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Forskning

My scientific area of interest is neonatology, with a special focus on brain development and impairment following preterm birth.

My past and current research activity can be summarized in four parts:

I started to do research in neonatology in 1999 (I became MD in 2000) in Genoa (Italy). In the first years I focused on the use of brain damage markers in the perinatal period for a better diagnosis and prognosis. Together with a qualified research team, we succeeded to validate the assessment of a protein (S100B protein) in multiple matrices, including measurements before birth (amniotic fluid and maternal blood), at birth (cord blood and newborn's blood), in the first days of life (blood, urine, saliva, and, in the mother's colostrum and milk). We succeeded in our aim to provide reference values in both physiological and pathological conditions in the newborn, including prematurity, intra-uterine growth restriction, asphyxia and intracranial bleeding. I actively took part of multiple parts of these investigations, being the person quantifying biomarkers levels in the lab with different techniques, participating to study designing, contributing in manuscript writing. In a couple of studies, we reported S100B concentrations in pre-adolescents and in adults conducting sport activity.

In 2003 I moved to Netherlands (University of Maastricht) to do my PhD on brain development and S100B protein in an animal model. This allowed me to improve my knowledge and skills on basic science (including immunohistochemistry and behavioral testing), and to correlate pre-clinical with clinical data. The research question was what are the effects of prenatal steroids on brain development, including short- and long- term assessment, from birth to adulthood in the offspring of the rat. In addition, we reported that a lower dose of betamethasone was associated with milder side-effects. I've been the Principal Investigator in this group of studies, thus performing animal experiments and taking care of data analysis and reporting.

Between 2009 and 2014 I moved back to Genoa, where I got a permanent position as senior consultant in neonatology. Here I dedicated myself to learn about how to conduct clinical trials, systematic reviews & meta-analysis, guidelines (according to GRADE). This 5-year period has been pretty intense and has led, beginning from 2014, to a rewarding

scientific output, mainly in Cochrane reviews in neonatal medicine. My collaboration with Cochrane is not limited to “standard” systematic reviews, but it includes three ongoing Overviews of Cochrane reviews. This constitutes a new field in neonatology, as only one of this Overview has been published so far in neonatology. Moreover, I published a couple of studies on the clinical use of micro-methods in the newborn.

Since February 2015 I live and work in Lund. I currently work 50% as “överläkare” in the neonatal intensive care unit of Lund/Malmö, and 50% as a researcher. In the period 2017-19, my 50% research time will be covered by “ALFyngre-medel”. The only reason that led me to leave Italy and move to Sweden has been the attractive opportunity to join Professor David Ley, with the great possibility to take part to both animal and clinical studies in a motivated and well-equipped research environment. In agreement and with the support of Professor David Ley, I could become involved in the experiments in the preterm rabbit which have been successfully conducted for several years. In addition, I have been allowed to develop new research lines, e.g. the use of (high-resolution) brain magnetic resonance imaging and innovative behavioral tests in the rabbit (manuscript in preparation). During 2016 I could run multiple research sessions in the preterm rabbit, and we succeeded to achieve caffeine blood concentrations comparable to the human newborn (manuscript in preparation, in collaboration with the University of Uppsala). Finally, I promoted the establishment of a collaboration between the Universities of Lund and of Genoa in order to collect human blood sample to validate micro-methods in neonatology. Samples recruitment has started one year ago in both centers (unpublished data).

!!Employments

Docent

Pediatrik, Lund
Lunds universitet
Lund, Sverige
2015 sep. 21 → present

Forskningsprojektdeltagare

Neonatologi
Lunds universitet
Lund, Sverige
2016 aug. 11 → present

!!Research output

Value of preclinical systematic reviews and meta-analyses in pediatric research

Romantsik, O., Bank, M., Menon, J. M. L., Malhotra, A. & Bruschetti, M., 2024 apr. 13, (E-pub ahead of print) I: Pediatric Research. s. 1-11

Workplace interventions to reduce the risk of SARS-CoV-2 infection outside of healthcare settings

Constantin, A. M., Noertjojo, K., Sommer, I., Pizarro, A. B., Persad, E., Durao, S., Nussbaumer-Streit, B., McElvenny, D. M., Rhodes, S., Martin, C., Sampson, O., Jørgensen, K. J. & Bruschetti, M., 2024 apr. 10, I: Cochrane Database of Systematic Reviews. 2024, 4, CD015112.

