* **RSV Burden of Disease in Infants**(References in parentheses)
  + RSV seasons differ in onset, offset, peak, and duration annually and by geographic region.  Within the US the RSV season in the northern states is different than the RSV season in the southern states ([Respiratory Syncytial Virus Seasonality — United States, 2014–2017 | MMWR (cdc.gov)](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.cdc.gov%2Fmmwr%2Fvolumes%2F67%2Fwr%2Fmm6702a4.htm&data=05%7C01%7Ccoffin%40chop.edu%7C6af0b105a7b94b909d0208da3dc695c7%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637890220814501483%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000%7C%7C%7C&sdata=fDU76iOY9uZBGg3V%2BY0ZuifP09rDHxnci5MTzOnw0PE%3D&reserved=0); [Staadegaard L et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fonlinelibrary.wiley.com%2Fdoi%2Fpdf%2F10.1111%2Firv.12885&data=05%7C01%7Ccoffin%40chop.edu%7C6af0b105a7b94b909d0208da3dc695c7%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637890220814501483%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000%7C%7C%7C&sdata=rmAGTSkhGtcIhsa7YDEBTmYKXGSLo8NV%2FcSznll0UT8%3D&reserved=0" \t "_blank))
  + RSV is the leading cause of hospitalization among infants in the US (<1yo) ([Leader et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1i2eh5tmLCf09kVrT5LzdtuBf_taEHicBfGjH6T1aATkN0GeVJUUWHOLgU8JkswZe9gunPFtz0MtU3IbKUbK7vTnIY1O1qaj4OpuNDhqbrSL6m2b4mK9PzXVjh2Vi9sCmaReklGUeQt6ZbagXOx53Dg2ydz5XrGXiMMIbhZFyC_vFhqGOaucMFYRmOzKBf3f_BXeQZKmLOEoLBjumqrG0HZrI4A45ibHbXZYSUpzC8lfQBX52hDRaAM-nKpaP-9gCMVK56R7E6cJGl-PCvrvm4CFGeR1EUmzPoEnwcwbNbQfMUtK8l8CItII2YBNRghrX%2Fhttps%253A%252F%252Fwww.sciencedirect.com%252Fscience%252Farticle%252Fpii%252FS0022347603005109%253Fvia%25253Dihub&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=nEkbXzaauKJ1fokMA7TaxZOtcYttnDnWDkllX1F9w98%3D&reserved=0))
  + Acute bronchiolitis due to RSV was the leading cause of infant hospitalization and represented a median of 9.4% (range 7.5-10.7%) of total infant hospitalizations each year ([Movva N et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.eventscribe.net%2F2021%2FAAPexperience%2FfsPopup.asp%3Fefp%3DSlZYT1RRUloxNTA5Ng%2520%26PosterID%3D422018%2520%26rnd%3D0.1172432%26mode%3Dposterinfo&data=05%7C01%7Ccoffin%40chop.edu%7C6af0b105a7b94b909d0208da3dc695c7%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637890220814501483%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C2000%7C%7C%7C&sdata=gl9wyexS%2FhVXYQXgtiImZoGSO%2B9L6tAqC29fOsKiwNY%3D&reserved=0" \t "_blank); Data on File)
