

1. Datos de Contacto:

Nombre: José A. Castro Rodríguez

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Departamento o División: Pediatría

Nombre de su laboratorio: Programación Fetal y Epigenética.

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Anexos: 8189

2. Líneas de Investigación:

- Asma bronquial: epidemiología, tratamiento, genética y epigenética.
- Bronquiolitis aguda: epidemiología, tratamiento y epigenética.
- Enfermedades respiratorias agudas: neumonías, laringitis obstructivas.
- Enfermedades respiratorias crónicas: bronquiolitis obliterante post-infecciosa, tuberculosis.

3. Proyectos de Investigación:

-FONDECYT-Regular # 1141195 "Early risk of asthma in children exposed to in-utero maternal obesity. An epigenetic-mediated programming of immune function". Dr. Jose A. Castro Rodriguez (Investigador Principal), Ricardo Uauy, Paola Casanello, Bernardo Krause. 2014-2018.

-FONIS #SA08120005 "Eficacia de la kinesioterapia respiratoria en lactantes con crisis obstructivas en la atención primaria" Dr. José A. Castro-Rodríguez (Investigador Principal), Rodrigo Silva, Patricio Tapia, Pamela Salinas, Thomas Leisewitz, Alvaro Tellez, Ignacio Sanchez. 2008-2010.

-VRAID-PUC: #15572008 "Eficacia de la kinesioterapia respiratoria en lactantes con crisis obstructivas en la atención primaria". Dr. José A. Castro-Rodríguez (Investigador Principal), 2008-2010.

Proyectos Inter-Departamentales:

-Financiamiento CIM/PUC: Variables psicosociales en el control del asma en niños del CESFAM Juan Pablo II de La Pintana". Dr. José A. Castro-Rodríguez y Klaus Pitcher (Investigadores Principales), 2011.

Proyectos División de Pediatría:

-Financiamiento División de Pediatría/PUC: "Efficacy of oral corticosteroids in the treatment of acute wheezing episodes in asthmatic preschoolers: systematic review with meta-analysis" Dr. Jose A. Castro-Rodriguez (Investigador Principal), 2015-2016.

Proyectos/Tutoría de Becados: Dr. José A. Castro-Rodríguez (Tutor)

-Financiamiento CIM/PUC: "Tabaquismo pasivo en lactantes y preescolares chilenos según encuestas y cotinina en orina". (Becado Respiratorio Pediátrico: Dra. María Ester Pizarro). 2009 – 2011.

-Financiamiento CIM/PUC y Sociedad Chilena de Neumología Pediátrica: "Déficit de vitamina D se asocia a mayor morbilidad en asma". (Becado Respiratorio Pediátrico: Dra. Helly Eiseyman). 2010-2012.

-Financiamiento CIM/PUC: "Asociación de Leucotrienos Urinarios y Polimorfismo del gen de Receptor de Glucocorticoides con Asthma Predictive Index en Preescolares con Sibilancias Recurrentes". (Becado Pediatría: Dra. Maureen Morales). 2011-2012.

-Sin financiamiento: "Meta-análisis: corticoides inhalados versus orales en niños con crisis asmáticas." (Becados de Pediatría: Drs. Andrea Beckhauss y Ma. Cecilia Riutort). 2011 – 2012.

-Financiamiento CIM/PUC y Sociedad Chilena de Enfermedades Respiratorias. "Función pulmonar y marcadores inflamatorios en preescolares con sibilancias recurrentes y riesgo de asma". (Becado Respiratorio Pediátrico: Dr. Carlos Flores) 2011-2012

-Sin financiamiento. "El Síndrome de Down como factor de riesgo para Infección respiratoria baja severa por Virus respiratorio sincicial." (Becado Pediatría: Dra. Constanza Galleguillos). 2011-2013

-Sin financiamiento: "Cambio epidemiológico en infecciones por Mycoplasma en menores de 5 años". (Becado Pediatría: Dr. Javier Carcey). 2011 – 2013.