Inhaled bronchodilators for the prevention and treatment of chronic lung disease in preterm infants

Ng, G., Bruschetti, M., Ibrahim, J. & da Silva, O., 2024 apr. 9, I: Cochrane Database of Systematic Reviews. 2024, 4, CD003214.

Teaching evidence-based medicine by using a systematic review framework: implementation in a Swedish university setting

Björklund, M., Ringsten, M., Bruschetti, M. & Garwicz, M., 2024, (E-pub ahead of print) I: BMJ Evidence-Based Medicine. 23112607.

Methylxanthine for preventing morbidity and mortality in preterm infants: a network meta-analysis

Kinoshita, M., Del Giovane, C., Mitra, S., Hall, R., Soll, R. & Bruschettini, M., 2023 dec. 18, I: Cochrane Database of Systematic Reviews. 2023, 12, CD015058.

Association between human chorionic gonadotropin (hCG) levels and adverse pregnancy outcomes: A systematic review and meta-analysis

Skogler, J., Moberg, T., Tancredi, L., Styrnisdóttir, L., Hedayati, E., Alarcon-Ruiz, C. A., Khamis, A., Persad, E., Iskandarani, G., Hansson, S. R. & Bruschettini, M., 2023 dec., I: Pregnancy Hypertension. 34, s. 124-137 14 s.

Diclofenac for acute postoperative pain in children

Ringsten, M., Kredo, T., Ebrahim, S., Hohlfeld, A. & Bruschettini, M., 2023 dec., I: Cochrane Database of Systematic Reviews. 2023, 12, CD015087.

Decongestants and antihistamines for acute otitis media in children

Brattström, P., Moresco, L., Nussbaumer-Streit, B., Bruschettini, M. & Gisselsson-Solen, M., 2023 nov. 28, I: Cochrane Database of Systematic Reviews. 2023, 11, CD015839.

Stem cell-based interventions for the treatment of stroke in newborn infants

Bruschettini, M., Badura, A. & Romantsik, O., 2023 nov. 23, I: The Cochrane database of systematic reviews. 11, CD015582.

AMSTAR 2 is only partially applicable to systematic reviews of non-intervention studies: a meta-research study

Puljak, L., Bala, M. M., Mathes, T., Poklepovic Pericic, T., Wegewitz, U., Faggion, C. M., Matthias, K., Storman, D., Zajac, J., Rombey, T., Bruschettini, M. & Pieper, D., 2023 nov., I: Journal of Clinical Epidemiology. 163, s. 11-20 10 s.

Methylxanthine for the prevention and treatment of apnea in preterm infants

Marques, K. A., Bruschettini, M., Roehr, C. C., Davis, P. G., Fiander, M. & Soll, R., 2023 okt. 31, I: The Cochrane database of systematic reviews. 10, 10, CD013830.

Surfactant therapy guided by tests for lung maturity in preterm infants at risk of respiratory distress syndrome

Sibrecht, G., Kearl, C. R., Borys, F., Morariu, M., Bruschettini, M. & Soll, R., 2023 okt. 26, I: Cochrane Database of Systematic Reviews. 2023, 10, CD013158.

Superoxide dismutase for bronchopulmonary dysplasia in preterm infants

Albertella, M., Gentyala, R. R., Paraskevas, T., Ehret, D., Bruschettini, M. & Soll, R., 2023 okt. 9, I: Cochrane Database of Systematic Reviews. 2023, 10, CD013232.

Acupuncture for procedural pain in newborn infants

Cabano, R., Soll, G., Al-Abdallat, H., Hamamreh, R., Oei, J. L., Schmölder, G. M. & Bruschettini, M., 2023 okt., I: Cochrane Database of Systematic Reviews. 2023, 10, CD015894.

Doxapram for the prevention and treatment of apnea in preterm infants

Evans, S., Avdic, E., Pessano, S., Fiander, M., Soll, R. & Bruschettini, M., 2023 okt., I: Cochrane Database of Systematic Reviews. 2023, 10, CD014145.

Improving rates of successful extubation: Medications

Bruschettini, M., 2023 okt., I: Seminars in Fetal and Neonatal Medicine. 28, 5, 101490.

