

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]