-Financiamiento CIM/PUC. "Asociación de polimorfismos de los receptores de glucocorticoides y de la vía de los leucotrienos con asma y obesidad". (Becado Respiratorio Pediátrico: Dra. María Angélica Oyarzun). 2011-2013

-Financiamiento Gobierno Ecuatoriano, Ministerio Educación: "Efectividad del Salbutamol inhalado en dosis medida en la Bronquiolitis: Estudio Clínico Randomizado" (Becado Pediatría: Dras. Andrea Remache y Astrid Pezoa). 2013-2015

-Financiamiento Concurso Dpto. Pediatría/PUC. "Asociación de niveles de Periostín con Índice Predictor de Asma en Preescolares con Sibilancias Recurrentes". (Becado Pediatría: Dra. Ingrid Atton). 2013-2015

-Financiamiento Sociedad Chilena Neumología Pediátrica. "Asociación de niveles de arginasa I y fracción exhalada de óxido nítrico con índice predictor de asma en preescolares con sibilancias recurrentes". (Becado Respiratorio Pediátrico: Dra. Guisella Villarroel). 2013-2015

4. Publicaciones:

Journal (peer review) ISI:

1. Brodli M, Gupta A, Rodriguez-Martinez CE, **Castro-Rodriguez JA**, Ducharme FM, McKean MC. Leukotriene receptor antagonists as maintenance and intermittent therapy for episodic viral wheeze in children. *Cochrane Database Syst Rev*. 2015 Oct 19;10:CD008202. doi: 10.1002/14651858.CD008202.pub2.
2. Rodríguez-Martínez CE, **Castro-Rodriguez JA**. Children under 12 months could benefit from a therapeutic trial with bronchodilators if the clinical response is positive. *Acta Paediatr*. 2015 Sep 19. doi: 10.1111/apa.13218. [Epub ahead of print].
3. Casanello P, Krause BJ, **Castro-Rodriguez JA**, Uauy R. [Fetal programming of chronic diseases: Current concepts and epigenetics]. *Rev Chil Pediatr*. 2015 May-Jun;86(3):135-7.
4. **Castro-Rodriguez JA**, J Rodrigo G, E Rodríguez-Martínez C. Principal findings of systematic reviews of acute asthma treatment in childhood. *J Asthma*. 2015 Aug 25:1-8. [Epub ahead of print] PubMed PMID: 26303207.
5. Beckhaus AA, Garcia-Marcos L, Forno E, Pacheco-Gonzalez RM, Celedón JC, **Castro-Rodriguez JA**. Maternal nutrition during pregnancy and risk of asthma, wheeze and atopic diseases during childhood: a systematic review and meta-analysis. *Allergy*. 2015 Aug 22. doi: 10.1111/all.12729. [Epub ahead of print] PubMed PMID: 26296633.
6. Rodrigo GJ, **Castro-Rodríguez JA**. Tiotropium for the treatment of adolescents with moderate to severe symptomatic asthma: a systematic review with meta-analysis. *Ann Allergy Asthma Immunol*. 2015 Jul 28. pii: S1081-1206(15)00445-7. doi: 10.1016/j.anai.2015.06.029. [Epub ahead of print] PubMed PMID: 26231467.
7. Forno E, Gogna M, Cepeda A, Yañez A, Solé D, Cooper P, Avila L, Soto-Quiros M, **Castro-Rodriguez JA**, Celedón JC. Asthma in Latin America. *Thorax*. 2015 Jun 23. pii: thoraxjnl-2015-207199. doi: 10.1136/thoraxjnl-2015-207199. [Epub ahead of print] Review. PubMed PMID: 26103996.
8. Rodriguez-Martinez CE, **Castro-Rodriguez JA**. Bronchodilators should be considered for all patients with acute bronchiolitis, but closely monitored for objectively measured clinical benefits. *Acta Paediatr*. 2015 May 25. doi:10.1111/apa.13051. [Epub ahead of print] PubMed PMID: 26014586.
9. Einisman H, Reyes ML, Angulo J, Cerda J, López-Lastra M, **Castro-Rodriguez JA**. Vitamin D levels and vitamin D receptor gene polymorphisms in asthmatic children: a case-control study. *Pediatr Allergy Immunol*. 2015 May 22. doi:10.1111/pai.12409. [Epub ahead of print] PubMed PMID: 26011658.

