

## Biographical sketch

**PIERPAOLO MASTROIACOVO**

PROFESSOR OF PEDIATRICS  
DIRECTOR OF THE INTERNATIONAL CENTRE ON  
BIRTH DEFECTS

### EDUCATION / TRAINING

| INSTITUTION AND LOCATION                   | DEGREE                  | YEAR(s)   | FIELD OF STUDY |
|--|-------------------------|-----------|----------------|
| State University La Sapienza , Rome, Italy | MD                      | 1969      | Medicine       |
| State University La Sapienza , Rome, Italy | Research Assistant      | 1970-1971 | Pediatrics     |
| State University La Sapienza , Rome, Italy | Post-Doc (Equiv. Board) | 1973      | Pediatrics     |

### Positions

1970-1987 Research Assistant La Sapienza University Rome and Catholic University Sacro Cuore, Rome, Italy

1988-1998 Associate Professor, Birth Defects Branch, Catholic University Sacro Cuore, Rome, Italy

1993-1995 Medical Assistant, Catholic University of Louvaine, Bruxelles, Belgium

1998-2001 Director of the Birth Defects Branch, Catholic University Sacro Cuore, Rome, Italy

2001-2002 Head of the Department of Pediatrics, Catholic University Sacro Cuore, Rome, Italy

2003-present Director of the International Centre on Birth Defects (ICBD) (since 2006 Alessandra Lisi ICBD)

2003-present Director of the Centre of the International Clearinghouse for Birth Defects Monitoring System (since 2005 International

Clearinghouse for Birth Defects Surveillance and Research)

2004-present Chairman of the Ethical Committee, Children's Hospital Bambino Gesù

### Honors and Awards

MD *summa cum laude* (1969),

Specialization in Pediatrics (equivalent to Pediatrics Board) 70/70 (1997)

Director of the Quarterly Journal "Prospettive in Pediatria"

Chairman of the AISMo Scientific Committee, Moebius Syndrome Italian Association (2000-2009)

Chairman of Scientific Committee of the Italian Down Syndrome Association

Member of the Scientific Committee of the ASBI - Italian Association Parents of Children with Spina Bifida

Member of the Scientific Committee AISAc - Italian Association on the Study of Acondroplasia

### Journal's Editorial Board Membership

1980 - 1982 Novità in Pediatria

1984 - 1986 Prospettive in Pediatria

1988 - 1996 Pathologica

1990 - 2005 Acta Medica Auxologica, Co-Chief Editor

1994 - 1998 Clinical Dysmorphology

1996 - 2000 Prenatal and Neonatal Medicine

1997 - 2000 Prospettive in Pediatria

1999 - 2000 Quaderni ACP  
1997 - 2009 Prospettive in Pediatria, Co-Chief Editor  
1997 - present Paediatric and Perinatal Epidemiology  
2010 - present Prospettive in Pediatria, Chief Editor