  + The rate of outpatient and emergency care due to RSV is a significant burden through the first 12 months of age ([Rainisch et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1ivC-V739UBdyN2XS5gAIqxuoar8gZ4VoLcPdleABrVYnFKvuZ0drmNYsIBFhtE5nikkzKPwiw3-ZZ824dl9pkypGMKvdQ6UpKt8JZJsE3IQjLmHnpaonp16xxdLIQzV--cB9_-lRnARHVbM1_6ElOkYCJCGXzG5ClUr4lvGAwT_AAA3thXJjYhDqen38dqsz3deYZW0zUvVZK5I5VTTm_cbCCDAZYD50Qh5H-JO5MgjczUQEzZ_VadFgndakt8qmd2LL6POpMERlNomQyjgnja9yZtcP2fl-6W16qY9QcBGfyNiVhHP6TIYd_uzPoelB%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F31740097%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=GFxrlhgP0czpD4NXDsfKIH8NpqJ%2FYJomkDML2oxTvMA%3D&reserved=0" \t "_blank); [Hall et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1SQdj4bXWl4OIUqujuLC23lyPyWDns2ZEVv4yLCXf6I9M7wc3VhwwYwWlBVS164kUV6BLjyZDh1PdgeOv3bOfK0u6QyT7_qRGHkDEmVhGkDKkV_gbvqlhglMQe43GN2a5s4ouB7GkpA7uY7AbkpbpuwEW9wOUXFedunRpTYG2Ggk34SmhwOVpRpLpOfO6eqkYo_c6F3Vr6n8R1aWO1_Oyr_v8-dbu9Bhy4pMVCzk4SGxX_C8f8QHa3hCo-WqUiF2351Qlz5D-dpaS6yeS-zoYfDjqkaOzY_1SU5fsOofv5qqAdv5R275NTBZPphsrggWf%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F23878043%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2Fsc7UaJjUpxYO5LWMpAcqDxKYJxbwouS8DMw9rXp3WY%3D&reserved=0); [Lively JY et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1U7hQ3osuJKqozXgGZAXj5fntelMq9MR-YiA0mEnAKMW4OydIc-CpMIe92-ViPP6VB1uchUWoEJgkAstmsXZFUg_gU8S-yaXSCuBvHGw-6nB3PeHFpIwSKYrIZO7x9-456aOIAnpzYKFWtynuNIT16yKqqwqkKL-BrOfild8nI6gWsdQjLrnwlUK2j7Rfbidp5Nh25o2eHeUcoP24Zx0CwcjXjXcDlUakQTIJpMXKMx9fnyrrKphBFhMWkswEbY64eqJ-tDw2IFDxnAHiLvnKFW9Db4hGzXUj_tYeu1BACQVyavyrqYy1exmN0RSYRLFh%2Fhttps%253A%252F%252Facademic.oup.com%252Fjpids%252Farticle%252F8%252F3%252F284%252F5370363%253Flogin%253Dtrue&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Xtq85YVg3XkH6Y4rN1AWf7gomQ8wx8t4E%2B45quUIOWI%3D&reserved=0))
  + Most of the healthcare utilization related to RSV in children <12 months occurs in outpatient settings in the US ([Hansen C. L. et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1Izq_ZWD0aD9B5QB9MUrZsuZnBzaDBDvqyVyvPzjap3hwhgSMX3MltEP1R3ZLLk4DBKR0HypdeKqCVw8fHhEwGeuPKKkt0q-zqNpAQYOGyt8tjjC8vuo2S8WL8Z7W0vNWNdg1pSVhAi1QtReoVYG40RL7nNGXSL1qGIPIZyW1I4XMi28SwlKZnF4xmg-YfucGp9ZFuGMzBQi67qkyzh2LuL9x1CnT3Qb6fjc1v-TrOQGlo8EX2vOyctEdeqfIiwJCYd6X4Svoog02r8dKCna61jYXApaMeMiJvQ6Alqsig5k3k8sFNLS_XYt8BCodmBsL%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F35226079%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gSp4Hi7QgSbIN115fEXj%2FHX20hHhJnsBeJs70vcS4Bg%3D&reserved=0); [Rainisch et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1ivC-V739UBdyN2XS5gAIqxuoar8gZ4VoLcPdleABrVYnFKvuZ0drmNYsIBFhtE5nikkzKPwiw3-ZZ824dl9pkypGMKvdQ6UpKt8JZJsE3IQjLmHnpaonp16xxdLIQzV--cB9_-lRnARHVbM1_6ElOkYCJCGXzG5ClUr4lvGAwT_AAA3thXJjYhDqen38dqsz3deYZW0zUvVZK5I5VTTm_cbCCDAZYD50Qh5H-JO5MgjczUQEzZ_VadFgndakt8qmd2LL6POpMERlNomQyjgnja9yZtcP2fl-6W16qY9QcBGfyNiVhHP6TIYd_uzPoelB%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F31740097%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=GFxrlhgP0czpD4NXDsfKIH8NpqJ%2FYJomkDML2oxTvMA%3D&reserved=0" \t "_blank))