10. Morales M, Flores C, Pino K, Angulo J, López-Lastra M, **Castro-Rodríguez JA**. Urinary leukotriene and Bcl I polymorphism of glucocorticoid receptor gene in preschoolers with recurrent wheezing and high risk of asthma. *Allergol Immunopathol (Madr)*. 2015 May 13. pii: S0301-0546(15)00056-7. doi:10.1016/j.aller.2015.02.003. [Epub ahead of print] PubMed PMID: 25982579.
11. Rodrigo GJ, **Castro-Rodríguez JA**. Response. *Chest*. 2015 May;147(5):e196. doi: 10.1378/chest.15-0194. PubMed PMID: 25940271.
12. **Castro-Rodríguez JA**, Rodríguez-Martínez CE, Sossa-Briceño MP. Principal findings of systematic reviews for the management of acute bronchiolitis in children. *Paediatr Respir Rev*. 2015 Jan 9. pii: S1526-0542(15)00003-2. doi: 10.1016/j.prrv.2014.11.004.
13. Rodrigo GJ, **Castro-Rodríguez JA**. What is the role of tiotropium in asthma? A systematic review with meta-analysis? *Chest*. 2015; 147:388-96.
14. Caussade S, **Castro-Rodríguez JA**, Contreras S, Bugueño R, Ramirez R, Padilla O, Einisman H, Holmgren N. Methacholine challenge test by wheezing and oxygen saturation in preschool children with asthma. *Allergol Immunopathol (Madr)*. 2015; 43:174-9.
15. Pérez-Yarza EG, **Castro-Rodríguez JA**, Villa Asensi JR, Garde Garde J, Hidalgo Bermejo FJ; en representación del Grupo VESCAI. [Validation of a Spanish version of the childhood asthma control test (Sc-ACT) for use in Spain.]. *An Pediatr (Barc)*. 2014 Dec 30. pii: S1695-4033(14)00541-4.
16. **Castro-Rodríguez JA**, Rodrigo GJ, Rodríguez-Martínez CE. Principal findings of systematic reviews for chronic treatment in childhood asthma. *J Asthma*. 2014;29:1-10.
17. **Castro-Rodríguez JA**. Another predictive score for childhood asthma: the search remains. *J Allergy Clin Immunol Pract*. 2014;2:716-8
18. **Castro-Rodríguez JA**, Jakubson L, Padilla O, Gallegos D, Fasce R, Bertrand P, Sanchez I, Perret C. Many respiratory viruses have temporal association with meningococcal disease. *Allergol Immunopathol (Madr)*. 2014 Nov 18. pii: S0301-0546(14)00141-4. doi: 10.1016/j.aller.2014.07.005.
19. Rodríguez-Martínez CE, Nino G, **Castro-Rodríguez JA**. Cost-utility analysis of daily versus intermittent inhaled corticosteroids in mild-persistent asthma. *Pediatr Pulmonol*. 2014 Jun 25. doi: 10.1002/ppul.23073. [Epub ahead of print] PubMed PMID: 24965279.
20. Linares Passerini M, Meyer Peirano R, Contreras Estay I, Delgado Becerra I, **Castro-Rodríguez JA**. Utility of bronchodilator response for asthma diagnosis in Latino preschoolers. *Allergol Immunopathol (Madr)*. 2014; 42:553-9.
21. **Castro-Rodríguez JA**, Sanchez I. Chest physiotherapy for acute wheezing episodes: an inappropriate interpretation of the first trial in outpatient infants. *Acta Paediatr*. 2014 Aug;103(8):e326-7.
22. **Castro-Rodríguez JA**, Giubergia V, Fischer GB, Castaños C, Sarria EE, Gonzalez R, Mattiello R, Vega-Briceño LE, Murtagh P. Postinfectious bronchiolitis obliterans in children: the South American contribution. *Acta Paediatr*. 2014;103(9):913-21.

