

CURRICULUM VITAE

NAME: Julia Buchmayer, MD
ADDRESS: 1090 Vienna, Austria
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DATE OF BIRTH: 21st June 1996

NATIONALITY: Austrian



Professional Clinical Experience

Medical University of Vienna, AKH Wien
Pediatric Residency at the Division of Neonatology

Vienna, Austria
since November 2020

Kepler Universitätsklinikum Linz
Clinical Rotation, general surgery

Linz, Austria
August - October 2020

Education

Medical University of Vienna
PhD in Clinical Neuroscience (Mentor: Goeral K, MD, PhD)
"Outcome prediction using biomarkers, as well as neurophysiological, imaging, and clinical data of high-risk newborns (<28 weeks gestational age)"

Vienna, Austria
since October 2022

Medical University of Graz
Dr.med.univ. in Human medicine

Graz, Austria
October 2014 – July 2020

Diploma Thesis
"Nichtinvasive Messung von peripherer venöser Sauerstoffsättigung bei Neugeborenen mit und ohne Infektion/Inflammation – eine retrospektive Studie"
(Department of Pediatrics and Adolescent Medicine, Division of Neonatology)

July 2019

Practitioner in Medical Simulation (30 ECTS)

October 2018 – July 2019

USMLE Step 1

September 2019

BRG Wels Wallererstraße
Matura with honours (school leaving examination)

Wels, Austria
September 2006 – June 2014

International Clinical Experience

Children's Hospital Westmead
• Department of Neonatology (January / February 2020)

Sydney, Australia

Pennsylvania Hospital
• Department of Internal Medicine (March-June 2020) *COVID-shift*

Philadelphia, USA

George Washington University, Children's National Medical Center
• Department of Pediatric Neurology and Neonatology (August 2018)

Washington D.C., USA

Klinikum rechts der Isar, TU München
• Department of Gynecology and Obstetrics (August / September 2019)

Munich, Germany

Further Clinical and Research Experience

Medical University of Vienna

Research Group "Neonatal Neurology" with K. Goeral, MD PhD

Vienna, Austria

since October 2020

The University of Sydney, Westmead Hospital

Research Assistant and Co-Investigator - Neonatology

Survey about "Skin Care Management in Premature Neonates" with Dr Pranav Jani

Sydney, Australia

since June 2020

Neonatal „Hands-On“ Resuscitation Workshop (May 2023)

Vienna, Austria

ÖGUM Sonographie Workshop (Abdomen) (June 2022)

Reinischkogel, Austria

Workshop „neonatal ventilation“ by Dr. Martin Wald (June 2022)

Salzburg, Austria

EPALS European Pediatric Advanced Life Support (May 2021)

Vienna, Austria

Medical University of Graz

Research Assistant in the Neonatal NIRS-group

with Univ.-Prof. Dr. Berndt Urlesberger and Dr. Lukas Mileder

Graz, Austria

November 2017 – March 2020

Clinical Skills Center, Medical University of Graz (simulation center)

Teaching tutor (part time – July 2018 – December 2019)

Graz, Austria

IPOKRATES

Pediatric bedside teaching seminar (Clifford Lo, MD PhD, Harvard Medical School)

Innsbruck, Austria

November 2019

Vienna, on the 26th of October 2023, **Julia Buchmayer**

Publications

Buchmayer, J; Kasprian, G; Jernej, R; Stummer, S; Schmidbauer, V; Giordano, V; Klebermass-Schrehof, K; Berger, A; Goeral, K
Magnetic Resonance Imaging-Based Reference Values for Two-Dimensional Quantitative Brain Metrics in a Cohort of Extremely Preterm Infants