  + Most hospitalizations for RSV occur in healthy full term infants ([Arriola CS et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1nI7lOqcCBWaB6oyF9unOaO_LNKBVnkRkmhm6J7KCCufZXwDbfnh0OfyrUIHPhB3YezKLiNo1PlP1CNELfT5GBJ9AmQ76kj1shNrJaxUbpr_V278SI2WdcDKz3l8YECpM4wOPhnrvOmAuXOPidSNSOP1tBiyMyRyDMz6SmEu97TfJk7krhwJTaHsNWxtjINqy_zvibCuDIay6m9vqo0iEkBlM1jptdMN350R9JsWJJ06d42Y_ef7quvBFR4Ek0f0c51ujtLe3kaKbNUF2x5z1MivCn3szAjy-5FqBKj7eviAw1aQgPc2WMaBeCw7kypo6%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F31868913%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=VnhrhA0Iwag6hgITvCjvREclEKHTimbY9TOzqG7LORA%3D&reserved=0), [Supplemental Tables 4-6](https://oup.silverchair-cdn.com/oup/backfile/Content_public/Journal/jpids/9/5/10.1093_jpids_piz087/1/piz087_suppl_supplementary_table-1.docx?Expires=1663281706&Signature=I8QtmNzDwHQLXb6CB4pQbXWhy2nnYAlpJG9TilsEIt3-Gq-O1M1Qlq1LMo-Nqfv9WdSPVmklcm1aRqDYACfCuwBk-qUHHk90ykQ~afLJrpjyAUCYqRLyCkBOhHXGjv~Bp2VfTHwzNeacP00tyeoBKzdMHvn9VXyfRo94WR3WuF8nVkj5NtZX4IC75fwXrOzpAnamty5~CU-NjFOP2QyIrZ~f~Rn7C2vPqeCPn9cm5K85u0xEHxSIMs0HxpCQJz7RCoXUwN3AbZd~08Rt0mT5iOzW~Ayon1TdfThJ8Km2nlzZELViZOiR1oFWhq-a8xRlVuhS6y2jNPhdSnSUOORLvg__&Key-Pair-Id=APKAIE5G5CRDK6RD3PGA)).  Most RSV ICU admissions and mechanical ventilation occur in healthy term infants ([Arriola CS et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1nI7lOqcCBWaB6oyF9unOaO_LNKBVnkRkmhm6J7KCCufZXwDbfnh0OfyrUIHPhB3YezKLiNo1PlP1CNELfT5GBJ9AmQ76kj1shNrJaxUbpr_V278SI2WdcDKz3l8YECpM4wOPhnrvOmAuXOPidSNSOP1tBiyMyRyDMz6SmEu97TfJk7krhwJTaHsNWxtjINqy_zvibCuDIay6m9vqo0iEkBlM1jptdMN350R9JsWJJ06d42Y_ef7quvBFR4Ek0f0c51ujtLe3kaKbNUF2x5z1MivCn3szAjy-5FqBKj7eviAw1aQgPc2WMaBeCw7kypo6%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F31868913%252F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711562614%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=VbRJ0k9ke6oXzVWSZJo0W28Ke2Kr3xFpIpwG8oKnOg0%3D&reserved=0)).   For both Commercially insured and Medicaid insured infants – the total costs for RSV hospitalization in healthy term infants was higher than preterm infants (infants with underlying medical conditions were not included) ([McLaurin KK et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1CI31kyaRGb6dY87CHrKcm_vA4Olo5ng8ZvodJER7w9bQUSuh0kw4_aRQicsP0lIKGlXunM0mpD79b7lHbpVTmwUk-VjGhIBt165GfPXaH8ylJ-uMqP9YjSkhlTBFt52YrCCZr9is8vp1Uh1UM9LDT9PcaCs0d8KHN2o8jv0VmMX8l-ZjPK8NDak35J9USpBEpShU7UqyjBXePBvw2J5_y3x_bEvdxOYzApBIeUOvWaK2fnVMoILQbTA477IiDxykRC6d-p-xeC7UWnse3YaWRWM0ys--NIpEwtuLuoKL8knFlh4leug25Yj2jo2J2LTS%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F27490190%252F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=uUOC1XwKskTMCco7iEDcD3VXWpRpq8UKRyVjcz6LrKo%3D&reserved=0))
