

SOLO USO INTERNO



| Paciente | DELFINA | Nº Historia Clínica | 150327903 | Fecha de Nacimiento | 27/3/2015 |
|--------------|--------------------------------|---------------------|-----------|---------------------|-----------|
| Edad | , 4 meses, 24 días | Sexo | F | Plan | |
| Tipo Doc. | DNI | Nº Doc. | 54702151 | Fecha de Ingreso | 20/7/2015 |
| Convenio | O.SOC.DEL PODER JUDICIAL(PRES. | Nº Afiliado | 6917631 | Fecha de Egreso | 21/7/2015 |
| Tipo de Alta | SANATORIAL | Días de Internación | 1 | | |

EPICRISIS

Centro de Atención: H. U. SAAVEDRA Departamento: PEDIATRIA

Motivo de Internación

BRONOUIOLITIS

Antecedentes

Diagnósticos al Egreso

BRONQUIOLITIS

Resumen de Internación

PACIENTE DE TRES MESES DE EDAD, SIN ANTECEDENTES PATOLOGICOS DE RELEVANCIA, INGRESA EL DIA 20/7 A SALA DE INTERNACION PEDIATRICA POR BRONQUIOLITIS. LA NIÑA COMENZO 15 DIAS PREVIIOS CON CVAS Y LUEGO SILBILANCIAS, CONSULTANDO EN VARIAS OPORTUNIDADES A GUARDIA DE ESTA INSTITUCION. CONSULTA EL 20/7 POR REGULAR MECANICA VENTILATORIA, SE DECIDE SU INTERNACION PARA OBSERVACION Y EVENTUAL OXIGENOTERAPIA. PERMANECIO EN BEG, CON MEJORIA DE TAQUIPNEA Y DE MECANICA VENTILATORIA, SIN REQUERIMIENTO DE OXIGENO, CON SALBUTAMOL C/ 4 HS Y METILPREDNISONA 1MG/KG/DIA C/ 8 HS (RECIBIO 3 DIAS DE TTO CORTICOIDE EN TOTAL). SE REALIZA VSNF: PENSIENTE RESULTADO. POR BUENA EVOLUCION CLINICA, SIN REQUERIMIENTO DE OXIGENO, SE DECIDE OTORGAR EL EGRESO SANATORIAL.

Indicaciones al Alta

Destino de Alta

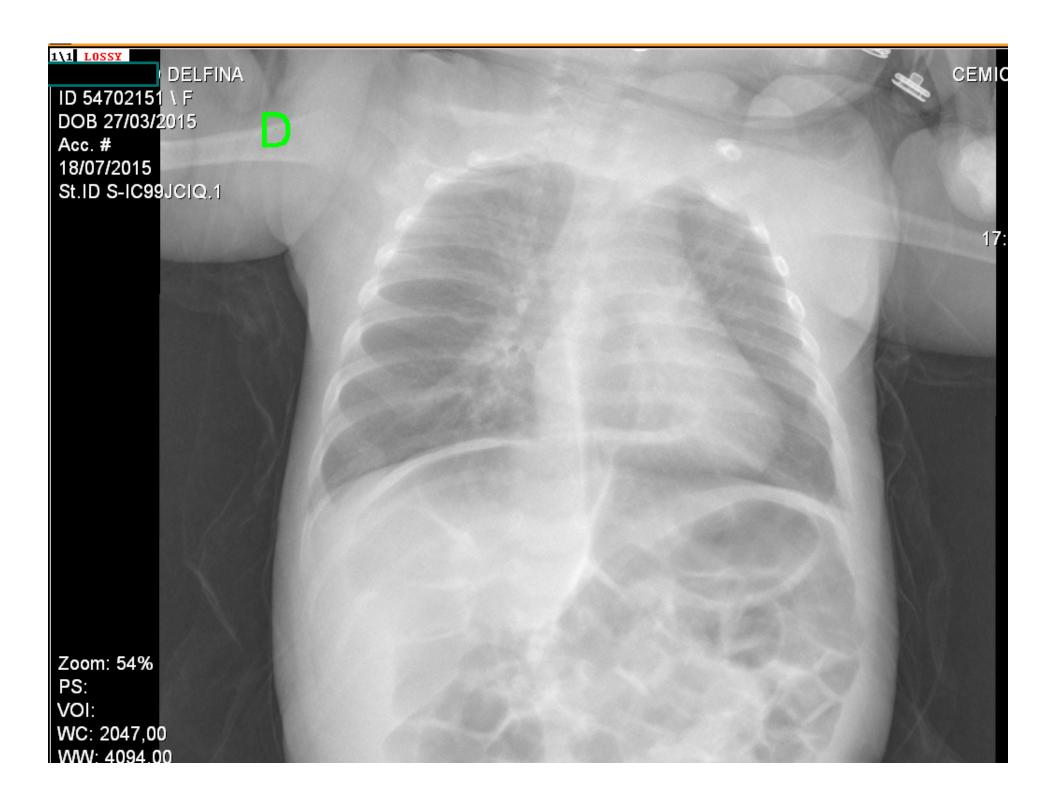
DOMICILIO

Indicaciones Farmacológicas

SALBUTAMOL mg VIA VO 2 PUFF C/ 4 HS

Indicaciones No Farmacológicas

PAUTAS DE ALARMA CONTROL CON PEDIATRA DE CABECERA





Sociedad Argentina de Pediatría Subcomisiones, Comités y Grupos de Trabajo

Recomendaciones para el manejo de las infecciones respiratorias agudas bajas en menores de 2 años

Recommendations for the management of acute lower respiratory infections in children under 2 years of age

Comité Nacional de Neumonología, Comité Nacional de Infectología y Comité de Medicina Interna.

Coordinadores: Dra. Laura Moreno, Dr. Fernando Ferrero.

Colaboradores: Dr. Néstor Abramovich, Dra. Verónica Aguerre, Dra. Miriam Bruno, Dra. Miriam Calvari, Dra. Ana Ceballos, Dra. Ángela Gentile, Dra. Norma González, Dr. Alberto Maffey, Dra. Patricia Paba, Dr. Raúl Ruvinsky, Dr. Santiago Vidaurreta, Dr. Fernando Vila.

Bronquiolitis

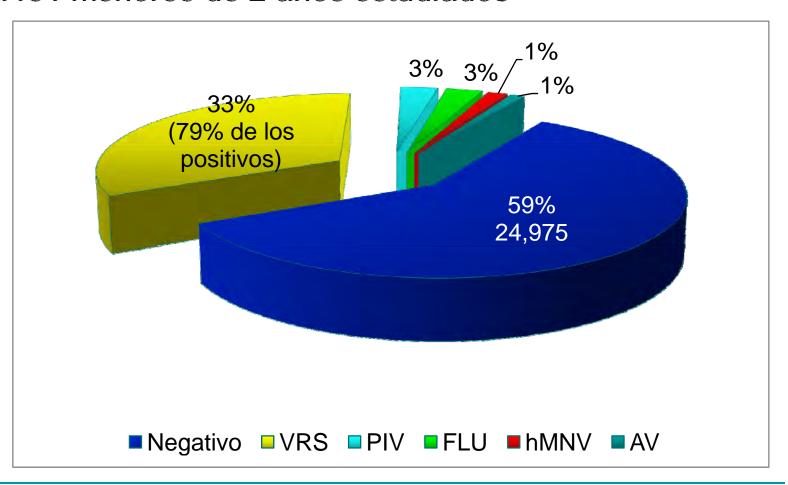
Definición:

Primer (o segundo) episodio de sibilancias asociado a manifestaciones clínicas de infección viral en un niño menor de dos años. Es una inflamación difusa y aguda de las vías aéreas inferiores, de naturaleza infecciosa (IRAB), expresada clínicamente por obstrucción de la vía aérea pequeña.