Positioning for lumbar puncture in newborn infants

Pessano, S., Bruschettini, M., Prescott, M. G. & Romantsik, O., 2023 okt., I: The Cochrane database of systematic reviews. 10, s. CD015592

Pharmacological interventions for the management of pain and discomfort during lumbar puncture in newborn infants
Pessano, S., Romantsik, O., Olsson, E., Hedayati, E. & Bruschetti, M., 2023 sep., I: Cochrane Database of Systematic Reviews. 2023, 9, CD015594.

Early versus late discontinuation of caffeine administration in preterm infants
Urru, S. A. M. & Bruschetti, M., 2023 aug. 31, I: Cochrane Database of Systematic Reviews. 2023, 8, CD015802.

Acupuncture for neonatal abstinence syndrome in newborn infants
Urlesberger, B., Cabano, R., Soll, G., Pahl, A., Oei, J. L., Schmölzer, G. M., Raith, W. & Bruschetti, M., 2023 aug. 22, I: Cochrane Database of Systematic Reviews. 2023, 8, CD014160.

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Kinoshita, M., Olsson, E., Borys, F. & Bruschetti, M., 2023 apr. 5, I: Cochrane Database of Systematic Reviews. 2023, 4, CD015056.

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Persad, E., Pizarro, A. B. & Bruschetti, M., 2023 apr. 4, I: Cochrane Database of Systematic Reviews. 2023, 4, CD015179.

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Stem cell-based interventions for the treatment of stroke in newborn infants
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Pessano, S., Bruschetti, M. & Romantsik, O., 2023 jan. 18, I: Cochrane Database of Systematic Reviews. 2023, 1, CD015592.

Systemic opioid regimens for postoperative pain in neonates
Kinoshita, M., Borges do Nascimento, I. J., Styrismisdóttir, L. & Bruschetti, M., 2023 jan. 16, I: Cochrane Database of Systematic Reviews. 2023, 1, CD015016.

Interventions for the Management of Pain and Sedation in Newborns Undergoing Therapeutic Hypothermia for Hypoxic-Ischemic Encephalopathy: A Systematic Review
Bäcke, P., Bruschetti, M., Blomqvist, Y. T., Sibrecht, G. & Olsson, E., 2023 jan., I: Pediatric Drugs. 25, 1, s. 27-41 15 s.

Caffeine versus other methylxanthines for the prevention and treatment of apnea in preterm infants
Moresco, L., Marques, K. A., Ardiles-Ruesjas, S., Soll, R. & Bruschetti, M., 2023, I: Cochrane Database of Systematic Reviews. 2023, 3, CD015462.

Cooling strategies during neonatal transport for hypoxic-ischaemic encephalopathy
Sibrecht, G., Borys, F., Campone, C., Bellini, C., Davis, P. & Bruschetti, M., 2023, I: Acta Paediatrica, International Journal of Paediatrics. 112, 4, s. 587-602

Många källor till problem i systematiska översikter
Bruschetti, M., Axelsson, I. & Karsten Juhl Jørgensen, K., 2023, I: Lakartidningen. 120

Placenta-associated adverse pregnancy outcomes in women experiencing mild or severe hyperemesis gravidarum – a systematic review and meta-analysis

Moberg, T., Van der Veecken, L., Persad, E., Hansson, S. R. & Bruschetti, M., 2023, I: BMC Pregnancy and Childbirth. 23, 1, 375.

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Ibuprofen for acute postoperative pain in children

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Ringsten, M., Kredo, T., Hohlfeld, A. & Bruschetti, M., 2022 apr. 8, I: Cochrane Database of Systematic Reviews. 2022, 4, CD015087.

Clinical rating scales for assessing pain in newborn infants

Bruschetti, M., Olsson, E., Persad, E., Garratt, A. & Soll, R., 2022 mars 18, I: Cochrane Database of Systematic Reviews. 2022, 3, MR000064.

Interventions for the management of transient tachypnoea of the newborn - an overview of systematic reviews

Bruschetti, M., Hassan, K. O., Romantsik, O., Banzi, R., Calevo, M. G. & Moresco, L., 2022 feb. 24, I: Cochrane Database of Systematic Reviews. 2022, 2, CD013563.

Cuffed versus uncuffed endotracheal tubes for neonates

Dariya, V., Moresco, L., Bruschetti, M. & Brion, L. P., 2022 jan., I: Cochrane Database of Systematic Reviews. 2022, 1, CD013736.

