



CURRICULUM VITAE
Dr. med. univ. Dr. med. scient
Katharina GOERAL

Curriculum Vitae (1/6)

DDr. Katharina GOERAL

EDUCATION

- 11/2013 – 03/2022 **PhD – Medical University of Vienna**
Graduation: March 2022
Thematic Program: Clinical Neurosciences (CLINS)
- 10/2006 – 10/2013 **Human Medicine – Medical University of Vienna (GPA: 1.41)**
Graduation: October 2013
Optional subjects – Completed with GPA: 1.0:
neonatal intensive care with bedside teaching, neonatal neurology, pathomechanism in perinatal asphyxia, pre- and perinatal cardiology, extremely low birth weight infant, case rounds on the NICU, intensive medicine
- 09/1998 – 06/2006 **Comprehensive Secondary School**
Hollabrunn, Austria
(school leaving exam: 06/2006; A-levels with distinction)

SCIENTIFIC EMPLOYMENT

- 06/2011 – 07/2012 **Pediatric Neuroscience and Stem Cell Research Trainee**
Kennedy Krieger Institute, Johns Hopkins Medical Institutions
Baltimore, MD (USA)
- 05/2010 – 05/2011 **Scientific Employment**
Department of Pediatrics and Adolescence Medicine
Division of Neonatology, Intensive Care and Pediatric Neurology
University Hospital Vienna (Austria)

CLINICAL APPOINTMENT

- Since 12/2019 **Attending Physician**
Department of Pediatrics and Adolescent Medicine
Division of Neonatology, Intensive Care and Pediatric Neurology
- 10/2013 – 11/2019 **Residency**
Department of Pediatrics and Adolescent Medicine
Division of Neonatology, Intensive Care and Pediatric Neurology



Contact

katharina.goeral@meduniwien.ac.at

Address

Jörgerbadgasse 6/2/12
1170 Vienna, AUSTRIA

Personal Information

Born on December 27, 1987
Nationality: AUSTRIA

ORCID ID

[0000-0002-5209-6169](https://orcid.org/0000-0002-5209-6169)

ORAL PRESENTATIONS 1

48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; Mai 18-21, 2022; Aachen (Germany)

- A novel MRI-based scoring system to predict outcome in neonates born preterm with intraventricular haemorrhage
- MRI Marker

47. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; June 16-19, 2021; Vienna (Austria)

- aEEG and NIRS in preterms with intraventricular hemorrhage and posthemorrhagic hydrocephalus

Das amplituden-integrierte EEG in der Neonatologie – Update 2019; December 14, 2019; Vienna (Austria)

- Neuromonitoring in preterms with intraventricular hemorrhage and posthemorrhagic hydrocephalus

4th Austrian Brain Club; September 15-20, 2018; Innsbruck (Austria)

- research presentation

44. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; June 7-9, 2018; Rostock (Germany)

- Superb microvascular imaging of the neonatal brain: feasibility, reproducibility, and normal imaging features

3rd Austrian Brain Club; September 15-20, 2017; Graz (Austria)

- research presentation

Euro-Asian Neonatology Conference; April 20-22, 2017; Yekaterinburg (Russia)

- LISA – Viennese experience and the effect on neurodevelopmental outcome and IVH (invited Keynote lecture)
- Workshop: Neuromonitoring in the neonatal ICU

6th international congress of union of european neonatal and perinatal societies UENPS; November 23-25th, 2016; Valencia (Spain)

- Brain metrics and impaired brain growth after intraventricular hemorrhage

2nd Austrian Brain Club; July 28, 2016; Vienna (Austria)

- research presentation

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ORAL PRESENTATIONS 2

42. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; June 2-4, 2016; Frankfurt (Germany)

- Correlation between NIRS and aEEG in hypothermia treated newborns with hypoxic-ischemic encephalopathy

1st Congress of joint European Neonatal Societies (jENS) – 56th ESPR/ESN Annual Meeting and 5th International Congress of UENPNS; September 15-20, 2015; Budapest (Hungary)

- Prediction of neurodevelopmental outcome in infants with intraventricular hemorrhage using a functional MRI score (Session: Young Investigator Prize session)

11th European Paediatric Neurology Society Congress; May 27-30, 2015; Vienna (Austria)