## Member

Italian Society of Pediatrics

## Founder (2005) President (2005-2007) Past President (2008)

Italian Society of Pediatric Genetic Diseases and Disabilities

## Recent Publications 1999-2011 (of 308, 169 in PubMed):

1. Mastroiacovo P, Leoncini E. More folic acid, the five questions: why, who, when, how much and how. *BioFactors* (in press)
2. Brescianini S, Volzone A, Fagnani C, Patriarca V, Grimaldi V, Lanni R, Serino L, Mastroiacovo P, Stazi MA. Genetic and Environmental Factors Shape Infant Sleep Patterns: A Study of 18-Month-Old Twins. *Pediatrics*. 2011 Apr 11.
3. Floridia M, Ravizza M, Pinnetti C, Tibaldi C, Bucceri A, Anzidei G, Fiscon M, Molinari A, Martinelli P, Dalzero S, Tamburrini E; Italian Group on Surveillance on Antiretroviral Treatment in Pregnancy. Treatment change in pregnancy is a significant risk factor for detectable HIV-1 RNA in plasma at end of pregnancy. *HIV Clin Trials*. 2010 Nov-Dec;11(6):303-11.
4. Clementi M, Di Gianantonio E, Cassina M, Leoncini E, Botto LD, Mastroiacovo P; SAFE-Med Study Group. Treatment of hyperthyroidism in pregnancy and birth defects. *J Clin Endocrinol Metab*. 2010 Nov;95(11):E337-41.
5. Cocchi G, Gualdi S, Bower C, Halliday J, Jonsson B, Myrelid A, Mastroiacovo P, Amar E, Bakker MK, Correa A, Doray B, Melve KK, Koshnood B, Landau D, Mutchinick OM, Pierini A, Ritvanen A, Ruddock V, Scarano G, Sibbald B, Sipek A, Tenconi R, Tucker D, Annerén G. International trends of Down syndrome 1993-2004: Births in relation to maternal age and terminations of pregnancies. *Birth Defects Res A Clin Mol Teratol*. 2010 Jun;88(6):474-9.
6. Floridia M, Tamburrini E, Anzidei G, Tibaldi C, Muggiasca ML, Guaraldi G, Fiscon M, Vimercati A, Martinelli P, Donisi A, Dalzero S, Ravizza M; Italian Group on Surveillance on Antiretroviral Treatment in Pregnancy. Declining HCV seroprevalence in pregnant women with HIV. *Epidemiol Infect*. 2010 Sep;138(9):1317-21.
7. Lisi A, Botto LD, Robert-Gnansia E, Castilla EE, Bakker MK, Bianca S, Cocchi G, de Vigan C, da Graça Dutra M, Horacek J, Merlob P, Pierini A, Scarano G, Sipek A, Yamanaka M, **Mastroiacovo P**. Surveillance of Adverse Fetal Effects of Medications (SAFE-Med): findings from the International Clearinghouse of Birth Defects Surveillance and Research. *Reproductive Toxicology*, 2010 Jul;29(4):433-42
8. IPDTC Working Group. Prevalence at birth of cleft lip with or without cleft palate. Data from the International Perinatal Database of Typical Oral Clefts (IPDTC) Cleft Palate Craniofac J. 2011 Jan;48(1):66-81.
9. Leoncini E, Botto LD, Cocchi G, Annerén G, Bower C, Halliday J, Amar E, Bakker MK, Bianca S, Canessa Tapia MA, Castilla EE, Csáky-Szunyogh M, Dastgiri S, Feldkamp ML, Gatt M, Hirahara F, Landau D, Lowry RB, Marengo L, Mc Donnell R, Mathew TR, Morgan M, Mutchinick OM, Pierini A, Poetzsch S, Ritvanen A, Scarano G,