Neurodevelopmental outcomes in children with isolated congenital diaphragmatic hernia: A systematic review and meta-analysis

Van der Veecken, L., Vergote, S., Kunpalin, Y., Kristensen, K., Deprest, J. & Bruschetti, M., 2022, I: Prenatal Diagnosis. 42, 3, s. 318-329

Pharmacological interventions for pain and sedation management in newborn infants undergoing therapeutic hypothermia

Bäcke, P., Bruschetti, M., Sibrecht, G., Thernström Blomqvist, Y. & Olsson, E., 2022, I: Cochrane Database of Systematic Reviews. 2022, 11, CD015023.

Severe intraventricular hemorrhage causes long-lasting structural damage in a preterm rabbit pup model

Romantsik, O., Ross-Munro, E., Grönlund, S., Holmqvist, B., Brinte, A., Gerdtsen, E., Vallius, S., Bruschetti, M., Wang, X., Fleiss, B. & Ley, D., 2022, I: *Pediatric Research*. 92, 2, s. 403-414

The effects of caffeine following hypoxic-ischemic encephalopathy: A systematic review of animal studies

Bruschetti, M., Moreira, A., Pizarro, A. B., Mustafa, S. & Romantsik, O., 2022, I: *Brain Research*. 1790, 147990.

Continuous glucose monitoring for the prevention of morbidity and mortality in preterm infants

Galderisi, A., Trevisanuto, D., Russo, C., Hall, R. & Bruschetti, M., 2021 dec. 21, I: *Cochrane Database of Systematic Reviews*. 2021, 12, CD013309.

Systemic opioid regimens for postoperative pain in neonates

Kinoshita, M., Borges do Nascimento, I. J., Bruschetti, M. & Styrismisdóttir, L., 2021 maj 1, I: *Cochrane Database of Systematic Reviews*. 2021, 5, CD015016.

Systemic opioids versus other analgesics and sedatives for postoperative pain in neonates

Kinoshita, M., Stempel, K. S., Borges do Nascimento, I. J. & Bruschetti, M., 2021 maj 1, I: *Cochrane Database of Systematic Reviews*. 2021, 5, CD014876.

Salbutamol for transient tachypnea of the newborn

Moresco, L., Bruschetti, M., Macchi, M. & Calevo, M. G., 2021 feb. 5, I: *The Cochrane database of systematic reviews*. 2, s. CD011878

The use and reporting of neonatal pain scales: a systematic review of randomized trials

Olsson, E., Ahl, H., Bengtsson, K., Vejayaram, D. N., Norman, E., Bruschetti, M. & Eriksson, M., 2021 feb. 1, I: *Pain*. 162, 2, s. 353-360 8 s.

Addressing harms of screening – A review of outcomes in Cochrane reviews and suggestions for next steps

Johansson, M., Borys, F., Peterson, H., Bilamour, G., Bruschetti, M. & Jørgensen, K. J., 2021, I: *Journal of Clinical Epidemiology*. 129, s. 68-73 6 s.

Antileukotrienes for the prevention and treatment of chronic lung disease in very preterm newborns: a systematic review

Jukema, M., Borys, F., Sibrecht, G., Jørgensen, K. J. & Bruschetti, M., 2021, I: *Respiratory Research*. 22, 1, 208.

Caffeine dosing regimens in preterm infants with or at risk for apnea of prematurity

Bruschetti, M., Brattström, P., Russo, C., Onland, W., Davis, P. G. & Soll, R., 2021, I: *Cochrane Database of Systematic Reviews*. 2021, 2, CD013873.

Fluid restriction in the management of transient tachypnea of the newborn

Gupta, N., Bruschetti, M. & Chawla, D., 2021, I: *Cochrane Database of Systematic Reviews*. 2021, 2, CD011466.

Interventions to minimize blood loss in very preterm infants - A systematic review and meta-analysis

Persad, E., Sibrecht, G., Ringsten, M., Karlelid, S., Romantsik, O., Ulinder, T., Do Nascimento, I. J. B., Bjorklund, M., Arno, A. & Bruschetti, M., 2021, I: *PLoS ONE*. 16, 2 February, e0246353.

Methylxanthine for the prevention and treatment of apnea in preterm infants [Protocol]

Marques, K., Roehr, C. C., Bruschetti, M., Davis, P. G. & Soll, R., 2021, I: *Cochrane Database of Systematic Reviews*. 2020, 12, CD013830.