- NIRS, aEEG and outcome in hypothermia treated newborns with hypoxic-ischemic encephalopathy (Session: Fetal Neurology)

41. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; May 21-23, 2015; Stuttgart (Germany)

- Correlation between NIRS and aEEG in hypothermia treated newborns with hypoxic-ischemic encephalopathy

1st Austrian Brain Club; September 15-20, 2015; Innsbruck (Austria)

- research presentation

40. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin; June 26-28, 2014; Bonn (Germany)

- The influence of therapeutic hypothermia on aEEG and outcome in neonates with HIE

VII international perinatal dialog; September 11-13, 2014; Vienna (Austria)

- Neuroapoptosis following anesthesia

Monitoring day; February 24, 2014; Vienna (Austria)

- The use of aEEG and NIRS in perinatal asphyxia

Pediatric Academic Societies' Annual Meeting 2013 (PAS); May 4 – 7, 2013; Washington, D.C. (USA)

- Arrested differentiation in a neonatal mouse model of posthemorrhagic hydrocephalus

Hydrocephalus 2012 – The 4th Meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders; October 19 – 22, 2012; Kyoto (Japan)

- Differentiation arrest and pronounced inflammatory response in a neonatal mouse model of posthemorrhagic hydrocephalus

Hershey Conference of Developmental Brain Injury; June 5 – 8, 2012; London (UK)

- Study of neuroinflammation, glial progenitor cells, and growth factors in an ischemic mouse model of periventricular white matter injury

Pediatric Academic Societies' Annual Meeting 2012 (PAS); April 28 – May 1, 2012; Boston, MA (USA)

- Evaluation of the subventricular zone and the oligodendrocytic lineage in a neonatal mouse model of posthemorrhagic hydrocephalus

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POSTER PRESENTATIONS 1

- 09/2019 **3rd Congress of joint European Neonatal Societies (jENS)**
September 17 – 21, 2019 Maastricht (Netherlands)
- Serum neurofilament predicts neurodevelopmental outcome in preterm infants with brain injury
- 10/2018 **3rd Congress of joint European Neonatal Societies (jENS)**
October 30 – November 3, 2018 Paris (France)
- New reference values for cerebral ventricles in preterm neonates between 23 and 30 weeks gestational age
- 11/2017 **2nd Congress of joint European Neonatal Societies (jENS)**
October 31 – November 4, 2017 Venice (Italy)
- Outcome prediction in HIE II – Role of aEEG and NIRS
- 10/2017 **10th International Conference on Brain Monitoring and Neuroprotection**
October 5 – 7, 2017 Kilarney (Ireland)
- Superb microvascular imaging of the neonatal brain - Characterization of cerebral microvasculature in neonates
- 06/2017 **43. Tagung der Gesellschaft für Neonatologie und Päd. Intensivmedizin**
May 8 – 10, 2017 Dresden (Germany)
- Impairment of Brain Growth after Intraventricular Hemorrhage
- 10/2016 **EAPS (European Academy of Paediatric Societies) – 6th congress**
October 21 – 25, 2016 Geneva (Switzerland)
- Brain biometry shows impaired brain growth in neonates with intraventricular hemorrhage
- 07/2016 **2nd INAC (International Neonatology Association Conference)**
July 15 – 17, 2016 Vienna (Austria)
- Impairment of Brain Growth after Intraventricular Hemorrhage
 - Status Quo in Pediatric and Neonatal Simulation in the European German-Speaking Countries: The DACHI Survey
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POSTER PRESENTATIONS 2