Sistema Nacional de Vigilancia Epidemiológica por Laboratorios de Argentina (SIVILA – SNVS)

42.481 menores de 2 años estudiados



SOLO USO INTERNO



Paciente: DELFINA

Edad: 100 Años

Nº Historia Clínica: 150327903

Sexo: F

Tipo Doc: DNI Nº Doc: 54702151

Plan: 900 Convenio: PODER JUDICIAL Nº PRESTADOR 4082

Nº Afiliado: 6917631 Sucursal/Orden: 2/1383713

| Estudio | Determinación BINO VIBUS DOB | Resultado Unidades V |
|---|--------------------------------|----------------------|
| RINOVIRUS PCR | RINO VIRUS PCR | NEGATIVO |
| VSR-ANTIGENO (VIRUS SINCICIAL RESPIRATORIO) | VSR VIRUS SINCICIAL ANTIGENO | NEGATIVO |
| VSR-ANTIGENO (VIRUS SINCICIAL RESPIRATORIO) | MUESTRA VIRUS SINCICIAL ANTIGE | ANF |
| ADENOVIRUS-ANTIGENO | ADENOVIRUS ANTIGENO | NEGATIVO |
| ADENOVIRUS-ANTIGENO | MUESTRA ADENOVIRUS ANTIGENO | ANF |
| INFLUENZA A-ANTIGENO | INFLUENZA A-ANTIGENO | NEGATIVO |
| INFLUENZA A-ANTIGENO | MUESTRA INFLUENZA A-ANTIGENO | ANF |
| INFLUENZA B-ANTIGENO | INFLUENZA B-ANTIGENO | NEGATIVO |
| INFLUENZA B-ANTIGENO | MUESTRA INFLUENZA B-ANTIGENO | ANF |
| PARAINFLUENZA 1-3-ANTIGENO | PARAINFLUENZA ANTIGENO | NEGATIVO |
| PARAINFLUENZA 1-3-ANTIGENO | MUESTRA PARAINFLUENZA ANTIGENO | ANF |

Opciones terapéuticas actuales para VSR

 Terapia de soporte (oxígeno suplementario, hidratación, permeabilizar narinas, alimentación)



• No ha vacunas disponibles (se encuentran en desarrollo)

 Inmunización pasiva profiláctica con palivizumab (Pre-términos< 32 semanas de edad gestacional)



Respiratory Syncytial Virus and Recurrent Wheeze in Healthy Preterm Infants

Maarten O. Blanken, M.D., Maroeska M. Rovers, Ph.D., Jorine M. Molenaar, M.D., Pauline L. Winkler-Seinstra, M.Sc., Adam Meijer, Ph.D., Jan L.L. Kimpen, M.D., Ph.D., and Louis Bont, M.D., Ph.D., for the Dutch RSV Neonatal Network

Niños entre 33 y <36 semanas de edad gestacional

| Table 3. Infants with Wheezing.* | | | | | | |
|---|--------------------------|----------------------|------------------------|--------------------------------------|--|--|
| Variable | Palivizumab (N = 214) | Placebo (N = 215) | Absolute Reduction† | Relative Risk Reduction (95% CI)† | | |
| Any wheezing — no. of infants (%) | 66 (30.8) | 101 (47.0) | 16.2 | 34 (14–53) | | |
| Wheezing episodes — no. | 137 | 266 | 129 | 48 (32–62) | | |
| Recurrent wheezing — no. of infants (%) | 24 (11.2) | 45 (20.9) | 9.7 | 47 (14–80) | | |

^{*} Any wheezing was defined as at least one episode of wheezing during the first year of life. A wheezing episode was defined as a respiratory episode with wheezing on more than 1 day. Recurrent wheezing was defined as three or more episodes of wheezing during the first year of life. P<0.001 for the between-group comparisons for any wheezing and wheezing episodes and P=0.005 for recurrent wheezing.

[†] The values for absolute reduction are percentage points, and the values for relative risk reduction are numbers of episodes.

2500

El tratamiento con palivizumab redujo significativamente las sibilancias recurrentes en niños sanos durante el primer año de vida. Esto demuestra la importancia del VSR como mecanismo de producción de sibilancias en ésta edad

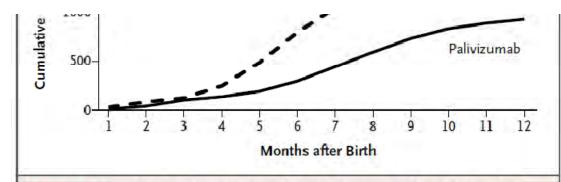


Figure 2. Cumulative Wheezing Days for 429 Preterm Infants during the First Year of Life.

P<0.001 for the comparison between palivizumab and placebo with the use of Poisson regression.

CONCLUSIONS

In otherwise healthy preterm infants, palivizumab treatment resulted in a significant reduction in wheezing days during the first year of life, even after the end of treatment. These findings implicate RSV infection as an important mechanism of recurrent wheeze during the first year of life in such infants. (Funded by Abbott

Opciones terapéuticas actuales para VSR

 Terapia de soporte (oxígeno suplementario, hidratación, permeabilizar narinas, alimentación)



- No ha vacunas disponibles (se encuentran en desarrollo)
- Inmunización pasiva profiláctica con palivizumab
 (Pre-términos< 36 semanas de edad gestacional)



Tratamiento con Rivavirin en aerosol



 Los corticoides, broncodilatadores, montelukast, adrenalina y CINa 3% no han demostrado ser útiles en el tratamiento de la enfermedad



Study of Montelukast for the Treatment of Respiratory Symptoms of Post-Respiratory Syncytial Virus Bronchiolitis in Children

Hans Bisgaard¹, Alejandro Flores-Nunez², Anne Goh³, Parvin Azimi⁴, Andrew Halkas⁵, Marie-Pierre Malice⁶, Jean-Louis Marchal⁶, S. Balachandra Dass⁶, Theodore F. Reiss⁶, and Barbara A. Knorr⁶*

Conclusions: In this study, montelukast did not improve respiratory symptoms of post-RSV bronchiolitis in children.