23. Rodríguez-Martínez CE, Nino G, **Castro-Rodríguez JA**. Validation of the Spanish Version of the Test for Respiratory and Asthma Control in Kids (TRACK) in a Population of Hispanic Preschoolers. J Allergy Clin Immunol Pract. 2014;2:326-331.e3.
24. Brockmann PE, Bertrand P, **Castro-Rodríguez JA**. Influence of asthma on sleep disordered breathing in children: A systematic review. Sleep Med Rev. 2014;18:393-7.
25. **Castro-Rodríguez JA**, Silva R, Tapia P, Salinas P, Tellez A, Leisewitz T, Sanchez I. Chest physiotherapy is not clinically indicated for infants receiving outpatient care for acute wheezing episodes. Acta Paediatr. 2014; 103:518-23
26. Rodríguez-Martínez CE, Sossa-Briceño MP, **Castro-Rodríguez JA**. Predictors of hospitalization for asthma in children: Results of a 1-year prospective study. Pediatr Pulmonol. 2014;49:1058-64.
27. Rodrigo GJ, **Castro-Rodríguez JA**. Heliox-driven β 2-agonists nebulization for children and adults with acute asthma: a systematic review with meta-analysis. Ann Allergy Asthma Immunol. 2014;112:29-34.
28. Beckhaus AA, Riutort MC, **Castro-Rodríguez JA**. Inhaled versus systemic corticosteroids for acute asthma in children. A systematic review. Pediatr Pulmonol. 2014; 49: 326-34.
29. **Castro-Rodríguez JA**, Molina RO, Cáceres M, Recabarren A. Correlation between nitrites in induced sputum and asthma symptoms in asthmatic schoolchildren. Pediatr Pulmonol. 2014; 49: 214-20.
30. **Castro-Rodríguez JA**. The necessity of having asthma predictive scores in children. J Allergy Clin Immunol. 2013;132:1311-3.
31. Del Rio-Navarro BE, Blandon-Vijil V, Escalante-Domínguez AJ, Berber A, **Castro-Rodríguez JA**. Effect of obesity on bronchial hyperreactivity among latino children. Pediatr Pulmonol. 2013;48:1201-05.
32. Rodrigo GJ, **Castro-Rodríguez JA**. Daily vs. intermittent inhaled corticosteroids for recurrent wheezing and mild persistent asthma: a systematic review with meta-analysis. Respir Med. 2013;107:1133-40.
33. Soto-Ramos M, **Castro-Rodríguez JA**, Hinojos-Gallardo LC, Hernández-Saldaña R, Cisneros-Castolo M, Carrillo-Rodríguez V. Fractional exhaled nitric oxide has a good correlation with asthma control and lung function in latino children with asthma. J Asthma. 2013;50:590-4.
34. Garcia-Marcos L, **Castro-Rodríguez JA**, Weinmayr G, Panagiotakos DB, Priftis KN, Nagel G. Influence of Mediterranean diet on asthma in children: a systematic review and meta-analysis. Pediatr Allergy Immunol. 2013;24:330-8.
35. Saranz RJ, Lozano A, Lozano NA, **Castro Rodríguez JA**. [Diagnostic and treatment approach of chronic cough in childhood]. Arch Argent Pediatr. 2013;111:140-7.
36. Rodríguez-Martínez CE, Sossa-Briceño MP, **Castro-Rodríguez JA**. Cost-utility analysis of the inhaled steroids available in a developing country for the