  + RSV burden remains high compared to Influenza burden in infants.  RSV causes ~10x greater mortality, ~16x greater hospitalization, and ~5x greater medically attended events compared to influenza ([Thompson WW et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F16KQ3JTGjdEj6RnKWDg9cuB_-sjcktorpi4nUP7EWiQ-JP5E6WtzbDUW6C4W4xq2cyJCjOHvzAuwgXQIOqU-XuBFiEICvYK5iU8kk5yq4YZOPSq_S6_iy4PVnhX-gxXmkMzgQduVScTUHuEDIr0LOBKwNQ0KJwSRZQLdDS9CB-xEtOYfn9vOAzUNPUTw1ceU36rzWY-TCprJjx76eBTh3NSfLqWy7HmzT8e1utijQWwTaSlbSZjQJLgUKqEyrjwk1XmmKaKUrYw8RX7l_B7kUuaKeO39s2H-HW9AY-znVYKRlXsKfCvJESvQKpZzvjSbA%2Fhttps%253A%252F%252Fjamanetwork.com%252Fjournals%252Fjama%252Ffullarticle%252F195750&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gnreiqXjiFbo8r%2BC5%2B1fL4e8CK9jfzsQTskNtyJ%2FvcQ%3D&reserved=0); [Zhou H et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1KGP6N2_NtjFtDm0SZXvrdAvTXU6FiI_lD3fAbhMQ9PWb6MUwJ-ehulIkV7ABK__smksEPhYVlMUj5HEMC4LPNPKhlJSipFbQc4J9kbBoQ3dG6CHhA0ndHon45wbXYK5Y2MopzZIWDx3OevEw7BF-sPjgRkkQ5nG_33Bf0-QO3nTaA0j3SYMj1RV1GXn3tBV7gj8Pf4zmDnR7m6vQc1Pnz0UTfXs3k6McUFSTGFa050QfNhUS6jciCiUITFyAHjY6dAMAi_d72zj1zxhuTWq4Q7VjSyShgL2q2quB0rKZQZebeSSHzHkWtrr5FSCCRmpY%2Fhttps%253A%252F%252Fwww.ncbi.nlm.nih.gov%252Fpmc%252Farticles%252FPMC3334364%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739690437%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=1OPc8NFkDeI64uv8px5ea%2B8HiHILoMT2ZBgVEcqLPcA%3D&reserved=0); [Simpson MD et al](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1HrLb3C_Jg1wuZ8qsfN0s6zqs3q3XW_zn6ETVgY8TYhNj2yd7j5jSlWet1INRdAnGN9Omuztr8SjiENzzAvA3P2d1GBh_1X7Xzq1ZY86UcSCRMfCYZj9Rx8eAPSFnTkR7X8bLIrmVAeLyOVpRkhV9SuIH2s5weYWbZSF1o5HZbzk4MlGKfb-xvr8TUowUkn4xOHO3yiz6AqAFfUZ6LA0OkL9MXdOi9jdiYHg_Oh93i5iHG2BpjRMPnKr1livFBBAIHBsd_cBekmhzTQZsTWJ4OsjJwondcf9OM7yuIQyUKTNkcdwzTU7LhBzP-iBo4bEb%2Fhttps%253A%252F%252Fwww.ncbi.nlm.nih.gov%252Fpmc%252Farticles%252FPMC4943552%252F&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739846678%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=jQ3iERsp%2BW6cEjxjUc4wz2GPB0Xwz7522kAziTJqVhY%3D&reserved=0); [CDC MMWR May 28 2004](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F12eHl70w3Azos6x9Tr4L5aqYgq2v3mcm3hRJ6qGfcX4Zbz4cvDSquWmzPLJa0I3C9RtADJKRxap7AEgIVCx60v2upeWRZAcdLH5dijy1N0N46L5VRs6lJVrIirqUqIbnKNNj0ieUEJd40PqELjHIuZbIxtrQNGZezi4TJQ6tUhLrN-jqcSvHxWvP-c7sTZTR6mNosD2Rvg21zzNHNc3RSKIQrFZGHcYFBPJ6Z4mZHQyWurACn9DwRS0fRm19g23ZKHVRsxUOH5zrDoMOT4ptoOKmT6XBPHzRd85Nk2dmzCrfqX72JRIQeAaZSPPstTfk5%2Fhttps%253A%252F%252Fwww.cdc.gov%252Fmmwr%252FPDF%252Frr%252Frr5306.pdf&data=05%7C01%7Cjjbucher%40thehealthplan.com%7C100fba34c09d43be83ce08da65ad1932%7C37d46c567c664402a16055c2313b910d%7C0%7C0%7C637934091739846678%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=WSfXByS7CwLdQOzsv1cDONUOM4VGlWqxB9%2B2fKRKnDw%3D&reserved=0))