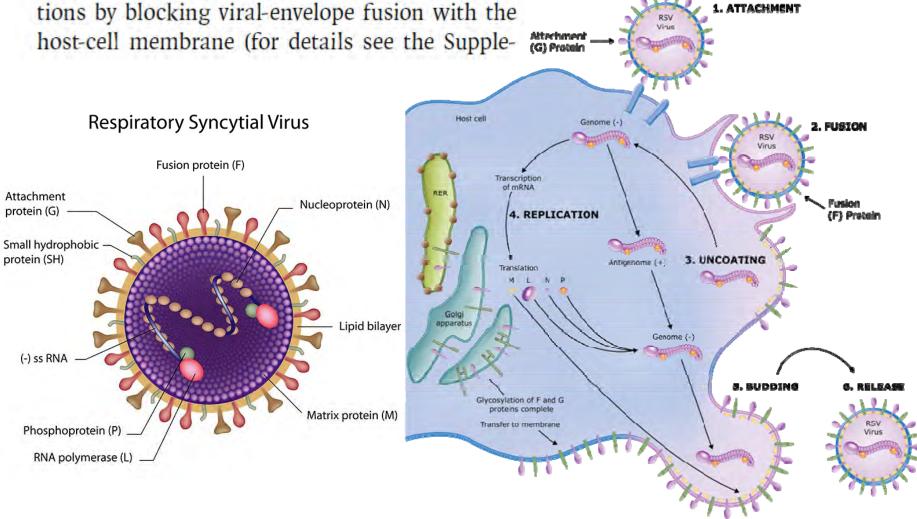
Clinical trial registered with www.clinicaltrials.gov (NCT00076973).

The NEW ENGLAND JOURNAL of MEDICINE

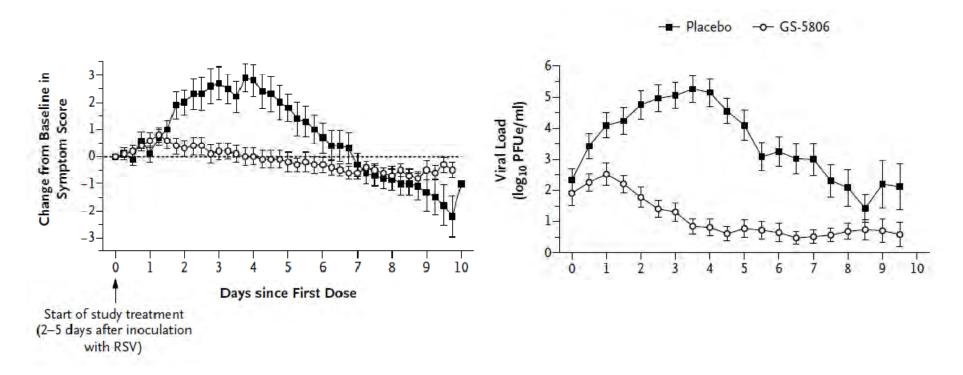
ORIGINAL ARTICLE

Oral GS-5806 Activity in a Respiratory Syncytial Virus Challenge Study

John P. DeVincenzo, M.D., Richard J. Whitley, M.D., Richard L. Mackman, Ph.D., Cecilia Scaglioni-Weinlich, M.D., Lisa Harrison, M.L.T., Eric Farrell, B.S., Stephen McBride, B.S., Robert Lambkin-Williams, Ph.D., Robert Jordan, Ph.D., Yan Xin, Ph.D., Srini Ramanathan, Ph.D., Thomas O'Riordan, M.D., Sandra A. Lewis, M.S., Xiaoming Li, Ph.D., Seth L. Toback, M.D., Shao-Lee Lin, M.D., Ph.D., and Jason W. Chien, M.D. GS-5806 is a novel oral small molecule that inhibits RSV entry at low nanomolar concentrations by blocking viral-envelope fusion with the host-cell membrane (for details see the Supple-



Administración de la droga vía oral, al comenzar los síntomas o 5 días después de la inoculación intranasal de VRS en adultos.



CONCLUSIONS

Treatment with GS-5806 reduced the viral load and the severity of clinical disease in a challenge study of healthy adults. (Funded by Gilead Sciences; ClinicalTrials.gov number, NCT01756482.)

The Impact of Viral Dynamics on the Clinical Severity of Infants With Respiratory Syncytial Virus Bronchiolitis

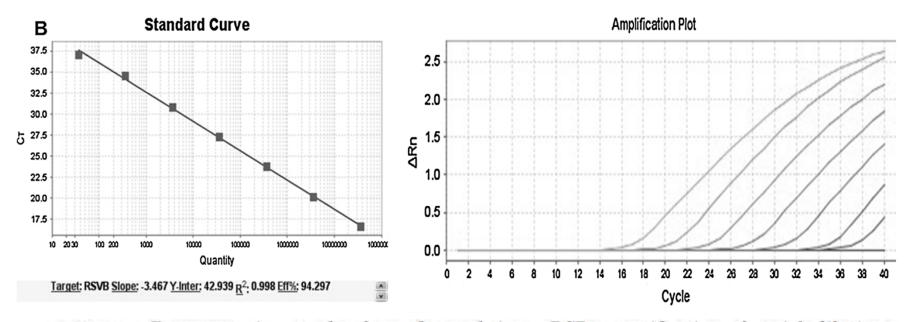


Fig. 1. Representative results from the real-time qPCR quantification of serial dilutions of RSVA and RSVB plasmids (10¹–10⁷copies/reaction). The baseline-corrected fluorescence was plotted against the cycle number. A: Standard curve and amplification plot of RSVA.

Dynamic RSV Load and Clinical Severity

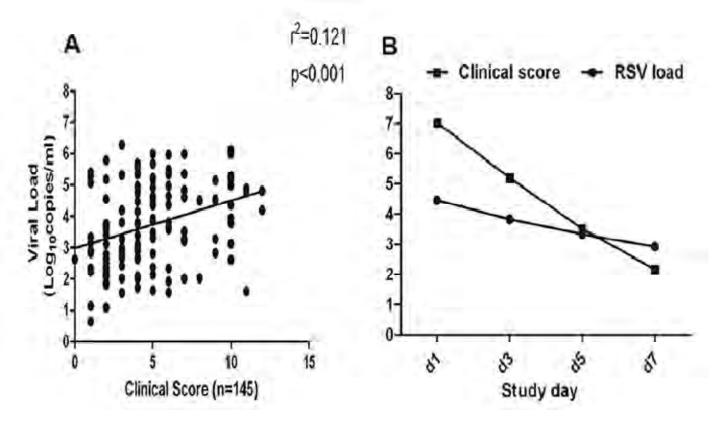
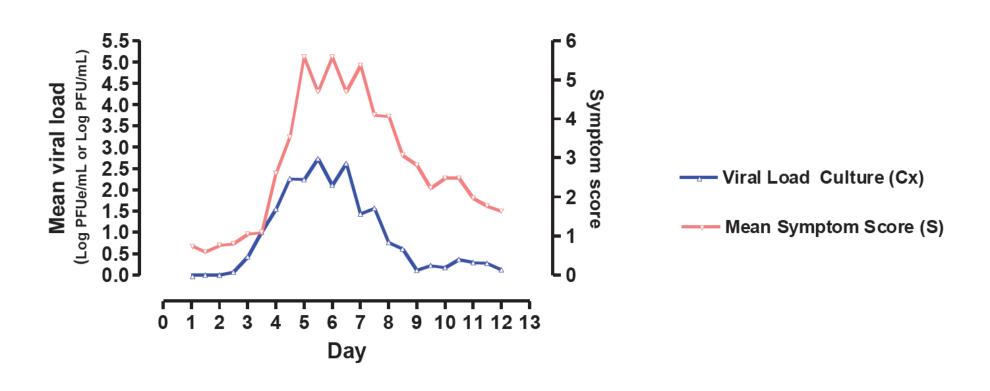
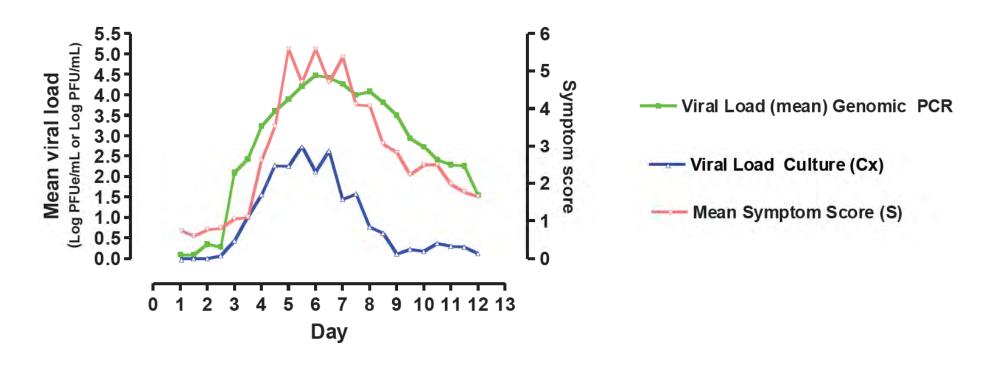