- 10/2015 **9th International Conference on Brain Monitoring and Neuroprotection**
October 1 – 3, 2015 Cork (Ireland)
 - Outcome prediction in neonates with intraventricular hemorrhage using a functional MRI score
 - Amplitude-integrated EEG and near infrared spectroscopy in neonates with hypoxic-ischemic encephalopathy
- 05/2015 **11th European Paediatric Neurology Society Congress**
May 27 – 30, 2015 Vienna (Austria)
 - Prediction of outcome in preterm infants with intraventricular hemorrhage using a functional MRI score
 - Gestational age related reference values in preterm infants <30 weeks of gestation for the amplitude-integrated EEG using the Burdjalov score
- 04/2015 **41. Tagung der Gesellschaft für Neonatologie und Päd. Intensivmedizin**
May 21 – 23, 2015 Stuttgart (Germany)
 - Prediction of outcome in preterm infants with intraventricular hemorrhage using a functional MRI score
- 10/2014 **EAPS (European Academy of Paediatric Societies) – 5th congress**
October 17 – 21, 2014 Barcelona (Spain)
 - Amplitude-integrated EEG in infants with perinatal asphyxia
 - Laterality of intraventricular hemorrhage influences neurodevelopmental outcome in preterm infants
- 05/2014 **40. Tagung der Gesellschaft für Neonatologie und Päd. Intensivmedizin**
June 26 – 28, 2014 Bonn (Germany)
 - Paediatric Simulation Training (PST) – A peer-teaching project
- 06/2012 **Hershey Conference on Developmental Brain Injury**
June 05 – June 8, 2012 London (UK)
 - Evaluation of the white matter in a neonatal mouse model of posthemorrhagic hydrocephalus
 - In vivo diffusion tensor imaging with large deformation diffeomorphic metric mapping analysis reveals white matter injury in a mouse model of neonatal ischemia
 - Migration patterns of glial restricted precursor and oligodendrocyte progenitor cell transplantation in an Ischemic perinatal white matter injury model
- 04/2012 **PAS (Pediatric Academic Society)**
April 28 – May 1, 2012 Boston, MA (USA)
 - Evaluation of the subventricular zone and the oligodendrocytic lineage in a neonatal mouse model of posthemorrhagic hydrocephalus
- 03/2012 **ASN (Academic Society for Neurochemistry) – 43rd annual meeting**
March 3 – 7, 2012 Baltimore, MD (USA)
 - Evaluation of the glial response in a neonatal mouse model of posthemorrhagic hydrocephalus
 - The microglial and oligodendrocyte progenitor cell response in a mouse model of perinatal white matter injury
 - Glial restricted precursor and oligodendrocyte progenitor cell transplantation in an ischemic perinatal white matter injury model
- 11/2011 **Neuroscience - SFN (Society for Neuroscience)**
November 12 – 16, 2012 Washington, D.C. (USA)
 - Evaluation of the neuroinflammatory response in an ischemic neonatal mouse model of periventricular leucomalacia

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SCHOLARSHIPS AND PRICES

05/2022	Science award at the 48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin 2022
03/2019	Austrian Society of Pre- and Perinatal Medicine – Otto Thalhammer award 2019
05/2018	Medical University Vienna – Researcher of the Month May 2018
05/2017	Medical University Vienna – research scholarship
09/2015	ESPR scholarship for one of the best 10 abstracts at the 1 st Congress of joint European Neonatal Societies (jENS)
10/2012	Medical University Vienna – merit based scholarship
06/2011	Medical University Vienna – research scholarship
05/2011	Students4excellence Scholarship
10/2010 (2 weeks)	„From Sound to Ultrasound: Multimedia based Pediatric Cardiology Intensive Program“ in Crete (Greece)

FUNDING ACQUISITION

09/2021	WWTF Life-Sciences Call (LS20-030) Project: <u>PIMIENTo Precision Medicine in IntraVentricular hemorrhage for Outcome prediction</u> Award: 865.350€ (total), 247.760€ (our unit) Role: Co-Principal investigator
01/2017	Jubiläumsfond der Österreichischen Nationalbank (OENB) Project: <u>When to intervene in preterm infants with posthemorrhagic hydrocephalus</u> Award: 52.000€ Role: Co-Investigator/Supervisor

EMPLOYMENT HISTORY

07/2010 – 08/2010	Medical assistance (internal medicine, surgery, ER) Vaduz (Liechtenstein)
09/2008 – 03/2010	Part-time employment (practice for primary care) Vienna (Austria)
07/2010 – 08/2010	Part-time employment (practice for gynecology) Hollabrunn (Austria)

LANGUAGE SKILLS

German As a first language	★★★★	Polish As a first language	★★★★
English Fluent in spoken and written E. Further education: - „medical English - „Principles of scientific writing“	★★★★	French Basic knowledge School leaving examination – grade: A	★★★★

COMPUTER SKILLS

MS Office (ECDL) - MS Excel	★★★★	SPSS	★★★★
- MS Word & PowerPoint	★★★★	Graph Pad PRISM	★★★★
		Web design	★★★★

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PEER-REVIEWED PUBLICATIONS

First-author publications

Vaginal delivery is associated with neurochemical evidence of increased neuroaxonal remodelling in infants from the KUNO-Kids health study: cross-sectional analysis. *Neonatology*. 2017;112(3):193-202. doi: 10.1159/000526472.