Neonatology. 2023; Doi: 10.1159/000534009

Herrera, S; Cabacungan, E; Cohen, S; Thyagarajan, B; Jefferies, K; Avanaki, K; Manwar, R; McGuire, L; Islam, T; Shoo, A; Charbel, FT; Pillers, DM; Verschuur, A; Van Steenis, A; Boswinkel, V; Nijholt, I; Boomsma, M; Steggerda, S; Meijler, G; Leijser, L; Park, SG; Yang, HJ; Lim, SY; Kim, SH; Shin, SH; Kim, E; Kim, H; Shiraki, A; Kidokoro, H; Watanabe, H; Taga, G; Narita, H; Mitsumatsu, T; Kumai, S; Suzui, R; Sawamura, F; Ito, Y; Yamamoto, H; Nakata, T; Sato, Y; Hayakawa, M; Natsume, J; **Buchmayer, J**; Kasprian, G; Giordano, V; Jernej, R; Klebermass-Schrehof, K; Berger, A; Goeral, K; Garvey, A; El-Shibiny, H; Yang, E; Inder, T; El-Dib, M; Garvey, A; Grant, E; Manning, S; Volpe, J; Inder, T; Roychaudhuri, S; Pineda, R; Sharon, D; Singh, E; Steele, T; Sheldon, Y; Cuddyer, D; Yang, E; Erdei, C; Szakmar, E; Andorka, C; Barta, H; Sesztak, T; Varga, E; Szabo, M; Jermendy, A; Panzarini, I; King, R; Verschuur, AS; Hendson, L; Carlson, H; Scotland, J; Zein, H; Mohammed, K; Meijler, G; Leijser, L; Bach, A; Lambing, H; Rogers, EE; Xu, D; James, BA; Ferriero, DM; Glass, HC; Gano, D; Igreja, L; Ferreira, A; Gomes, R; Sousa, B; Novo, A; Alves, JE; Proença, E; Carvalho, C

Proceedings of the 14th International Newborn Brain Conference: Neuro-imaging studies: Clearwater, Florida, USA, February 8th-11th 2023

J. Neonatal-Perinat. 2023; Doi: 10.3233/NPM-239005

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; Urlsberger, B; **Buchmayer, J**; Kiechl-Kohlendorfer, U; Kornhauser-Cerar, L; Schwarz, CE; Gründler, K; Stucchi, I; Schwabegger, B; Klebermass-Schrehof, K; Schmölzer, GM

Cerebral regional tissue Oxygen Saturation to Guide Oxygen Delivery in preterm neonates during immediate transition after birth (COGOD III): multicentre randomised phase 3 clinical trial.

BMJ. 2023; Doi: 10.1136/bmj-2022-072313

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

Synthetic MR Imaging-Based WM Signal Suppression Identifies Neonatal Brainstem Pathways in Vivo

AJNR Am J Neuroradiol. 2022; Doi: 10.3174/ajnr.A7710

Jani, P; Mishra, U; **Buchmayer, J**; Walker, K; Gözen, D; Maheshwari, R; D'Çruz, D; Lowe, K; Wright, A; Marceau, J; Culcer, M; Priyadarshi, A; Kirby, A; Moore, J; Oei, L; Shah, V; Vaidya, U; Khashana, A; Godambe, S; Cheah, F; Zhou, W; Xiaojing, M; Satardien, M

Global variation in skin injuries and skincare practices in extremely preterm infants

World J Pediatr. 2022; Doi: 10.1007/s12519-022-00625-2

Jani, P; Mishra, U; **Buchmayer, J**; Walker, K; Gözen, D; Maheshwari, R; D'Çruz, D; Lowe, K; Wright, A; Marceau, J; Culcer, M; Priyadarshi, A; Kirby, A; Moore, J; Oei, L; Shah, V; Vaidya, U; Khashana, A; Godambe, S; Cheah, F; Zhou, W; Xiaojing, M; Satardien, M

Thermoregulation and golden hour practices in extremely preterm infants: an international survey

Pediatr Res. 2022; Doi: 10.1038/s41390-022-02297-0

Buchmayer, J; Kasprian, G; Giordano, V; Schmidbauer, V; Steinbauer, P; Klebermass-Schrehof, K; Berger, A; Goeral, K
Routine use of cerebral magnetic resonance imaging in infants born extremely preterm

J Pediatr. 2022; Doi: 10.1016/j.jpeds.2022.05.033

Buchmayer, J; Wisgrill, L; Schneider, M; Werther, T; Goeral, K; Berger, A; Schmoelzer, G; Wagner, M
Cardiopulmonary resuscitation of a very preterm infant using high-frequency oscillation ventilation

Resusc Plus. 2022; Doi: 10.1016/j.resplus.2022.100265

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

Different from the Beginning: WM Maturity of Female and Male Extremely Preterm Neonates-A Quantitative MRI Study

AJNR Am J Neuroradiol. 2022; Doi: 10.3174/ajnr.A7472

Miledler, LP; **Buchmayer, J**; Baik-Schneditz, N; Schwabegger, B; Höller, N; Andersen, CC; Stark, MJ; Pichler, G; Urlsberger, B
Non-invasively Measured Venous Oxygen Saturation as Early Marker of Impaired Oxygen Delivery in Preterm Neonates.