Fig. 3. A: Relationship between the clinical score and RSV load, as determined by correlation analysis. These points are all of the points from all of the patients at all of the collection time points with the exception of the 15 specimens mentioned in Figure 2. B: Timing of mean RSV load and clinical score. The mean data from all of the infected infants from each collection time point

Viral Load Drives Disease in Humans Experimentally Infected with Respiratory Syncytial Virus



RSV Clinical Disease and Viral Replication (PCR)

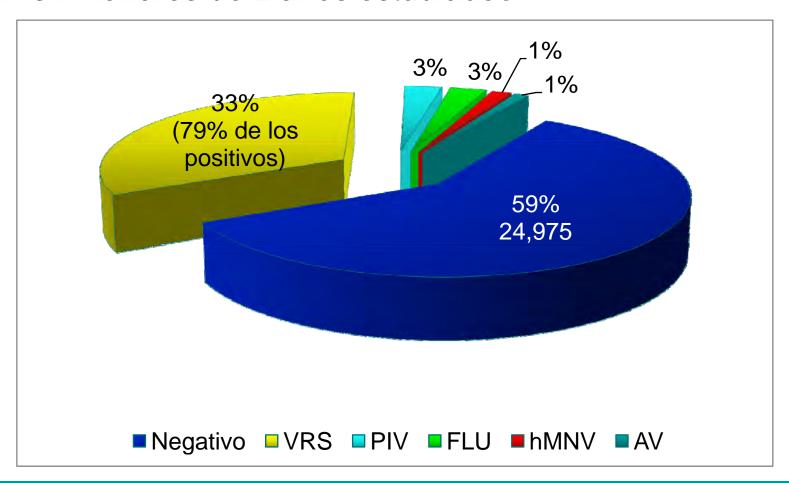


La PCR en Tiempo Real detecta al VSR por mayor tiempo, con una excelente correlación con los síntomas



Sistema Nacional de Vigilancia Epidemiológica por Laboratorios de Argentina (SIVILA – SNVS)

42.481 menores de 2 años estudiados



ORIGINAL STUDIES

Viral Etiology of Acute Respiratory Infections in Hospitalized and Outpatient Children in Buenos Aires, Argentina

Débora Natalia Marcone, MSc,* Alejandro Ellis, MD,† Cristina Videla, PhD,* Jorge Ekstrom, MD,† Carmen Ricarte, MLT,* Guadalupe Carballal, MD, PhD,* Santiago Manuel Vidaurreta, MD,† and Marcela Echavarría, PhD*

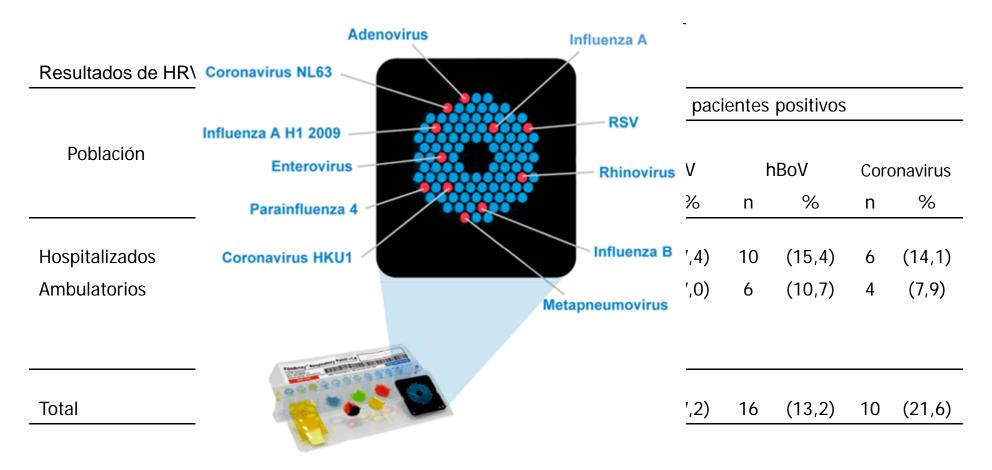
| | | Total | Total | | | Virus | s detectado | | | |
|----------------|---------|------------|------------|------------|------------|----------|-------------|----------|----------|----------|
| Poblaci | ón | Negativos | Positivos | HRV | RSV | hMPV | FluA | PIV | AdV | FluB |
| | | n (96) | n (96) | n (96) | n (96) | n (%) | n (%) | n (96) | n (96) | n (%) |
| Hospitalizados | (n=434) | 73 (16,8) | 361 (83,2) | 202 (46,5) | 136 (31,3) | 40 (9,2) | 14 (3,2) | 6 (1,4) | 14 (3,2) | 3 (0,7) |
| Ambulatorios | (n=186) | 71 (38,2) | 115 (61,8) | 50 (26,9) | 29 (15,6) | 13 (7,0) | 7 (3,8) | 14 (7,5) | 1 (0,5) | 9 (4,8) |
| Total | (n=620) | 144 (23,2) | 476 (76,8) | 252 (40,6) | 165 (26,6) | 53 (8,5) | 21 (3,4) | 20 (3,2) | 15 (2,4) | 12 (1,9) |

El diagnóstico de los virus respiratorios se realizó por IFI para: sincicial respiratorio (RSV), influenza A y B (FluA, FluB), parainfluenza (PIV), adenovirus (AdV); IFD para metapneumovirus (hMPV) y RT-PCR en tiempo real para rinovirus (HRV).