Kürner K*, **Goeral K***, Atkinson A, Brandstetter S, Toncheva AA, Kabesch M, Apfelbacher C, Melter M, Seelbach-Göbel B, Berger A, Kuhle J, Wellmann S, KUNO-Kids study group.

(* shared first-authorship)

A novel magnetic resonance imaging-based scoring system to predict outcome in neonates born preterm with intraventricular haemorrhage. *Dev Med Child Neurol*. 2021;00:1-11. doi: 10.1111/dmcn.15116.

Goeral K, Kasprian G, Hüning BM, Waldhoer T, Fuiko R, Schmidbauer V, Prayer D, Felderhoff-Müser U, Berger A, Olischar M, Klebermass-Schrehof K.

Longitudinal Reference Values for Cerebral Ventricular Size in Preterm Infants Born at 23-27 Weeks of Gestation. *J Pediatr*. 2021 Jun 29:S0022-3476(21)00647-8. doi: 10.1016/j.jpeds.2021.06.065.

Goeral K, Schwarz H, Hammerl M, Brugger J, Wagner M, Klebermass-Schrehof K, Kasprian G, Kiechl-Kohlendorfer U, Berger A, Olischar M.

Considerable mortality and morbidity in neonates born below 500 gram. *Acta Paediatr*. 2021 Aug;110(8):2359-2365. doi: 10.1111/apa.15885.

Goeral K, Fuiko R, Binder J, Lindtner C, Jernej R, Rittenschober-Boehm J, Klebermass-Schrehof K, Berger A, Grill A.

Early life serum neurofilament dynamics predict neurodevelopmental outcome of preterm infants. *J Neurol*. 2021 Jul;268(7):2570-2577. doi: 10.1007/s00415-021-10429-5.

Goeral K*, Hauck A*, Atkinson A, Wagner MB, Pimpel B, Fuiko R, Klebermass-Schrehof K, Leppert D, Kuhle J, Berger A, Olischar M, Wellmann S.

(* shared first-authorship)

Microvessel ultrasound of neonatal brain parenchyma: feasibility, reproducibility, and normal imaging features by superb microvascular imaging (SMI). *Eur Radiol*. 2019 Apr;29(4):2127-2136. doi: 10.1007/s00330-018-5743-1.

Goeral K, Hojreh A, Kasprian G, Klebermass-Schrehof K, Weber M, Mitter C, Berger

A, Prayer D, Brugger PC, Vergesslich-Rothschild K, Patsch JM.

Prediction of Outcome in Neonates with Hypoxic-Ischemic Encephalopathy II: Role of Amplitude-Integrated Electroencephalography and Cerebral Oxygen Saturation Measured by Near-Infrared Spectroscopy. *Neonatology*. 2017;112(3):193-202. doi: 10.1159/000468976.

Goeral K, Urlesberger B, Giordano V, Kasprian G, Wagner M, Schmidt L, Berger A, Klebermass-Schrehof K, Olischar M.

Last-author publications

Routine use of cerebral magnetic resonance imaging in preterm infants born <28 weeks. *J Pediatr*. 2022 Jun 20;S0022-3476(22)00485-1. doi: 10.1016/j.jpeds.2022.05.033.

Buchmayer J, Kasprian G, Giordano V, Schmidbauer V, Steinbauer P, Klebermass-Schrehof K, Berger A, **Goeral K**.

Outcome prediction in neonatal hypoxic-ischemic encephalopathy using neurophysiology and neuroimaging. *Neonatology*. 2022. doi: 10.1159/000524751.

Steiner M, Urlesberger B, Giordano V, Kasprian G, Glatter S, Oberleitner-Leeb C, Rittenschober-Boehm J, Werther T, Berger A, Olischar M, **Goeral K**.

