



CURRICULUM VITAE
Priv.-Doz. Dr. med. univ. et scient.
Katharina GOERAL

Curriculum Vitae (1/4)

Priv.-Doz. 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

- 03/2023 **Habilitation (Priv. Doz.)**
- Since 11/2022 **Internal career agreement** (“Interne Karrierevereinbarung”) for
the scientific university staff
- Since 12/2019 **Attending Physician**
Department of Pediatrics and Adolescent Medicine
Division of Neonatology, Intensive Care and Pediatric Neurology
- 12/2019 – 11/2021 **Special Interest Training** (“Zusatzfach Neonatologie und
Pädiatrische Intensivmedizin”)
Department of Pediatrics and Adolescent Medicine
Division of Neonatology, Intensive Care and Pediatric Neurology
- 10/2013 – 11/2019 **Residency** (“Facharzt für Kinder- und Jugendheilkunde”)
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

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)

Priv.-Doz. DDr. Katharina GOERAL

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

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)

Curriculum Vitae (4/4)

Priv.-Doz. DDr. Katharina GOERAL

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

| | |
|---------|--|
| 02/2023 | GNPI Projektförderung Project: <u>Preclision Medicine in IntravENTricular hemorrhage</u> Award: 10.000€ |
| 09/2021 | WWTF Life-Sciences Call (LS20-030) Project: <u>PIMIENTo Preclision 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 | ★★★★★ |

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)

PEER-REVIEWED PUBLICATIONS

First-author publications

1. Vaginal delivery is associated with neurochemical evidence of increased neuroaxonal remodelling in infants from the KUNO-Kids health study: cross-sectional analysis. *Neonatology*. 2022;119(6):769-776. 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)
2. 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/dmnc.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.
3. 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.
4. 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.
5. 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)
6. 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.

7. 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

1. Cerebellar Pathologies in Extremely Preterm Infants with Intraventricular Haemorrhage in Relation to Neurodevelopmental Outcome. *Dev Med Child Neurol* / minor revision.
Buchmayer J, Fuiko R, Kienast P, Stummer S, Kasprian G, Berger A, **Goeral K.**
2. Acute Impact of Posthemorrhagic Ventricular Dilatation on Cerebral Oxygenation in Preterm Infants with Intraventricular Hemorrhage. *Acta Paediatrica* / minor revision.
Steiner M, Elis J, Giordano V, Kienast P, Ciglar L, Langs G, Vignolle GA, Olischar M, Berger A, **Goeral K.**
3. Neurodevelopmental Outcome in Preterm Infants with Intraventricular Hemorrhages: The Potential of Quantitative Brainstem MRI. *Cereb Cortex*. 2024 May 2;34(5):bhae189. doi: 10.1093/cercor/bhae189.
Kienast P, Schmidbauer V, Yildirim MS, Seeliger S, Stuempflen M, Elis J, Giordano Vito, Fuiko R, Olischar M, Vierlinger K, Noehammer C, Berger A, Prayer D, Kasprian G, **Goeral K.**
4. MRI based Reference Values for 2D Quantitative Brain Metrics in a Cohort of Extremely Preterm Infants. *Neonatology*. 2024;121(1):97-105. doi: 10.1159/000534009.
Buchmayer J, Kasprian G, Jernej R, Stummer S, Schmidbauer V, Giordano V, Klebermass-Schrehof K, Berger A, **Goeral K.**
5. Intrauterine detection of Ureaplasma species after vaginal colonization in pregnancy and neonatal outcome. *Neonatology*. 2023 Dec 5:1-8. doi: 10.1159/000534779.
Rittenschober-Boehm J, Fuiko R, Farr A, Willinger B, Berger A, **Goeral K.**
6. Brain biometry reveals impaired brain growth in preterm neonates with intraventricular hemorrhage. *Neonatology*. 2023;120(2):225-234. doi: 10.1159/000528981.
Steiner M, Schwarz H, Kasprian G, Rittenschober-Boehm J, Schmidbauer V, Fuiko R, Olischar M, Klebermass-Schrehof K, Berger A, **Goeral K.**
7. 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.**