Detecting 20 Respiratory pathogens simultaneously in a rapid and closed format: The Filmarray Multiplex PCR Device

Echavarría M¹, Marcone D¹, Ricarte C¹, Videla C¹, Vidaurreta S¹, Bourzac K², Kanack K², Poritz M², Carballal G¹.

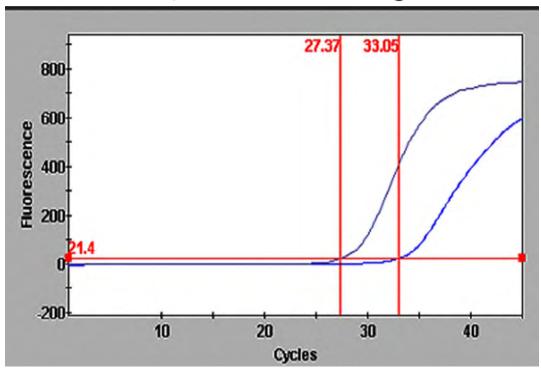
¹Cemic University Hospital Buenos Aires, Argentina and ²IDAHO Technology, Salt Lake City, UT, USA

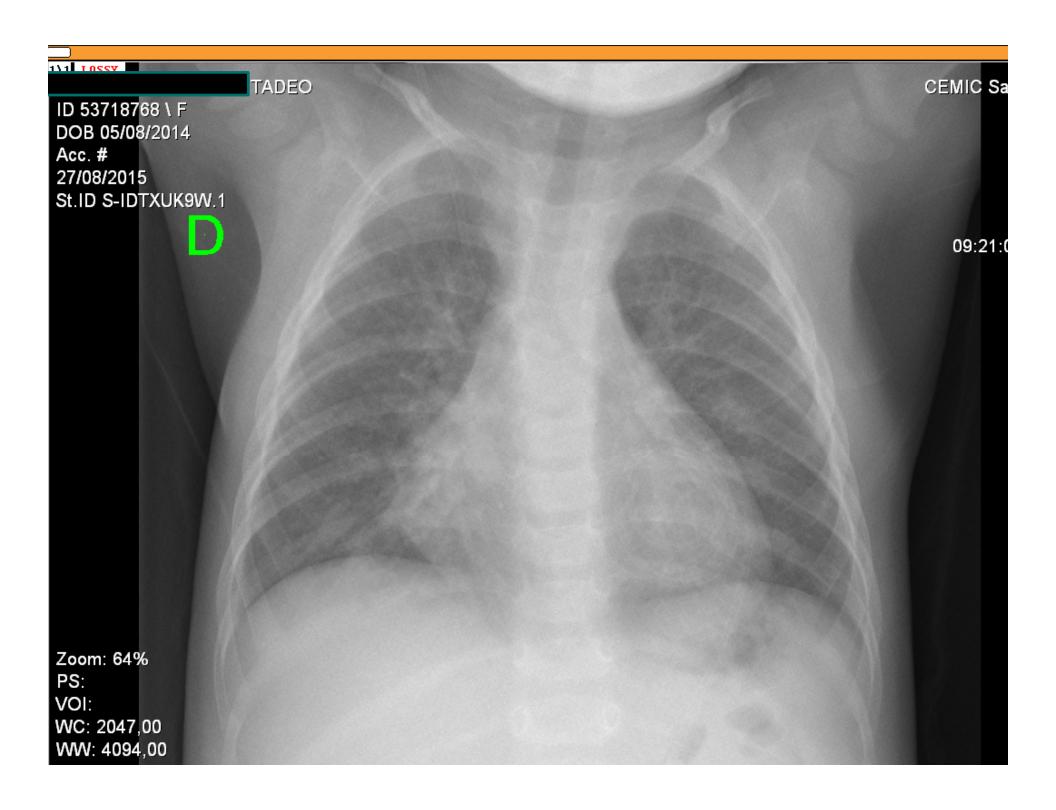


Rhinovirus detection by real-time RT-PCR in children with acute respiratory infection in Buenos Aires, Argentina

DÉBORA N. MARCONE¹, CRISTINA VIDELA¹, CARMEN RICARTE¹, GUADALUPE CARBALLAL¹, SANTIAGO VIDAURRETA², MARCELA ECHAVARRÍA¹

¹Unidad de Virología y Laboratorio de Virología Clínica y ²Departamento de Pediatría, Centro de Educación Médica e Investigaciones Clínicas (CEMIC) Hospital Universitario. Av. Galván 4102, Buenos Aires, Argentina. *Correspondence. E-mail: mechavarriaf@hotmail.com





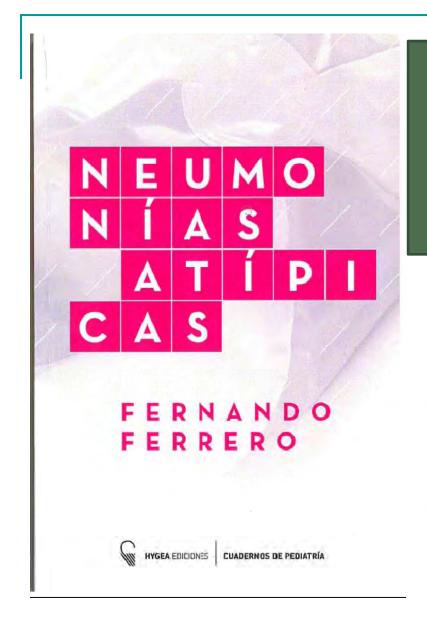


CLASIFICACION INTERNACIONAL DE LAS ENFERMEDADES, ICD-10

NEUMONITIS 🗮

| | J18.9 | Neumonitis (aguda) (primaria) (ver también Neumonía) |
|--------|-------|--|
| - | J67.7 | Neumonitis por aire acondicionado |
| >1 | J67.9 | Neumonitis alérgica |
| | J67.9 | Neumonitis alérgica debida a polvo orgánico |
| | J67.8 | Neumonitis alérgica debida a polvo especificado NCOP |
| I. | J67.8 | Neumonitis alérgica debida a secoyosis |
| | J69.0 | Neumonitis por aspiración |
| ă, | J69.1 | Neumonitis por aspiración de aceites y esencias |
| W | J69.0 | Neumonitis por aspiración de alimento(s) |
| î | J95.4 | Neumonitis por aspiración debida a anestesia |
| | 029.0 | Neumonitis por aspiración debida a anestesia durante el embarazo |
| ļ, | 089.0 | Neumonitis por aspiración debida a anestesia durante el puerperio |
| | 074.0 | Neumonitis por aspiración debida a anestesia durante el trabajo de parto y parto |
| | J69.0 | Neumonitis por aspiración de leche |
| W | P24.9 | Neumonitis por aspiración neonatal |
| | J69.8 | Neumonitis por aspiración de sangre |
| | J69.0 | Neumonitis por aspiración de secreciones gástricas |
| | J69.8 | Neumonitis por aspiración de sólidos y líquidos especificados NCOP |
| Ħ | J69.0 | Neumonitis por aspiración de vómito |
|): | J84.8 | Neumonitis por colesterol |
| | J69.1 | Neumonitis debida a aceites y esencias |
| | | Neumonitis debida a aspiración (ver Neumonitis, aspiración) |
| | | |