- Siffel C, Sípek A, Szabova E, Tagliabue G, Vollset SE, Wertelecki W, Zhuchenko L, **Mastroiacovo P**. How valid Are the Rates of Down Syndrome Internationally? Findings from the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Med Genet*. 2010 Jul;152A(7):1670-80
10. Floridia M, Tamburrini E, Anzidei G, Tibaldi C, Guaraldi G, Guerra B, Meloni AM, Vimercati A, Molinari A, Pinnetti C, Dalzero S, Ravizza M; Italian Group on Surveillance on Antiretroviral Treatment in Pregnancy, **Mastroiacovo P** part of the Working Group. Plasma lipid profile in pregnant women with HIV receiving nevirapine. *AIDS Patient Care STDS*. 2009 Mar;23(3):147-52
  11. Baroncelli S, Tamburrini E, Ravizza M, Dalzero S, Tibaldi C, Ferrazzi E, Anzidei G, Fiscon M, Alberico S, Martinelli P, Placido G, Guaraldi G, Pinnetti C, Floridia M; Italian Group on Surveillance on Antiretroviral Treatment in Pregnancy, **Mastroiacovo P** part of the Working Group. Antiretroviral treatment in pregnancy: a six-year perspective on recent trends in prescription patterns, viral load suppression, and pregnancy outcomes. *AIDS Patient Care STDS*. 2009 Jul;23(7):513-20.
  12. Floridia M, Ravizza M, Bucceri A, Lazier L, Viganò A, Alberico S, Guaraldi G, Anzidei G, Guerra B, Citernesi A, Sansone M, Baroncelli S, Tamburrini E; Italian Group on Surveillance on Antiretroviral Treatment in Pregnancy, **Mastroiacovo P** part of the Working Group. Factors influencing gestational age-adjusted birthweight in a national series of 600 newborns from mothers with HIV. *HIV Clin Trials*. 2008 Sep-Oct;9(5):287-97.
  13. Castilla EE, **Mastroiacovo P**, López-Camelo JS, Saldarriaga W, Isaza C, Orioli IM. Sirenomelia and cyclopia cluster in Cali, Colombia. *Am J Med Genet A*. 2008 Oct 15;146A(20):2626-36.
  14. Rittler M, López-Camelo JS, Castilla EE, Bermejo E, Cocchi G, Correa A, Csaky-Szunyogh M, Danderfer R, De Vigan C, De Walle H, da Graça Dutra M, Hirahara F, Martínez-Frías ML, Merlob P, Mutchinick O, Ritvanen A, Robert-Gnansia E, Scarano G, Siffel C, Stoll C, **Mastroiacovo P**. Preferential associations between oral clefts and other major congenital anomalies. *Cleft Palate Craniofac J*. 2008 Sep;45(5):525-32.
  15. Orioli IM, **Mastroiacovo P**, López-Camelo JS, Saldarriaga W, Isaza C, Aiello H, Zarante I, Castilla EE. Clusters of sirenomelia in South America. *Birth Defects Res A Clin Mol Teratol*. 2008 Aug 19.
  16. Castilla EE, **Mastroiacovo P**, Orioli IM. Gastroschisis: international epidemiology and public health perspectives. *Am J Med Genet C Semin Med Genet*. 2008 Aug 15;148C(3):162-79. [Dedicated covering page of the Journal](#)
  17. Leoncini E, Baranello G, Orioli IM, Annerén G, Bakker M, Bianchi F, Bower C, Canfield MA, Castilla EE, Cocchi G, Correa A, De Vigan C, Doray B, Feldkamp ML, Gatt M, Irgens LM, Lowry RB, Maraschini A, Mc Donnell R, Morgan M, Mutchinick O, Poetzsch S, Riley M, Ritvanen A, Gnansia ER, Scarano G, Sipek A, Tenconi R, **Mastroiacovo P**. Frequency of holoprosencephaly in the International Clearinghouse Birth Defects Surveillance Systems: Searching for population variations. *Birth Defects Res A Clin Mol Teratol*. 2008 Jun 19. [Dedicated covering page of the Journal](#)
  18. **Mastroiacovo P**. Risk factors for gastroschisis. [Editorial](#). *BMJ*. 2008 Jun 21;336(7658):1386-7.
  19. Scala I, Granese B, Lisi A, **Mastroiacovo P**, Andria G. Folate gene polymorphisms and the risk of Down syndrome pregnancies in young Italian women. *Am J Med Genet A*. 2007 May 1;143(9):1015-7
  20. **Mastroiacovo P**, Lisi A, Castilla EE, Martínez-Frías ML, Bermejo E, Marengo L, Kucik J, Siffel C, Halliday J, Gatt M, Annerén G, Bianchi F, Canessa MA, Danderfer R, de Walle H, Harris J, Li Z, Lowry RB, McDonnell R, Merlob P, Metneki J, Mutchinick O, Robert-Gnansia E, Scarano G, Sipek A, Pötzsch S, Szabova E, Yevtushok L. Gastroschisis and associated defects: an international study. *Am J Med Genet A*. 2007 Apr 1;143(7):660-71.