- management of pediatric patients with persistent asthma. J Asthma. 2013;50:410-8.
37. **Castro-Rodriguez JA**, Sardón O, Pérez-Yarza EG, Korta J, Aldasoro A, Corcuera P, Mintegui J. Young infants with recurrent wheezing and positive asthma predictive index have higher levels of exhaled nitric oxide. J Asthma. 2013;50:162-5.
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 39. **Castro-Rodriguez JA**, Rodrigo GJ. Efficacy of inhaled corticosteroids in wheezy infants/preschoolers. Respir Med. 2013;107:153-4.
 40. Rodriguez-Martinez CE, Sossa-Briceño MP, **Castro-Rodriguez JA**. Comparison of the bronchodilating effects of albuterol delivered by valved vs. non-valved spacers in pediatric asthma. Pediatr Allergy Immunol. 2012; 23 (7): 629-35.
 41. Lukrafka JL, Fuchs SC, Fischer GB, Flores JA, Fachel JM, **Castro-Rodriguez JA**. Chest physiotherapy in paediatric patients hospitalised with community-acquired pneumonia: a randomised clinical trial. Arch Dis Child. 2012; 97; 967-71.
 42. Rodrigo GJ, Plaza V, **Castro-Rodríguez JA**. Comparison of three combined pharmacological approaches with tiotropium monotherapy in stable moderate to severe COPD: A systematic review. Pulm Pharmacol Ther. 2012;25:40-7.
 43. **Castro-Rodriguez JA**, Rodrigo GJ. A Systematic Review of Long-Acting β 2-Agonists Versus Higher Doses of Inhaled Corticosteroids in Asthma. Pediatrics. 2012;130:e650-7.
 44. Papadopoulos NG, Arakawa H, Carlsen KH, Custovic A, Gern J, Lemanske R, Le Souef P, Mäkelä M, Roberts G, Wong G, Zar H, Akdis CA, Bacharier LB, Baraldi E, van Bever HP, de Blic J, Boner A, Burks W, Casale TB, **Castro-Rodriguez JA**, Chen YZ, El-Gamal YM, Everard ML, Frischer T, Geller M, Gereda J, Goh DY, Guilbert TW, Hedlin G, Heymann PW, Hong SJ, Hossny EM, Huang JL, Jackson DJ, de Jongste JC, Kalayci O, Ait-Khaled N, Kling S, Kuna P, Lau S, Ledford DK, Lee SI, Liu AH, Lockey RF, Lødrup-Carlsen K, Lötvall J, Morikawa A, Nieto A, Paramesh H, Pawankar R, Pohunek P, Pongracic J, Price D, Robertson C, Rosario N, Rossenwasser LJ, Sly PD, Stein R, Stick S, Szeffler S, Taussig LM, Valovirta E, Vichyanond P, Wallace D, Weinberg E, Wennergren G, Wildhaber J, Zeiger RS. International consensus on (ICON) pediatric asthma. Allergy. 2012;67:976-97.
 45. Rodrigo GJ, **Castro-Rodriguez JA**. Safety of long-acting β -agonists in asthma. Thorax. 2012; 67:1015.
 46. Rodrigo GJ, **Castro-Rodríguez JA**. Safety of long-acting {beta} agonists for the treatment of asthma: clearing the air. Thorax. 2012; 67:342-9.
 47. Fuentes C, Contreras S, Padilla O, **Castro-Rodriguez JA**, Moya A, Caussade S. Exercise Challenge Test: Is a 15% Fall in FEV1 Sufficient for Diagnosis? J Asthma. 2011; 48; 729-35.