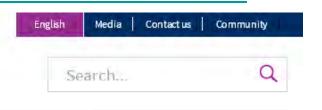
| J. | J67.1 | Neumonitis debida a bagazo de la caña de azúcar | |
|-------|---------------|---|----|
| V | J68.0 | Neumonitis debida a berilo | |
| | J68.0 | Neumonitis debida a cadmio | |
| | J69.0 | Neumonitis debida a comida o vómito (aspiración) | |
| 8 · 3 | J69.8 | Neumonitis debida a detergentes | |
| E | J68.0 | Neumonitis debida a humos y vapores (inhalación) | 98 |
| 0 1 | J68.0 | Neumonitis debida a inhalación de gases, humos, vapores y sustancias químicas | |
| | J68.0 | Neumonitis debida a manganeso | |
| | J68.0 | Neumonitis debida a nitrógeno dióxido | |
| | J68.0 | Neumonitis debida a polímeros fluorocarbonados | |
| | J69.8 | Neumonitis debida a sólidos y líquidos NCOP | |
| 311 | B58.3 - J17.3 | Neumonitis debida a toxoplasmosis (adquirida) | |
| | P37.1 - J17.3 | Neumonitis debida a toxoplasmosis congénita | |
| | J68.0 | Neumonitis debida a vanadium | |
| NA LE | J82 | Neumonitis eosinófila | |
| 1000 | J67.9 | Neumonitis por hipersensibilidad (ver también Neumonitis, alérgica) | |
| | B22.1 | Neumonitis linfoide intersticial resultante de enfermedad por VIH (SIDA) | |
| S | P24.0 | Neumonitis por meconio | |
| 16 | 029.0 | Neumonitis postanestésica en embarazo | |
| u, | 074.0 | Neumonitis postanestésica en trabajo de parto o parto | |
| | 089.0 | Neumonitis postanestésica en postparto, puerperal | |
| - 1 | T41.2 | Neumonitis por sobredosis o sustancia errónea administrada o tomada | |
| 2 - y | | Neumonitis por sobredosis de anestésico especificado (ver Tabla de medicamentos y productos químicos) | |
| E O | J95.8 | Neumonitis por sobredosis de sustancia correcta, administrada apropiadamente | |
| 6 | J95.8 | Neumonitis postoperatoria | |
| | J68.0 | Neumonitis química, debida a humos, gases y vapores (inhalación) | |
| | J70.0 | Neumonitis por radiación | |
| | P35.0 | Neumonitis por rubéola, congénita | |
| | J67.7 | Neumonitis por ventilación (aire acondicionado) (humidificador) | |
| 311 | | | |
| | | | |



En la actualidad, suele utilizarse el término «neumonía atípica» para designar aquella patología respiratoria infecciosa que presenta disociación entre el cuadro clínico y lo que se esperaría observar en la radiografía, es decir, que no presenta una consolidación lobar, segmentaria o subsegmentaria

... Si bien éste término se utiliza en lo cotidiano, su alcance debería reservarse para aquellas entidades de comportamiento clínico o epidemiológico verdaderamente atípico. Los microorganismos habituales (virus, *Mycoplasma pneumoniae,* clamidias) suelen presentar cuadros clínicos bastante característicos, por lo que la denominación de «atípico» es imprecisa.





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Comparing treatment of non-severe pneumonia in children aged 2 to 59 months with and without antibiotics

Authors' conclusions:

There is a clear need for <u>RCTs</u> to address this question in representative populations. We do not currently have evidence to support or challenge the continued use of antibiotics for the treatment of non-severe pneumonia, as suggested by WHO guidelines.

No encontramos evidencias en la actualidad que avalen la utilización de antibióticos para el tratamiento de neumonías «no severas» como sugiere la OMS

Published: 26 May 2014

Antibiotics for community-acquired lower respiratory tract infections secondary to Mycoplasma pneumoniae in children (Review)

Gardiner SJ, Gavranich JB, Chang AB



The Cochrane Library. **Published:** 8 January 2015

Quality of evidence

Overall the quality of the evidence for each of the main outcomes is very low as there are insufficient data for any outcome. Hence, currently, there is insufficient evidence to show conclusively that antibiotics are effective in children with LRTI caused by M. pneumoniae.

Sigue existiendo una necesidad de estudios de alta calidad, doble ciegos, randomizados y controlados para demostrar la eficacia y seguridad de los antibióticos para IRAB por *M. pneumoniae* en niños

There is insufficient evidence to draw any specific conclusions about the efficacy of antibiotics for this condition in children (although one trial suggests macrolides may be efficacious in some children with LRTI secondary to Mycoplasma). The use of antibiotics has to be balanced with possible adverse events. There is still a need for high quality, double-blinded RCTs to assess the efficacy and safety of antibiotics for LRTI secondary to M. pneumoniae in children.

Read the full abstract...

THE ROLE OF RESPIRATORY VIRAL INFECTIONS AMONG CHILDREN HOSPITALIZED FOR COMMUNITY-ACQUIRED PNEUMONIA IN A DEVELOPING COUNTRY

Cristiana M. Nascimento-Carvalho, MD, PhD,*

Abstract: We report an investigation for 16 bacteria and viruses among 184 children hospitalized with pneumonia in Salvador, Brazil. Etiology was established in 144 (78%) cases. Viral, bacterial, and mixed infections were found in 110 (60%), 77 (42%), and 52 (28%) patients, respectively. Rhinovirus (21%) and *Streptococcus pneumoniae* (21%) were the most common pathogens. Our results demonstrate the importance of viral and pneumococcal infections among those patients.

M.

pneumoniae infections were significantly more common in children ≥ 2 years of age (15%) than in those ≤ 2 years of age (3%) (P = 0.005).

Detecting 20 Respiratory pathogens simultaneously in a rapid and closed format: The Filmarray Multiplex PCR Device

Echavarría M¹, Marcone D¹, Ricarte C¹, Videla C¹, Vidaurreta S¹, Bourzac K², Kanack K², Poritz M², Carballal G¹.