21. Botto LD, Lisi A, Bower C, Canfield MA, Dattani N, De Vigan C, De Walle H, Erickson DJ, Halliday J, Irgens LM, Lowry RB, McDonnell R, Metneki J, Poetzsch S, Ritvanen A, Robert-Gnansia E, Siffel C, Stoll C, **Mastroiacovo P**. Trends of selected malformations in relation to folic acid recommendations and fortification: an international assessment. *Birth Defects Res A Clin Mol Teratol*. 2006 Oct;76(10):693-705.
22. Scala I, Granese B, Sellitto M, Salomè S, Sammartino A, Pepe A, **Mastroiacovo P**, Sebastio G, Andria G. Analysis of seven maternal polymorphisms of genes involved in homocysteine/folate metabolism and risk of Down syndrome offspring. *Genet Med*. 2006 Jul;8(7):409-16.
23. **Mastroiacovo P**, Addis A. Folic acid: a public-health challenge. *Lancet*. 2006 Jun 24;367(9528):2057.
24. Botto LD, Robert-Gnansia E, Siffel C, Harris J, Borman B, **Mastroiacovo P**. Fostering international collaboration in birth defects research and prevention: a perspective from the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Public Health*. 2006 May;96(5):774-80.
25. De Santis M, Straface G, Cavaliere AF, Caruso A, Cichocki F, Venga L, **Mastroiacovo P**. First trimester maternal thyroid X-ray exposure and neonatal birth weight. *Reprod Toxicol*. 2005 May-Jun;20(1):3-4.
26. Mastroiacovo P, Lisi A, Castilla EE. The incidence of gastroschisis: research urgently needs resources. *BMJ*. 2006 Feb 18;332(7538):423-4.
27. Garbis H, Elefant E, Diav-Citrin O, **Mastroiacovo P**, Schaefer C, Vial T, Clementi M, Valti E, McElhatton P, Smorlesi C, Rodriguez EP, Robert-Gnansia E, Merlob P, Peiker G, Pexieder T, Schueler L, Ritvanen A, Mathieu-Nolf M. Pregnancy outcome after exposure to ranitidine and other H2-blockers. A collaborative study of the European Network of Teratology Information Services. *Reprod Toxicol*. 2005 Mar-Apr;19(4):453-8.
28. Botto LD, Lisi A, Robert-Gnansia E, Erickson JD, Vollset SE, **Mastroiacovo P**, Botting B, Cocchi G, de Vigan C, de Walle H, Feijoo M, Irgens LM, McDonnell B, Merlob P, Ritvanen A, Scarano G, Siffel C, Metneki J, Stoll C, Smithells R, Goujard J. International retrospective cohort study of neural tube defects in relation to folic acid recommendations: are the recommendations working? *BMJ*. 2005 Mar 12;330(7491):571.
29. Lisi A, Botto LD, Rittler M, Castilla E, Bianca S, Bianchi F, Botting B, De Walle H, Erickson JD, Gatt M, De Vigan C, Irgens L, Johnson W, Lancaster P, Merlob P, Mutchinick OM, Ritvanen A, Robert E, Scarano G, Stoll C, **Mastroiacovo P**. Sex and congenital malformations: an international perspective. *Am J Med Genet A*. 2005 Apr 1;134(1):49-57. Erratum in: *Am J Med Genet A*. 2005 May 1;134(4):463. Bianca, Sebastiano [added].
30. Kroes HY, Olney RS, Rosano A, Liu Y, Castilla EE, Cocchi G, De Vigan C, Martínez-Frías ML, **Mastroiacovo P**, Merlob P, Mutchinick O, Ritvanen A, Stoll C, van Essen AJ, Cobben JM, Cornel MC. Renal defects and limb deficiencies in 197 infants: is it possible to define the "acrorenal syndrome"? *Am J Med Genet A*. 2004 Aug 30;129(2):149-55.
31. Marino B, Diociaiuti L, Calcagni G, **Mastroiacovo P**. Outcome in Down syndrome fetuses with cardiac anomalies. *Am J Med Genet A*. 2004 Jul 1;128(1):101-2; author reply 103.
32. Källén K, Robert E, Castilla EE, **Mastroiacovo P**, Källén B. Relation between oculo-auriculo-vertebral (OAV) dysplasia and three other non-random associations of malformations (VATER, CHARGE, and OEIS). *Am J Med Genet A*. 2004 May 15;127(1):26-34.
33. Pradat P, Robert-Gnansia E, Di Tanna GL, Rosano A, Lisi A, **Mastroiacovo P**; Contributors to the MADRE database. First trimester exposure to corticosteroids and oral clefts. *Birth Defects Res A Clin Mol Teratol*. 2003 Dec;67(12):968-70.