Front Pediatr. 2022; 10: 834045 Doi: 10.3389/fped.2022.834045

Binder, C; **Buchmayer J**; Thajer, A; Giodrano, V; Schmidbauer, V; Harreiter, K; Klebermass-Schrehof, K; Berger, A; Goeral K
Association between Fat-Free Mass and Brain Size in Extremely Preterm Infants.

Nutrients. 2021; Doi: 103390/nu13124205.

Presentations at scientific conferences

Schwaberg, B; Urlesberger, B; Wolfsberger, CH; Baik-Schneditz, N; Pfuertscheller, D; Goeral, K; Hammerl, M; Perme, T; Dempsey, E; Springer, L; Lista, G; Szczapa, T; Fuchs, H; Karpinski, L; Bua, J; Avian, A; Law, B; Buchmayer, J; Kiechl-Kohlendorfer, U; Kornhauser-Cerar, L; Schwarz, C; Gründler, K; Stucchi, I; Klebermass-Schrehof, K; Schmölzer, G; Pichler, G

Demographic characteristics and monitoring parameters of premature neonates <32 weeks of gestation with and without adverse outcome: a secondary analysis of the COSGOD-III trial.

Monatsschr Kinderheilkd. 2023; 171(Suppl 4): S327-S328.-61. Jahrestagung der Österreichischen Gesellschaft für Kinder- und Jugendheilkunde (ÖGKJ); SEP 28-30, 2023; Leoben, AUSTRIA. [Poster]

Buchmayer, J; Kasprian, G; Klebermaß-Schrehof, K; Berger, A; Goeral K

Influence of cerebellar hemorrhage in very preterm infants with intraventricular hemorrhage in relation to neurodevelopmental outcome JENS 2023 - 5th Congress of joint European Neonatal Societies; SEP 19-23, 2023; Rome, ITALY. [Poster]

Urlesberger, B; Martensen, J; Schwaberg, B; Baik-Schneditz, N; Höller, N; Pfuertscheller, D; Goeral, K; Hammerl, M; Perme, T; Dempsey, E; Springer, L; Lista, G; Szczapa, T; Fuchs, H; Karpinski, L; Bua, J; Avian, A; Law, B; Buchmayer, J; Kiechl-Kohlendorfer, U; Kornhauser-Cerar, L; Schwarz, C; Gründler, K; Stucchi, I; Klebermass-Schrehof, K; Schmölzer, G; Pichler, G

Are There Sex Related Differences In Oxygenation During Fetal-To-Neonatal Transition In Preterm Infants?

SHORT ORAL PRESENTATION SESSION 12 - RESUSCITATION. 2023; 34-36.-JENS 2023 - 5th Congress of joint European Neonatal Societies; SEP 19-23, 2023; Rome, ITALY. [Oral Communication]

Urlesberger, B; Martensen, J; Schwaberg, B; Baik-Schneditz, N; Höller, N; Pfuertscheller, D; Goeral, K; Hammerl, M; Perme, T; Dempsey, E; Springer, L; Lista, G; Szczapa, T; Fuchs, H; Karpinski, L; Bua, J; Avian, A; Law, B; Buchmayer, J; Kiechl-Kohlendorfer, U; Kornhauser-Cerar, L; Schwarz, C; Gründler, K; Stucchi, I; Klebermass-Schrehof, K; Schmölzer, G; Pichler, G

In A Large Cohort Of Preterm Infants With Need For Respiratory Support During Fetal-To-Neonatal Transition: How About The SpO2 At 5 Minutes?