¹Cemic University Hospital Buenos Aires, Argentina and ²IDAHO Technology, Salt Lake City, UT, USA

| | Hospitalizados (n = 68) | | Ambulat $(n = 5)$ | |
|---------------|----------------------------|------|-------------------|------|
| M. pneumoniae | 2 | 2,9 | 0 | 0,0 |
| B. Pertussis | 1 | 1,5 | 0 | 0,0 |
| PIV4 | 1 | 1,5 | 0 | 0,0 |
| Coinfecciones | | | | |
| Dobles | 23 | 33,8 | 12 | 21,1 |
| Triples | 6 | 8,8 | 3 | 5,3 |
| Negativos | 3 | 4,4 | 1 | 1,8 |

Clinical efficacy of macrolide antibiotics against genetically determined macrolide-resistant *Mycoplasma pneumoniae* pneumonia in paediatric patients

YASUHIRO KAWAI,¹ NAOYUKI MIYASHITA,² TETSUYA YAMAGUCHI,¹ AKI SAITOH,¹ EISUKE KONDOH,¹ HIROKI FUJIMOTO,¹ HIDETO TERANISHI,¹ MIKA INOUE,¹ TOKIO WAKABAYASHI,¹ HIROTO AKAIKE,¹ SATOKO OGITA,¹ KOZO KAWASAKI,¹ KIHEI TERADA,¹ FUMIO KISHI³ AND KAZUNOBU OUCHI¹

Departments of ¹Pediatrics, ²Internal Medicine 1 and ³Molecular Genetics, Kawasaki Medical School, Okayama, Japan

SUMMARY AT A GLANCE

There have been no studies evaluating the microbiological efficacy of macrolides in patients with macrolide-resistant (MR) *Mycoplasma pneumoniae* infections. This study showed that the microbiological and clinical efficacies of macrolides for treating patients with MR *M. pneumoniae* pneumonia were low.

Este estudio demuestra que la eficacia clínica y microbiológica de los macrólidos para tratar pacientes con *M. pneumoniae* resistente a los macrólidos es baja

Macrolide-Resistant Mycoplasma pneumoniae, United States¹

Emerging Infectious Diseases • www.cdc.gov/eid • Vol. 21, No. 8, August 2015

Using genotypic and phenotypic methods, we detected high-level MRMP in 13.2% of 91 *M. pneumoniae*—positive specimens from 6 US locations.

Clinical outcomes and macrolide resistance in Mycoplasma pneumoniae infection in Scotland, UK

Journal of Medical Microbiology (2013), 62, 1876-1882

Macrolide resistance conferred by the 23S rRNA gene mutation was found in samples from 6 out of 32 patients (19%) in the subset tested. The results suggest that the recent *M. pneumoniae* epidemic was associated with a significant burden of hospital admission locally. The study also describes the first case series of macrolide-resistant *M. pneumoniae* in the UK, indicating that macrolide resistance surveillance is warranted in preparation for the next epidemic.

Macrolide Resistance in *Mycoplasma pneumoniae*, Israel, 2010

Diana Averbuch,¹ Carlos Hidalgo-Grass,¹ Allon E. Moses, Dan Engelhard, and Ran Nir-Paz

Conclusions

The observed rate of resistance in our hospital-based nations in the current surge of *M. pneumoniae*—associated cases is 30%.

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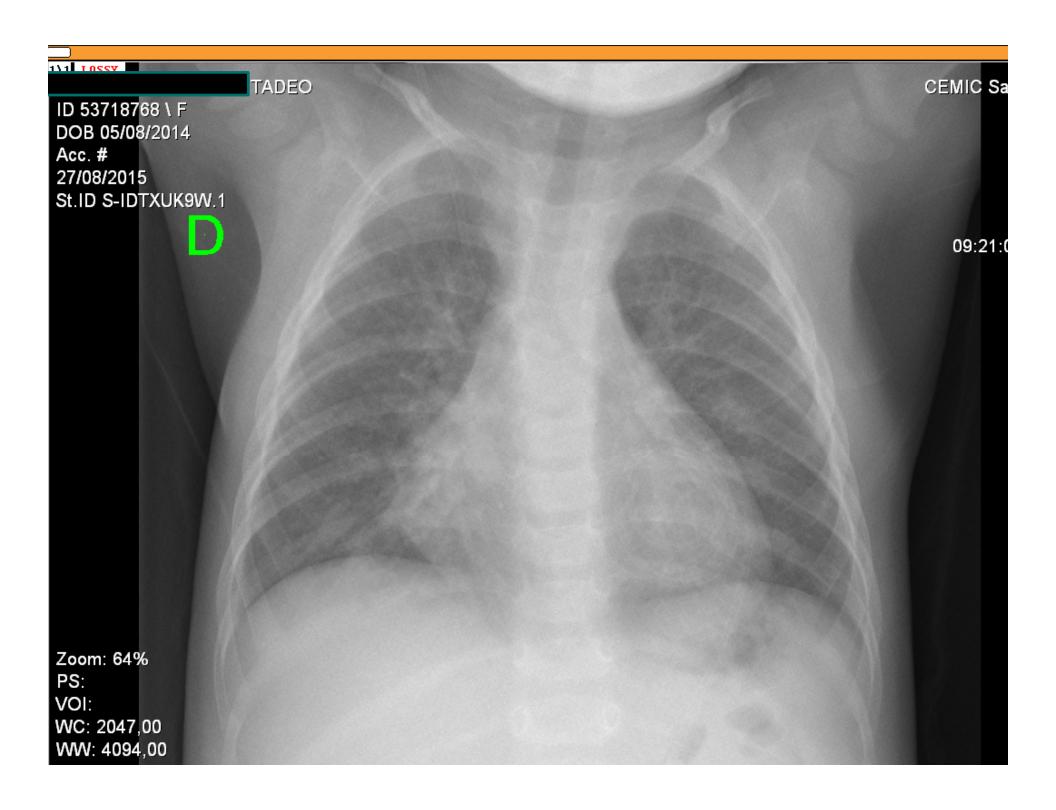
Molecular Mechanisms of Macrolide Resistance in Clinical Isolates of Mycoplasma pneumoniae from China[∇]

Deli Xin,¹* Zuhuang Mi,² Xu Han,³ Ling Qin,² Jing Li,¹ Tianli Wei,¹ Xiaogeng Chen,¹ Shaojie Ma,¹ Ancun Hou,¹ Gui Li,¹ and Dawei Shi¹

Fifty clinical *Mycoplasma pneumoniae* strains were isolated from 370 children with respiratory tract infections. Four strains were susceptible to macrolides, while the other 46 (92%) were macrolide resistant. The molecular mechanism of resistance was shown to be associated with point mutations in 23S rRNA at positions 2063 and 2064.

Cincuenta cepas *Mycoplasma pneumoniae* fueron aisladas de 370 niños con infecciones de las vías respiratorias. Cuatro cepas fueron sensibles a macrólidos, mientras que las otras 46 (92%) fueron resistentes a macrólidos. Los mecanismos moleculares de la resistencia han demostrado estar asociados con mutaciones puntuales en rRNA 23S en las posiciones 2063 y 2064.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, May 2009, p. 2158–2159



SOLO USO INTERNO

Nº Doc. 53718768



Paciente: TADEO Nº Historia Clínica: 140805915

Edad: 1 Años 0 Meses 21 Días Sexo: M

Tipo Doc: DNI

Convenio: GALENO ARGENTINA S.A.