Association between fat-free mass and brain size in extremely preterm infants. *Nutrients* 2021, 13, 4205. doi: 10.3390/nu13124205.

Binder C, Buchmayer J, Thajer A, Giordano V, Schmidbauer V, Harreiter K, Klebermass-Schrehof K, Berger A, **Goeral K**.

Co-author publications

Cardiopulmonary resuscitation of a very preterm infant using high-frequency oscillation ventilation. *Resusc Plus*. 2022 Jun 28;11:100265. doi: 10.1016/j.resplu.2022.100265.

Buchmayer J, Wisgrill L, Schneider M, Werther T, **Goeral K**, Berger A, Schmölzer GM, Wagner M.

Different from the Beginning: WM Maturity of Female and Male Extremely Preterm Neonates-A Quantitative MRI Study. *AJNR Am J Neuroradiol*. 2022.

Schmidbauer VU, Yildirim MS, Dovjak GO, **Goeral K**, Buchmayer J, Weber J, Diego MC, Giordano V, Mayr-Geisl G, Prayer F, Stuempfen M, Lindenlaub F, List V, Glatter S, Rauscher A, Stuhr F, Lindner C, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G.

A Mixed-Lipid Emulsion Containing Fish Oil for the Parenteral Nutrition of Preterm Infants: No Impact on Visual Neuronal Conduction. *Nutrients* 2021, 13, 4241. doi: 10.3390/nu13124241

Binder C, Schned H, Longford N, Schwindt E, Thanhaeuser M, Thajer A, **Goeral K**, Tardelli M, Berry D, Wisgrill L, Seki D, Berger A, Klebermass-Schrehof K, Repa A, Giordano V.

Aberrant gut-microbiota-immune-brain axis development in premature neonates with brain damage. *Cell Host Microbe*. 2021 Sep 1:S1931-3128(21)00380-2. doi: 10.1016/j.chom.2021.08.004.

Seki D, Mayer M, Hausmann B, Pjevac P, Giordano V, **Goeral K**, Unterasinger L, Klebermass-Schrehof K, De Paepe K, Van de Wiele T, Spittler A, Kasprian G, Warth B, Berger A, Berry D, Wisgrill L.

Maternal Vaginal *Ureaplasma* spp. Colonization in Early Pregnancy Is Associated with Adverse Short- and Long-Term Outcome of Very Preterm Infants. *Children (Basel)*. 2021 Apr 3;8(4):276. doi: 10.3390/children8040276.

Rittenschober-Böhm J, Habermüller T, Waldhoer T, Fuiko R, Schulz SM, Pimpel B, **Goeral K**, Witt A, Berger A, Pichler K.

The Effect of Music on aEEG Cyclicity in Preterm Neonates. *Children (Basel)*. 2021 Mar 9;8(3):208. doi: 10.3390/children8030208.

Giordano V, **Goeral K**, Schrage-Leitner L, Berger A, Olischar M.

Development of a 3D printed patient-specific neonatal brain simulation model using

multimodality imaging for perioperative management. *Pediatr Res*. 2021 Mar 2. doi: 10.1038/s41390-021-01421-w.

Wagner M, Werther T, Unger E, Kasprian G, Dovjak G, Dorfer C, Schned H, Steinbauer P, **Goeral K**, Olischar M, Roessler K, Berger A, Oberoi G.

Impact of Prematurity on the Tissue Properties of the Neonatal Brain Stem: A Quantitative MR Approach. *AJNR Am J Neuroradiol*. 2021 Mar;42(3):581-589. doi: 10.3174/ajnr.A6945.

Schmidbauer V, Dovjak G, Geisl G, Weber M, Diogo MC, Yildirim MS, **Goeral K**, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G.

Validity of SyMRI for Assessment of the Neonatal Brain. *Clin Neuroradiol*. 2021 Jun;31(2):315-323. doi: 10.1007/s00062-020-00894-2.

Schmidbauer V, Geisl G, Cardoso Diogo M, Jengojan S, Perepelov V, Weber M, **Goeral K**, Lindenlaub F, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G.

SyMRI detects delayed myelination in preterm neonates. *Eur Radiol*. 2019 Dec;29(12):7063-7072. doi: 10.1007/s00330-019-06325-2.

