <ul style="list-style-type: none"> N67I + N208Y [4] <p><i>*Note that N67I or N208Y alone are not associated with resistance</i></p> | <ul style="list-style-type: none"> K68E [1] K209E [8] | <ul style="list-style-type: none"> N63T/S [3,7] I64V [1] K65R [1] E66K/G [3,7] K68N/R [1,4] N197K/H/D [1] I199M [1] L204I [1] I206T/I [1,3,4] V207I [1] K209R [7] Q210L [1] S211R [7] |
| Palivizumab | <ul style="list-style-type: none"> K272M/T [1] S275F [1] | Not listed | <ul style="list-style-type: none"> E66G |
| Clesrovimab | <ul style="list-style-type: none"> S443P [9,10,11] G446E/R/W [9,10,11,12] | Not listed | <ul style="list-style-type: none"> I432T/V [9,10] D440G [9] |