* **Approaches to RSV prevention in Infants Considering Age During the Season:**
  + 3 potential approaches for prevention of RSV in infants are below w some pros / cons for each approach ([Rodriguez-Fernandez et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fjournals.lww.com%2Fpidj%2FFulltext%2F2021%2F05001%2FMonoclonal_Antibodies_for_Prevention_of.8.aspx&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0AvLpsEmlyo8QzFSH5WM%2BdvcZBxjxKEsujlKWOFgbLY%3D&reserved=0); [Karron et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fpubmed.ncbi.nlm.nih.gov%2F33986169%2F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Rl2OCzW4lPtPHfHtbYpbvGzah63MyQ1e42IhPJU5lmQ%3D&reserved=0" \t "_blank);[Eichinger et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fpubmed.ncbi.nlm.nih.gov%2F33623860%2F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=IjgbO0Xwk7GSehtHpMjkQFsIBKcNDPpa8ocpFQ8ujjg%3D&reserved=0); [WHO mAb](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.who.int%2Fpublications%2Fi%2Fitem%2F9789240021853&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=texnJ9BrOOzMrfc2%2BnI5SyPom09CVvnOcHJqaCNvIjw%3D&reserved=0), accessed on 16Dec2021; [WHO RSV Vaccines](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.who.int%2Fpublications%2Fi%2Fitem%2FWHO-IVB-17.11&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Hhue8wpydKujw1YQJCybYTYoY%2Fu2BrYMb%2BHkPf0XxY8%3D&reserved=0), accessed on 07Dec2021; [Zhao et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fpubmed.ncbi.nlm.nih.gov%2F23426855%2F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=5WObJRWvKEdKc9WZ2DkoiHB%2F2rqWE1J%2BE0N69%2FfY%2BXc%3D&reserved=0); [Razzaghi et al MMWR](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.cdc.gov%2Fmmwr%2Fvolumes%2F69%2Fwr%2Fmm6939a2.htm&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=TJ7yGPaHvPWHhRqNIFRJWCK8Rm4yzFs1zBSFLPbzXfU%3D&reserved=0" \t "_blank))

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Long-acting monoclonal antibodies** | | **Maternal Immunization** | | **Infant Immunization** | |
| **Pro** | **Con** | **Pro** | **Con** | **Pro** | **Con** |
| Independent of infant immune function | Only protects single season, may require additional doses for long season | Shown  to be effective supplement to infant immunization for pertussis and influenza | Premature infants may not be protected due to poor antibody transfer | Potential for multi-season protection | Multiple doses often needed for infant protection, may leave youngest unprotected |