48. Rodriguez-Martinez CE, Sossa-Briceño MP, **Castro-Rodriguez JA**. Discriminative properties of two predictive indices for asthma diagnosis in a sample of preschoolers with recurrent wheezing. *Pediatr Pulmonol*. 2011;46: 1175-81.
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50. **Castro-Rodriguez JA**, Cifuentes L, Rodríguez-Martínez CE. The asthma predictive index remains a useful tool to predict asthma in young children with recurrent wheeze in clinical practice. *J Allergy Clin Immunol*. 2011;127:1082-3.
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54. **Castro-Rodriguez JA**. The Asthma Predictive Index: a very useful tool for predicting asthma in young children. *J Allergy Clin Immunol*. 2010;126:212-6.
55. Del-Rio-Navarro BE, **Castro-Rodriguez JA**, Garibay Nieto N, Berber A, Toussaint G, Sienna-Monge JJ, Romieu I. Higher metabolic syndrome in obese asthmatic compared to obese nonasthmatic adolescent males. *J Asthma*. 2010; 47:501-6.
56. **Castro-Rodriguez JA**, Navarrete-Contreras P, Holmgren L, Sanchez I, Caussade S. Bronchial Hyperreactivity to Methacholine in Atopic Versus Nonatopic Asthmatic Schoolchildren and Preschoolers. *J Asthma*. 2010; 47:929-34.
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59. Amirav I, Newhouse MT, Minocchieri S, **Castro-Rodriguez JA**, Schüepf KG. Factors that affect the efficacy of inhaled corticosteroids for infants and young children. *J Allergy Clin Immunol*. 2010;125:1206-11.
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- associated with reduced wheezing during the first year of life of the offspring. Pediatr Pulmonol. 2010;45:395-402.
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5. Libros y patentes: (últimos 10 años)

A. Chapters in Textbooks:

1. **Castro-Rodriguez JA**. Rodriguez- Martinez CE. Lactante sibilante. In Casado-Flores J. Serrano A. (editors). URGENCIAS Y TRATAMIENTO DEL NIÑO GRAVE. 3ra ed. Madrid, España. Ergon; 2015:362-364.
2. **Castro-Rodriguez JA**. Rodriguez- Martinez CE. Historia natural del asma y sus fenotipos en niños. In Garcia E. Carballo L.(editors). ASMA Enfoque integral y nuevas tendencias. 2da ed. Bogotá, Colombia. Panamericana Medica; 2014: 73-80.
3. **Castro-Rodríguez JA**. Martínez FD. Asma bronquial I: definicion, epidemiologia, y genética. In Paris E• Sánchez I• Beltramino • Copto (editors). MENEGUELLO PEDIATRIA.6ta ed. Buenos Aires, Argentina: Panamericana Medica ; 2013: 1106-1110.
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5. **Castro-Rodriguez JA**, Rodriguez-Martinez CE, Custovic A. Infantile and preschool asthma. In: Carlsen K-H and Gerritsen J (editors). PAEDIATRIC ASTHMA. Eur Respir Monogr. Norwich, UK, Copyright ERS 2012; 56:10-21
6. **Castro-Rodríguez JA**, Martinez FD. Lactante Sibilante. In: Herrera O, Quezada A. (editors). ENFERMEDADES RESPIRATORIAS EN PEDIATRIA. 1ra ed. Santiago, Chile: Mediterráneo; 2012: 469-466.
7. **Castro-Rodriguez JA**. Asma. In: Quezada A (editors). PEDIATRIA AMBULATORIA. 2da ed. Santiago, Chile, Editorial Mediterraneo; 2012:284-300.
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9. **Castro-Rodriguez JA**, Garcia-Marcos L. Epidemiologia del Asma y factores de riesgo. In: .Cobos N., Pérez-Yarza EG. (editors). TRATADO DE NEUMOLOGÍA INFANTIL. 2da ed. Madrid, España: Ediciones Ergon; 2009: 645-654.
10. **Castro-Rodriguez JA**. Asma e infección viral. In: Reyes M, Aristizabal G, Leal F (editors). NEUMOLOGIA PEDIATRICA. 5ª ed., Bogota, Colombia: Ediciones Interamericana; 2007:527-532.

11. **Castro-Rodriguez JA.** Tratamiento de la crisis de asma en el niño. In: Plaza V, Rodrigo GJ. (editors). ASMA AGUDA. 1ra. Ed. Barcelona, España: Ediciones Ergon; 2007:185-199.
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13. **Castro-Rodriguez JA.** Como evaluar el riesgo de asma en niños pequeños. In: Sanchez I, Pradro F. (editors). ENFOQUE CLINICO DE LOS PRINCIPALES PROBLEMAS EN ENFERMEDADES RESPIRATORIAS DEL NIÑO. 1ra. Ed. Santiago, Chile: Ediciones Universidad Católica de Chile; 2007:229-234