POSTER WALK – RESUSCITATION 1. 2023; 18-20.-JENS 2023 - 5th Congress of joint European Neonatal Societies; SEP 19-23, 2023; Rome, ITALY. [Poster]

Schwaberg, B; Urlesberger, B; Wolfsberger, CH; Baik-Schneditz, N; Pfuertscheller, D; Goeral, K; Hammerl, M; Perme, T; Dempsey, E; Springer, L; Lista, G; Szczapa, T; Fuchs, H; Karpinski, L; Bua, J; Avian, A; Law, B; Buchmayer, J; Kiechl-Kohlendorfer, U; Kornhauser-Cerar, L; Schwarz, C; Gründler, K; Stucchi, I; Klebermass-Schrehof, K; Schmölzer, G; Pichler, G

DEMOGRAPHIC CHARACTERISTICS AND MONITORING PARAMETERS OF PREMATURE NEONATES <32 WEEKS' GESTATION WITH AND WITHOUT ADVERSE OUTCOME: A SECONDARY ANALYSIS OF THE COSGOD III TRIAL

POSTER WALK – RESUSCITATION 1. 2023; 13-15.-JENS 2023 - 5th Congress of joint European Neonatal Societies; SEP 19-23, 2023; Rome, ITALY. [Poster]

Buchmayer, J; Kasprian, G; Klebermaß-Schrehof, K; Berger, A; Goeral K

Influence of cerebellar hemorrhage in very preterm infants with intraventricular hemorrhage in relation to neurodevelopmental outcome Z Geburtsh Neonatol. 2023; 227(3):e52-e53.-49. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI); JUN 15-17, 2023; Hamburg, GERMANY. [Oral Communication]

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;

Schwaberg, B; Klebermass-Schrehof, K; Schmölzer, GM; COSGOD III study group

Cerebral regional tissue Oxygen Saturation to Guide Oxygen Delivery in preterm neonates during immediate transition after birth (COSGOD III).

Abstracts PAS. 2023; -Pediatric Academic Societies (PAS) Annual Meeting 2023; APR 27- MAY 1, 2023; Washington, D.C., U.S.A. [Poster]

Buchmayer, J; Kasprian, G; Giordano, V; Jernej, R; Klebermass-Schrehof, K; Berger, A; Goeral, K

MRI based reference values for 2D quantitative brain measurements in a cohort of extremely preterm infants

14th International Newborn Brain Conference; FEB, 8-11, 2023; Clearwater, Florida, USA. [Poster with Presentation]

Buchmayer, J; Kasprian, G; Klebermaß-Schrehof, K; Berger, A; Goeral K

MRI based reference values for 2D quantitative brain measurements in a cohort of extremely preterm infants

Frontiers in Pediatrics. 2022; -The 9th Congress of the European Academy of Pediatric Societies; OCT, 7-11, 2022; Barcelona, SPAIN. [Poster]

Buchmayer, J; Wisgrill, L; Schneider, M; Werther, T; Goeral, K; Berger, A; Schmoelzer, G; Wagner, M

Cardiopulmonary resuscitation of an extremely low birth weight infant using high-frequency oscillation ventilation

Frontiers in Pediatrics. 2022; -The 9th Congress of the European Academy of Pediatric Societies; OCT, 7-11, 2022; Barcelona, SPAIN. [Oral Communication]

Buchmayer, J; Kasprian, G; Klebermaß-Schrehof, K; Berger, A; Goeral K

MRI based reference values for 2D quantitative brain measurements in a cohort of extremely preterm infants

Abstractband - 48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e. V. 2022; 39-39.-48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. (GNPI) & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e. V. (DGPI) 2022; MAY 18-21, 2022; Aachen, GERMANY. [Oral Communication]

Buchmayer, J; Wisgrill, L; Schneider, M; Werther, T; Goeral, K; Berger, A; Schmoelzer, G; Wagner, M

Cardiopulmonary resuscitation of an extremely low birth weight infant using high-frequency oscillation ventilation

Abstractband - 48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e. V. 2022; 39-39.-48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. (GNPI) & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e. V. (DGPI) 2022; MAY 18-21, 2022; Aachen, GERMANY. [Oral Communication]