Opioids for newborn infants receiving mechanical ventilation

Bellù, R., Romantsik, O., Nava, C., de Waal, K. A., Zanini, R. & Bruschetti, M., 2021, I: *Cochrane Database of Systematic Reviews*. 2021, 3, CD013732.

Pharmacological interventions for pain and sedation management in newborn infants undergoing therapeutic hypothermia
Bäcke, P., Bruschetti, M., Sibrecht, G., Thernström Blomqvist, Y. & Olsson, E., 2021, I: Cochrane Database of Systematic Reviews. 2021, 7, CD015023.

Workplace interventions to reduce the risk of SARS-CoV-2 infection outside of healthcare settings

Pizarro, A. B., Persad, E., Durao, S., Nussbaumer-Streit, B., Garrity, C., Engela-Volker, J. S., McElvenny, D., Rhodes, S., Stocking, K., Fletcher, T., Van Tongeren, M., Martin, C., Noertjojo, K., Sampson, O., Jørgensen, K. J. & Bruschetti, M., 2021, I: Cochrane Database of Systematic Reviews. 2021, 9, CD015112.

Continuous glucose monitoring for the prevention of morbidity and mortality in preterm infants

Galderisi, A., Bruschetti, M., Russo, C., Hall, R. & Trevisanuto, D., 2020 dec. 21, I: The Cochrane database of systematic reviews. 12, CD013309.

Pharmacological treatment for continuous spike-wave during slow wave sleep syndrome and Landau-Kleffner Syndrome

Moresco, L., Bruschetti, M., Calevo, M. G. & Siri, L., 2020 nov. 6, I: The Cochrane database of systematic reviews. 11, CD013132.

Confounding biases in studies on early- versus late-caffeine in preterm infants: a systematic review

Nylander Vujovic, S., Nava, C., Johansson, M. & Bruschetti, M., 2020 sep., I: Pediatric Research. 88, 3, s. 357-364 8 s.

Tumor necrosis factor (TNF) inhibitors for the treatment of psoriatic arthritis

Cagnotto, G., Compagno, M., Scire, C. A. & Bruschetti, M., 2020 maj 18, I: Cochrane Database of Systematic Reviews. 2020, 5, CD013614.

Long-term neurological effects of neonatal caffeine treatment in a rabbit model of preterm birth

Van der Veeke, L., Grönlund, S., Gerdts, E., Holmqvist, B., Deprest, J., Ley, D. & Bruschetti, M., 2020 maj, I: Pediatric Research. 87, 6, s. 1011-1018 8 s.

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Romantsik, O., Calevo, M. G., Norman, E. & Bruschetti, M., 2020 apr. 9, I: The Cochrane database of systematic reviews. 4, CD013104.

Interventions for the management of transient tachypnoea of the newborn - an overview of systematic reviews

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Is earlier better when it comes giving caffeine to preterm infants or are we risking unnecessary treatment and serious harm?

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A LC-MS/MS method for the quantification of caffeine, betamethasone, clonidine and furosemide in cerebrospinal fluid of preterm infants

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Cuffed versus uncuffed endotracheal tubes for neonates

Dariya, V., Moresco, L., Bruschetti, M. & Brion, L. P., 2020, I: *Cochrane Database of Systematic Reviews*. 2020, 9, CD013736.

Head midline position for preventing the occurrence or extension of germinal matrix-intraventricular haemorrhage in preterm infants

Romantsik, O., Calevo, M. G. & Bruschetti, M., 2020, I: *Cochrane Database of Systematic Reviews*. 2020, 7, CD012362.

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Opioids for newborn infants receiving mechanical ventilation

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Postnatal corticosteroids for transient tachypnoea of the newborn

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Stem cell-based interventions for the prevention of morbidity and mortality following hypoxic-ischaemic encephalopathy in newborn infants

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Johansson, M., Bero, L., Bonfill, X., Bruschetti, M., Garner, S., Glenton, C., Harris, R., Jørgensen, K. J., Levinson, W., Lotfi, T., Montori, V., Meng, D. M., Schünemann, H., Vaz Carneiro, A., Woloshin, S. & Moynihan, R., 2019 dec. 6, I: *The Cochrane database of systematic reviews*. 12, ED000143.

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2016	Lorem ipsum dolor sit amet
2015	Lorem ipsum dolor sit amet
2014	Lorem ipsum dolor sit amet
2013	Lorem ipsum dolor sit amet
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