34. Wilcken B, Bamforth F, Li Z, Zhu H, Ritvanen A, Renlund M, Stoll C, Alembik Y, Dott B, Czeizel AE, Gelman-Kohan Z, Scarano G, Bianca S, Ettore G, Tenconi R, Bellato S, Scala I, Mutchinick OM, López MA, de Walle H, Hofstra R, Joutchenko L, Kavteladze L, Bermejo E, Martínez-Frías ML, Gallagher M, Erickson JD, Vollset SE, **Mastroiacovo P**, Andria G, Botto LD. Geographical and ethnic variation of the 677C>T allele of 5,10 methylenetetrahydrofolate reductase (MTHFR): findings from over 7000 newborns from 16 areas world wide. *J Med Genet.* 2003 Aug;40(8):619-25. No abstract available. Erratum in: *J Med Genet.* 2004 May;41(5):400. Redlund, M [corrected to Renlund, M].
35. Sanderson P, McNulty H, **Mastroiacovo P**, McDowell IF, Melse-Boonstra A, Finglas PM, Gregory JF 3rd; UK Food Standards Agency. Folate bioavailability: UK Food Standards Agency workshop report. *Br J Nutr.* 2003 Aug;90(2):473-9. Review.
36. Di Tanna GL, Rosano A, **Mastroiacovo P**. Prevalence of gastroschisis at birth: retrospective study. *BMJ.* 2002 Dec 14;325(7377):1389-90.
37. de Franchis R, Botto LD, Sebastio G, Ricci R, Iolascon A, Capra V, Andria G, **Mastroiacovo P**. Spina bifida and folate-related genes: a study of gene-gene interactions. *Genet Med.* 2002 May-Jun;4(3):126-30.
38. Mosca L, Marcellini S, Perluigi M, **Mastroiacovo P**, Moretti S, Famularo G, Peluso I, Santini G, De Simone C. Modulation of apoptosis and improved redox metabolism with the use of a new antioxidant formula. *Biochem Pharmacol.* 2002 Apr 1;63(7):1305-14.
39. Olivieri A, Stazi MA, **Mastroiacovo P**, Fazzini C, Medda E, Spagnolo A, De Angelis S, Grandolfo ME, Taruscio D, Cordeddu V, Sorcini M; Study Group for Congenital Hypothyroidism. A population-based study on the frequency of additional congenital malformations in infants with congenital hypothyroidism: data from the Italian Registry for Congenital Hypothyroidism (1991-1998). *J Clin Endocrinol Metab.* 2002 Feb;87(2):557-62.
40. Camera G, Baldi M, Strisciuglio G, Concolino D, **Mastroiacovo P**, Baffico M. Occurrence of thanatophoric dysplasia type I (R248C) and hypochondroplasia (N540K) mutations in two patients with achondroplasia phenotype. *Am J Med Genet.* 2001 Dec 15;104(4):277-81. Erratum in: *Am J Med Genet* 2002 Jun 15;110(2):193.
41. Di Gianantonio E, Schaefer C, **Mastroiacovo PP**, Cournot MP, Benedicenti F, Reuvers M, Occupati B, Robert E, Bellemin B, Addis A, Arnon J, Clementi M. Adverse effects of prenatal methimazole exposure. *Teratology.* 2001 Nov;64(5):262-6.
42. Einarson A, Fatoye B, Sarkar M, Lavigne SV, Brochu J, Chambers C, **Mastroiacovo P**, Addis A, Matsui D, Schuler L, Einarson TR, Koren G. Pregnancy outcome following gestational exposure to venlafaxine: a multicenter prospective controlled study. *Am J Psychiatry.* 2001 Oct;158(10):1728-30.
43. Källén K, Mastroiacovo P, Castilla EE, Robert E, Källén B. VATER non-random association of congenital malformations: study based on data from four malformation registers. *Am J Med Genet.* 2001 Jun 1;101(1):26-32. Review.
44. Stoll C, Rosano A, Botto LD, Erickson D, Khoury MJ, Olney RS, Castilla EE, Cocchi G, Cornel MC, Goujard J, Bermejo E, Merlob P, Mutchinick O, Ritvanen A, Zampino G, **Mastroiacovo P**. On the symmetry of limb deficiencies among children with multiple congenital anomalies. *Ann Genet.* 2001 Jan-Mar;44(1):19-24.
45. Addis A, Magrini N, **Mastroiacovo P**. Drug use during pregnancy. *Lancet.* 2001 Mar 10;357(9258):800.
46. Arpino C, Brescianini S, Robert E, Castilla EE, Cocchi G, Cornel MC, de Vigan C, Lancaster PA, Merlob P, Sumiyoshi Y, Zampino G, Renzi C, Rosano A, **Mastroiacovo P**. Teratogenic effects of antiepileptic