*Binder, C; **Buchmayer, J**; Thajer, A; Giordano, V; Schmidbauer, V; Harreiter, K; Klebermass-Schrehof, K; Berger, A; Goeral K*
Association between Fat-Free Mass and Brain Size in Extremely Preterm Infants.
Abstractband - 48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e.V. 2022; 39-39.-48. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. (GNPI) & 29. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie e.V. (DGPI) 2022; MAY 18-21, 2022; Aachen, GERMANY. [Oral Communication]

***Buchmayer, J**; Giordano, V; Schmidbauer V; Kasprian G; Klebermaß-Schrehof K; Berger A; Goeral K*
Routinemäßiger Einsatz von zerebraler Magnetresonanztomographie bei Frühgeborenen unter 28 Schwangerschaftswochen
Abstractband GNPI 2021. 2021; 100-100.-47. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin e. V. (GNPI); JUN 16-19, 2021; Vienna, AUSTRIA (Online-Tagung). (ISBN: 978-3-948023-15-7) [Poster]

***Buchmayer, J**; Mileder, LP; Urlsberger, B; Baik-Schneditz, N; Schwabberger, B; Höller, N; Pichler, G*
Beeinträchtigung der peripheren Gewebeoxygenierung bei Neugeborenen mit früher Inflammation/Infektion in den ersten 72 Lebensstunden.
Abstracts der 58. Jahrestagung der Österreichischen Gesellschaft für Kinder- und Jugendheilkunde 2020. Monatsschr Kinderheilkd. 2020; 168 (Suppl. 2): S130-130.-58. Jahrestagung der Österreichischen Gesellschaft für Kinder- und Jugendheilkunde (ÖGKJ); SEP 24-26, 2020; Innsbruck, AUSTRIA. [Poster]

***Buchmayer, J**; Mileder, LP; Urlsberger, B; Baik-Schneditz, N; Schwabberger, B; Höller, N; Pichler, G*
IMPAIRED PERIPHERAL OXYGENATION IN NEONATES WITH AN INFLAMMATION/INFECTION DURING THE FIRST 72 HOURS AFTER BIRTH.
Frontiers in Pediatrics. 2020; -8th Congress of the European Academy of Paediatric Societies (EAPS) - Virtual Congress; OCT 16-19, 2020; Barcelona, SPAIN. [Poster]

*Mileder, L; Urlsberger, B; **Buchmayer, J**; Baik-Schneditz, N; Schwabberger, B; Höller, N; Pichler, G*
NON-INVASIVE MEASUREMENT OF VENOUS OXYGEN SATURATION AS EARLY MARKER OF IMPAIRED OXYGEN SUPPLY IN PRETERM NEONATES.
Proceedings of the The 6th Congress of the European Academy of Paediatric Societies (EAPS). 2018; -The 6th Congress of the European Academy of Paediatric Societies (EAPS); OCT 30 - NOV 3, 2018; Paris, FRANCE. [Poster]

*Mileder, L; Urlsberger, B; **Buchmayer, J**; Baik-Schneditz, N; Schwabberger, B; Höller, N; Pichler, G*
Nichtinvasive Messung von venöser Sauerstoffsättigung als Frühindikator einer Einschränkung der Sauerstoffversorgung bei Frühgeborenen.
Monatsschr Kinderheilkd. 2018; 166(Suppl1):S65-S66.-44. Jahrestagung der Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin (GNPI); JUN 7-9, 2018; Rostock, GERMANY. [Poster]

*Mileder, L; Urlsberger, B; **Buchmayer, J**; Baik-Schneditz, N; Schwabberger, B; Höller, N; Pichler, G*
Nichtinvasive Messung von venöser Sauerstoffsättigung als Frühindikator einer Einschränkung der Sauerstoffversorgung bei Frühgeborenen.
Monatsschr Kinderheilkd. 2018; 166 (Suppl. 3): S196-196.-56. Jahrestagung der Österreichischen Gesellschaft für Kinder- und Jugendheilkunde (ÖGKJ); SEP 27-29, 2018; Linz, AUSTRIA. [Poster]

*Mileder, LP; **Buchmayer, J**; Urlsberger, B*
Noninvasive measurement of venous oxygen saturation as early marker of reduced oxygen supply in preterm neonates.
NIRS Research Group Update; MAR 16, 2018; Graz, AUSTRIA. 2018. [Oral Communication]