| Rapid Protection following dosing | Potential for viral escape due to loss of epitope | Babies due to be born during or just before season may benefit | Protection may not last for the entire season due to waning antibody levels | Potential for herd immunity | Premature infants may be difficult to immunize due to under developed immune response |
| Engineered to provide season long efficacy (extended half life) with a single dose | Potential for antidrug antibodies | Independent of infant immune function | Suboptimal access and uptake in US | Easy to administer and likely acceptable to stakeholders |  |
|  |  | Easy to administer | Babies due to be born outside RSV season may not be protected depending on month of birth and duration of protection |  |  |

* + - Study by Janet et al ([Janet et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1bKNHFbgBsV_kZRunXOGMc-W5wrCAtHlAzlXcNag9nnjUODpC_liMSK1cUIoGWTf2ThmnbcrlLspt5cESjXiNxK1fk3DxZ2pVWLxeq1tyR8QOPJonuoijvcpCzNBhNjjXsHazFPv2NovfNEb_Q2wnHuTheOqo5eYYZTq0VMlohkd_nr4o-YWQx0r34gk_wcwSv-faxNDR6vr0qfzfKl_PORgxChdA6Tfg2kcoQUe2iYmVpqylsdW3GA95suhzdK-JQEag5wfZ6iyMbLGBOLj9BmRlr_7MZZRglXm7PxEzwBfv_p3flKvXwfI3j2gMUdgp%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F29194014%252F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711718839%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Ggf59XCjWW2UT7h20xAZS4SFzYDHYZJMy1nosNFINGs%3D&reserved=0)) found an effective annual, universal campaign with mAb could render unnecessary maternal and active infant immunisation in temperate climates. However, unlike active infant immunisation it could not provide herd immunity, as children would acquire RSV infections in their second RSV season. In contrast, in tropical regions children would become susceptible from 5 months of age, although this could still protect infants during the age of highest vulnerability.
    - Study by Rainisch et al ([Rainisch et al](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsecure-web.cisco.com%2F1ivC-V739UBdyN2XS5gAIqxuoar8gZ4VoLcPdleABrVYnFKvuZ0drmNYsIBFhtE5nikkzKPwiw3-ZZ824dl9pkypGMKvdQ6UpKt8JZJsE3IQjLmHnpaonp16xxdLIQzV--cB9_-lRnARHVbM1_6ElOkYCJCGXzG5ClUr4lvGAwT_AAA3thXJjYhDqen38dqsz3deYZW0zUvVZK5I5VTTm_cbCCDAZYD50Qh5H-JO5MgjczUQEzZ_VadFgndakt8qmd2LL6POpMERlNomQyjgnja9yZtcP2fl-6W16qY9QcBGfyNiVhHP6TIYd_uzPoelB%2Fhttps%253A%252F%252Fpubmed.ncbi.nlm.nih.gov%252F31740097%252F&data=05%7C01%7Cpanitch%40chop.edu%7C592af6f472814d87ea8f08da9d8af3fe%7Ca611241607b041a59bb1d146b575c975%7C0%7C0%7C637995517711875890%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=JUvLRg7T2fYwugXJBPfuJQ3OsCCmVURJ6aMSyxqVpR0%3D&reserved=0" \t "_blank) ) found a passive antibody candidate w 5mo of protection targeting all infants was estimated to prevent the most LRTIs
    - Potential for mAb to administered at birth or at well visits or clinic before season - in order to vaccinate all infants