- drugs: use of an International Database on Malformations and Drug Exposure (MADRE). *Epilepsia*. 2000 Nov;41(11):1436-43.
47. Zollino M, Di Stefano C, Zampino G, **Mastroiacovo P**, Wright TJ, Sorge G, Selicorni A, Tenconi R, Zappalà A, Battaglia A, Di Rocco M, Palka G, Pallotta R, Altherr MR, Neri G. Genotype-phenotype correlations and clinical diagnostic criteria in Wolf-Hirschhorn syndrome. *Am J Med Genet*. 2000 Sep 18;94(3):254-61.
  48. Rosano A, Botto LD, Botting B, **Mastroiacovo P**. Infant mortality and congenital anomalies from 1950 to 1994: an international perspective. *J Epidemiol Community Health*. 2000 Sep; 54(9):660-6.
  49. Rosano A, Botto LD, Olney RS, Khoury MJ, Ritvanen A, Goujard J, Stoll C, Cocchi G, Merlob P, Mutchinick O, Cornel MC, Castilla EE, Martínez-Frías ML, Zampino G, Erickson JD, **Mastroiacovo P**. Limb defects associated with major congenital anomalies: clinical and epidemiological study from the International Clearinghouse for Birth Defects Monitoring Systems. *Am J Med Genet*. 2000 Jul 17;93(2):110-6.
  50. Källén K, Castilla EE, Robert E, **Mastroiacovo P**, Källén B. OEIS complex--a population study. *Am J Med Genet*. 2000 May 1;92(1):62-8.
  51. Ornoy A, **Mastroiacovo P**. More on data from teratogen information systems (TIS) *Teratology*. 2000 May;61(5):327-8.
  52. Einarson A, **Mastroiacovo P**, Arnon J, Ornoy A, Addis A, Malm H, Koren G. Prospective, controlled, multicentre study of loperamide in pregnancy. *Can J Gastroenterol*. 2000 Mar;14(3):185-7.
  53. Zampino G, Balducci F, Mariotti P, Dickmann A, **Mastroiacovo P**. Growth and developmental retardation, ocular ptosis, cardiac defect, and anal atresia: confirmation of the ROCA-Wiedemann syndrome. *Am J Med Genet*. 2000 Feb 28;90(5): 358-60.
  54. Källén K, Robert E, **Mastroiacovo P**, Castilla EE, Källén B. CHARGE Association in newborns: a registry-based study. *Teratology*. 1999 Dec;60(6): 334-43.
  55. Källén KB, Castilla EE, da Graça Dutra M, **Mastroiacovo P**, Robert E, Källén BA. A modified method for the epidemiological analysis of registry data on infants with multiple malformations. *Int J Epidemiol*. 1999 Aug; 28(4): 701-10.
  56. **Mastroiacovo P**, Castilla EE, Arpino C, Botting B, Cocchi G, Goujard J, Marinacci C, Merlob P, Métneki J, Mutchinick O, Ritvanen A, Rosano A. Congenital malformations in twins: an international study. *Am J Med Genet*. 1999 Mar 12; 83(2): 117-24.
  57. **Mastroiacovo P**, Robert E, Källén B. Is there an association of Down Syndrome and omphalocele? *Am J Med Genet*. 1999 Feb 19;82(5):443.
  58. **Mastroiacovo P**, Mazzone T, Addis A, Elephant E, Carlier P, Vial T, Garbis H, Robert E, Bonati M, Ornoy A, Finardi A, Schaffer C, Caramelli L, Rodríguez-Pinilla E, Clementi M. High vitamin A intake in early pregnancy and major malformations: a multicenter prospective controlled study. *Teratology*. 1999 Jan;59(1):7-11.