8. 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.**
9. 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

1. Reference ranges for arterial oxygen saturation, heart rate and cerebral oxygen saturation during immediate postnatal transition in extremely and very preterm neonates. *Pediatr.* 2024 May 30:114132. doi: 10.1016/j.jpeds.2024.114132.
Wolfsberger CH, Schwabegger B, Urlesberger B, Avian A, **Goeral K**, Hammerl M, Perme T, Dempsey EM, Springer L, Lista G, Szczapa T, Fuchs H, Karpinski L, Bua J, Law B, Buchmayer J, Kiechl-Kohlendorfer U, Kornhauser-Cerar L, Schwarz CE, Gründler K, Stucchi I, Klebermass-Schrehof K, Schmölzer GM, Pichler G; COSGOD III study group.
2. Maternal biomarkers in predicting neonatal sepsis after preterm premature rupture of membranes in preterm infants. *Acta Paediatr.* 2024 Jan 24. doi: 10.1111/apa.17114.
Grill A, **Goeral K**, Leitich H, Farr A, Berger A, Rittenschober-Boehm J.
3. Quantitative Magnetic Resonance Imaging for Neurodevelopmental Outcome Prediction in Neonates Born Extremely Premature – An Exploratory Study. *Clin Neuroradiol.* 2024 Jan 30. doi: 10.1007/s00062-023-01378-9.
Schmidbauer V, Yildirim M, Dovjak G, **Goeral K**, Buchmayer J, Weber M, Kienast P, Diogo M, Prayer F, Stuempflen M, Kittinger J, Malik J, Nowak N, Klebermass-Schrehof K, Fuiko R, Berger A, Prayer D, Kasprian G, Giordano V.
4. Cerebral regional tissue Oxygen Saturation to Guide Oxygen Delivery in preterm neonates during immediate transition after birth (COSGOD III) – An investigator-initiated randomized, multi-center, multi-national, phase III clinical trial. *BMJ.* 2023 Jan 24:380:e072313. doi: 10.1136/bmj-2022-072313.
Pichler G, **Goeral K**, Hammerl M, Perme T, Dempsey EM, Springer L, Lista G, Szczapa T, Fuchs H, Karpinski L, Bua J, Avian A, Law B, Urlesberger B, Buchmayer J, Kiechl-Kohlendorfer U, Kornhauser Cerar L, Schwarz CE, Gründler K, Stucchi I, Schwabegger B, Klebermass-Schrehof K, Schmölzer GM.
5. Regular lung recruitment maneuvers during high-frequency oscillatory ventilation in extremely preterm infants: a randomized controlled trial. *BMC Pediatr.* 2022 Dec 12;22(1):710. doi: 10.1186/s12887-022-03780-7.
Werther T, Kueng E, Aichhorn L, Pummer L, Goeral K, Berger A, Hermon M, Klebermass-Schrehof K.
6. Synthetic MR Imaging-Based WM Signal Suppression Identifies Neonatal Brainstem Pathways in Vivo. *AJNR Am J Neuroradiol.* 2022 Nov. doi:

10.3174/ajnr.A7710.

Schmidbauer VU, Yildirim MS, Dovjak GO, Weber M, Diego MC, Milos RI, Giordano V, Prayer F, Stuempfen M, **Goeral K**, Buchmayer J, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G.

7. 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, Schmörlzer GM, Wagner M.

8. Different from the Beginning: WM Maturity of Female and Male Extremely Preterm Neonates-A Quantitative MRI Study. *AJNR Am J Neuroradiol*. 2022 Apr;43(4):611-619. doi: 10.3174/ajnr.A7472.

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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

21. 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.

22. 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.

23. 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.

24. 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.