Plant 900

Nº Afiliado: 017871370101 Sucursal/Orden: 2/1398612

| Estudio VSR-ANTIGENO (VIRUS SINCICIAL RESPIRATORIO) | Determinación VSR VIRUS SINCICIAL ANTIGENO | Resultado NEGATIVO | C. VIII COLUMN | Valor |
|--|--|-----------------------|----------------|-------|
| VSR=ANTIGENO (VIRUS SINCICIAL RESPIRATORIO) | MUESTRA VIRUS SINCICIAL ANTIGE | ANF | | |
| ADENOVIRUS=ANTIGENO | ADENOVIRUS ANTIGENO | NEGATIVO | | |
| ADENOVIRUS=ANTIGENO | MUESTRA ADENOVIRUS ANTIGENO | ANF | | |
| INFLUENZA A-ANTIGENO | INFLUENZA A-ANTIGENO | NEGATIVO | | |
| INFLUENZA A-ANTIGENO | MUESTRA INFLUENZA A-ANTIGENO | ANF | | |
| INFLUENZA B=ANTIGENO | INFLUENZA B=ANTIGENO | NEGATIVO | | |
| INFLUENZA B=ANTIGENO | MUESTRA INFLUENZA B-ANTIGENO | ANF | | |
| PARAINFLUENZA 1-3-ANTIGENO | PARAINFLUENZA ANTIGENO | NEGATIVO | | |
| PARAINFLUENZA 1-3-ANTIGENO | MUESTRA PARAINFLUENZA ANTIGENO | ANF | | |
| RINOVIRUS PCR | RINO VIRUS PCR | POSITIVO | | |

Muchas Gracias

svidaurreta@gmail.com

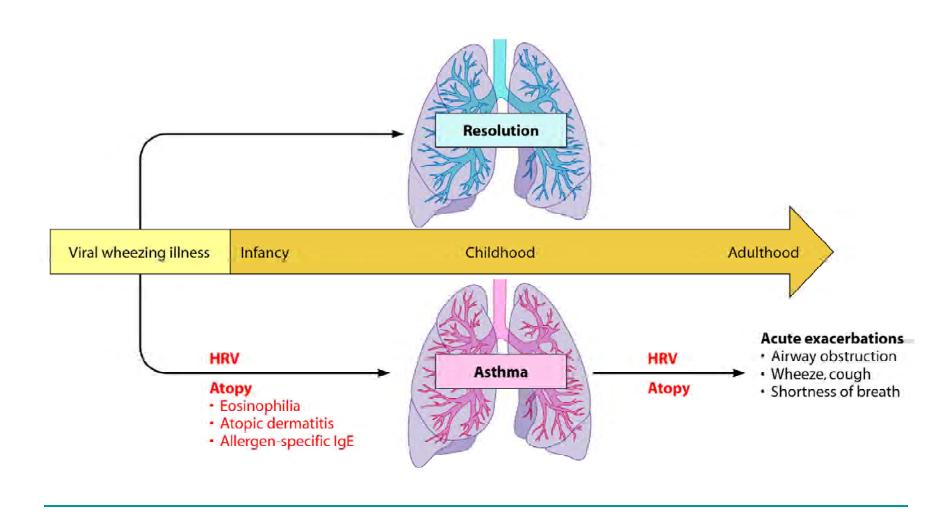
Exacerbaciones asmáticas. Etiología

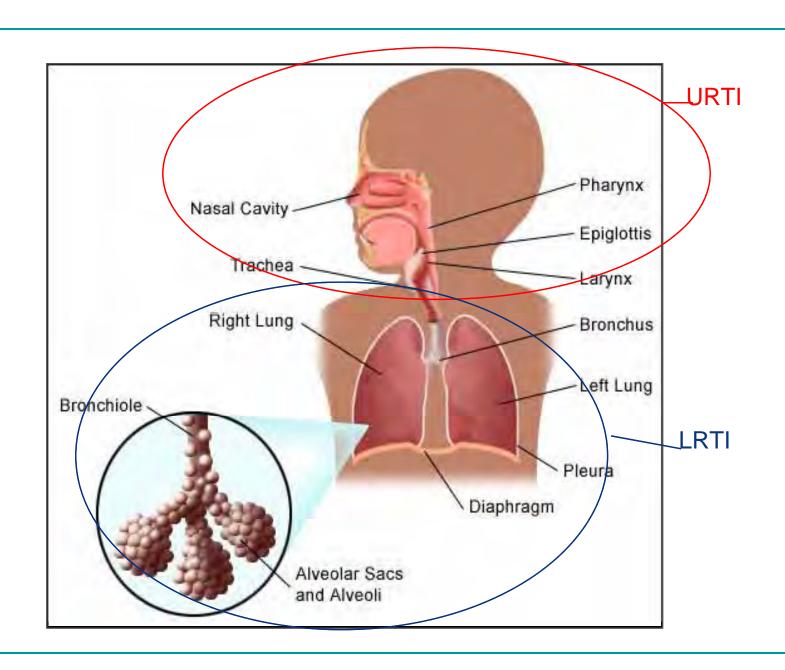
Asociación de virus con exacerbaciones

•2/3 de las detecciones corresponden a RVH



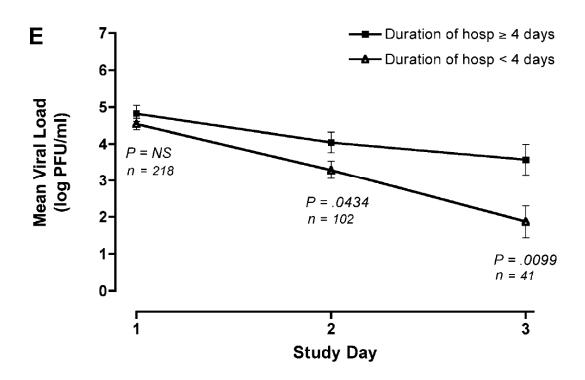
Relación entre RVH y asma





Respiratory Syncytial Virus Load, Viral Dynamics, and Disease Severity in Previously Healthy Naturally Infected Children

Chadi M. El Saleeby, Andy J. Bush, Lisa M. Harrison, J. Jody A. Aitken, And John P. DeVincenzo J. 4,5,6



La PCR ha aumentado la detección viral en sujetos asintomáticos

- Revisión de la literatura desde 1965 hasta el presente.
- 51 artículos; n ~ 15.000 muestras
- Prevalencia de virus respiratorios en muestras de secreciones de individuos asintomáticos

| Virus | PCR + | Convencional + | р |
|-------|-----------------|------------------|--------|
| HRV | 15% (365/2416) | 1.5% (255/14669) | 0.0001 |
| RSV | 2,6% (51/1974) | 0.7% (23/3175) | 0.0001 |
| AdV | 5.3% (103/1958) | 1.8% (40/2175) | 0.0001 |

THE ROLE OF RESPIRATORY VIRAL INFECTIONS AMONG CHILDREN HOSPITALIZED FOR COMMUNITY-ACQUIRED PNEUMONIA IN A DEVELOPING COUNTRY

Cristiana M. Nascimento-Carvalho, MD, PhD,*

Abstract: We report an investigation for 16 bacteria and viruses among 184 children hospitalized with pneumonia in Salvador, Brazil. Etiology was established in 144 (78%) cases. Viral, bacterial, and mixed infections were found in 110 (60%), 77 (42%), and 52 (28%) patients, respectively. Rhinovirus (21%) and *Streptococcus pneumoniae* (21%) were the most common pathogens. Our results demonstrate the importance of viral and pneumococcal infections among those patients.