## Recent Books/Book Chapters (of 16):

1. **Mastroiacovo P**. Il bambino con patologia cronica ad alta complessità assistenziale. In Burgio RG e Bertelloni S. *Tecniche Nuove Editore*, 2007 pagg 233-248

2. Mossey P, Boulyjenkov V, **Mastroiacovo P**, Munger R, Murray J, Shaw W. Addressing the global challenger of craniofacial anomalies. WHO, 2006 Pagg 1- 131
3. **Mastroiacovo P**. La patologia malformativa. In Panizon F (ed): Principi e Pratica di Pediatria. Monduzzi Editore. Quarta Edizione. 2005 pagg 183-272
4. **Mastroiacovo P** (ed): Farmaci e gravidanza. La valutazione del rischio teratogeno basato su prove di efficacia. AIFA Ministero della Salute, 2005 pagg 1- 724 [www.farmaciegravidanza.org](http://www.farmaciegravidanza.org)
5. Botto LD, **Mastroiacovo P**. Surveillance for birth defects and genetic diseases. In: Khoury MJ, Burke W, Thomson E, (Editors). Genetics and Public Health in the 21st Century. Oxford University Press 2004
6. Buzzetti R, **Mastroiacovo P**. Le prove di efficacia in pediatria. UTET, 2000 pagg 1-108

## Current Research

1. **Surveillance and prevention of birth defects** CDC grant # U50/CCU207141-14  
The goal of this grant is to exchange data on birth defects among Clearinghouse members and coordinate research activities
2. **International Database on Craniofacial Anomalies:** previous WHO and current Iowa University grant # P50DE16215-04  
The goal of this grant is to collect and analyze data of cleft lip and palate and to maintain a database <http://www.who.int/genomics/anomalies/en/>
3. **Randomized controlled trial on efficacy of folic acid with or without other vitamins at standard or high dosage to prevent birth defects.** AIFA Ministero della Salute, Independent Research Grant  
The goal of this grant is to evaluate in a RCT of factorial design the efficacy of folic acid to prevent birth defects
4. **Promoting pre-conception counseling and folic acid** CCM, Ministero della Salute, Grant  
The goal of this grant is to promote the pre-conception counselling and folic acid supplementation by education, information and systematic reviews
5. **Post-marketing Surveillance of Teratogenic effect of medications** AIFA Ministero della Salute, Independent Research Grant  
The goal of this grant is to detect signals of association between birth defects and exposures to maternal medication in the first trimester using data of 5 italian registries of birth defects.