Schmidbauer V, Geisl G, Diogo M, Weber M, **Goeral K**, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G.

Vaginal *Ureaplasma parvum* serovars and spontaneous preterm birth. *Am J Obstet Gynecol*. 2019 Jun;220(6):594.e1-594.e9. doi: 10.1016/j.ajog.2019.01.237.

Rittenschober-Böhm J, Waldhoer T, Schulz SM, Pimpel B, **Goeral K**, Kasper DC, Witt A, Berger A.

Effects of Feedback on Chest Compression Quality: A Randomized Simulation Study. *Pediatrics*. 2019 Feb;143(2):e20182441. doi: 10.1542/peds.2018-2441.

Wagner M, Bibl K, Hrdliczka E, Steinbauer P, Stiller M, Gröpel P, **Goeral K**, Salzer-Muhar U, Berger A, Schmölzer GM, Olischar M.

The power of N-PASS, aEEG, and BIS in detecting different levels of sedation in neonates: A preliminary study. *Paediatr Anaesth*. 2018 Dec;28(12):1096-1104. doi: 10.1111/pan.13509. Giordano V, Deindl P, **Goeral K**, Czaba C, Weninger M, Berger A, Olischar M, Werther T.

First Trimester Vaginal *Ureaplasma* Biovar Colonization and Preterm Birth: Results of a Prospective Multicenter Study. *Neonatology*. 2018;113(1):1-6. doi: 10.1159/000480065.

Rittenschober-Böhm J, Waldhoer T, Schulz SM, Stihsen B, Pimpel B, **Goeral K**, Hafner E, Sliutz G, Kasper DC, Witt A, Berger A.

Student peer teaching in paediatric simulation training is a feasible low-cost alternative for education. *Acta Paediatr.* 2017 Jun;106(6):995-1000. doi: 10.1111/apa.13792.

Wagner M, Mileder LP, **Goeral K**, Klebermass-Schrehof K, Cardona FS, Berger A, Schmölzer GM, Olischar M.

Biometry of the corpus callosum assessed by 3D ultrasound and its correlation to neurodevelopmental outcome in very low birth weight infants. *J Perinatol.* 2017 Apr;37(4):448-453. doi: 10.1038/jp.2016.231.

Klebermass-Schrehof K, Aumüller S, **Goeral K**, Vergesslich-Rothschild K, Fuiko R, Brandstetter S, Berger A, Jilma B, Haiden N.

Diffusion Tensor Imaging Abnormalities in the Cerebral White Matter Correlate with Sex-Dependent Neurobehavioral Deficits in Adult Mice with Neonatal Ischemia. *Dev Neurosci.* 2016;38(2):83-95. doi: 10.1159/000442943.

Breu M, Zhang J, Porambo M, Pletnikov MV, **Goeral K**, Kakara M, Johnston MV, Fatemi A.

Ischemia-induced neuroinflammation is associated with disrupted development of oligodendrocyte progenitors in a model of periventricular leukomalacia. *Dev Neurosci.* 2013;35(2-3):182-96. doi: 10.1159/000346682.

Falahati S, Breu M, Waickman AT, Phillips AW, Arauz EJ, Snyder S, Porambo M, **Goeral K**, Comi AM, Wilson MA, Johnston MV, Fatemi A.

BOOK CHAPTER

First-author

Chapter “Neonatal brain injuries” in Neurobiology of Disease 2. Oxford University Press. ISBN: 9780199937837

Goeral K, Johnston MV, Fatemi A.

REVIEW

Co-author publications

Pain and Sedation Scales for Neonatal and Pediatric Patients in a Preverbal Stage of Development: A Systematic Review. JAMA Pediatr. 2019 Dec 1;173(12):1186-1197. doi: 10.1001/jamapediatrics.2019.3351.

Giordano V, Edobor J, Deindl P, Wildner B, **Goeral K**, Steinbauer P, Werther T, Berger A, Olischar M.

Review of Routes to Administer Medication During Prolonged Neonatal Resuscitation. Pediatr Crit Care Med. 2018 Apr;19(4):332-338.

doi: 10.1097/PCC.0000000000001493.

Wagner M, Olischar M, O'Reilly M, **Goeral K**, Berger A, Cheung PY, Schmölzer GM.