

Curriculum Vitae

Shoma Barbara Berkemeyer (born Gomes)

Professor Nutritional Sciences, Hochschule Osnabrück

Head, NutritionLab

Am Krümpel 41, 49090, Osnabrück, Germany

Phone: +495419695142

E-Mail: s.berkemeyer@hs-osnabrueck.de

Website: <https://www.hs-osnabrueck.de/prof-dr-shoma-barbara-berkemeyer/>

Education

- 08/2023 Certificate Developmental Psychology and Education, FernUniversität in Hagen, Germany
- 05/2012 Breast Cancer Screening, Netherlands Institute for Health Sciences (NIHS), MC Erasmus, Rotterdam, The Netherlands
- 06/2008 PhD Nutritional Epidemiology, Rheinische Friedrich-Wilhelms-Universität Bonn
„Dietary and renal acid load across various age-groups”, Magna cum laude
Advisor: Prof. Thomas Remer
- 09/1995 MSc Development Economics and Policy, University of Reading, UK
“Human capital is the key determinant of economic growth”, Grade A
Advisor: Prof. Paul Mosley
- 05/1991 MSc Nutrition, Delhi University
Biochemical and dietary factors in nephrolithiasis in larger area Delhi
Advisor: Dr. Usha Bhargava, Reader
Internship: CDR Medical Center under nephrologist Dr. Anupam Bhargava
- 04/1988 Higher Secondary School, Mater Dei Convent School, Tilak Lane, New Delhi

Relevant Experience

- 12/2021 Call towards Professor “Human Nutrition” Hochschule Niederrhein, declined, Continue as Professor “Nutritional Sciences” Hochschule Osnabrück, stay negotiations
- Since 05/2019 Professor “Nutritional Sciences” Hochschule Osnabrück & Head NutritionLab
Responsible for entire curriculum development, implementation, research and practice of the nutritional sciences
- 07/2015-04/19 Associate/ Visiting Professor “Methodology of Health Research Focus Demography And User-Orientation”, Hochschule für Gesundheit, Bochum
- 09/2017-03/19 Visiting Lecturer „Cross-cutting Field of Epidemiology, Medical Biometry and Medical Informatics”, Faculty of Medicine, Ruhr-Universität Bochum (RuB)
- 06/2012-06/15 Head, Quality Assurance and Scientific Evaluation, Mammography Reference Center, Faculty of Medicine, University Hospital of Münster
- 04/2010-03/12 Coordinator, Cancer Epidemiology, Institute for Medical Informatics, Biometry and

Epidemiology, Faculty of Medicine, University Hospital of Essen

04/2008-03/10 Post-doc research associate, Geriatrics of the University Hospital, RuB

09/2004-06/08 Research assistant and PhD candidate, Research Institute of Child Nutrition,
Rheinische Friedrich-Wilhelms-Universität Bonn

Publications

1. Berkemeyer S. Primary liver cancers: Connecting the dots of cellular studies and epidemiology with metabolomics. *Int J Mol Sci*. 2023, 24,3: 2409.
2. Bartsch M, Hahn A, Berkemeyer S. Bridging the gap from enterotypes to personalized dietary recommendations: A metabolomics perspective on microbiome research. *Metabolites*. 2023, 12,12:1182.
3. Berkemeyer S. *Wissens- und Praxistransfer mit erfahrungsbasiertem Lernen durch die Förderung der willkürlichen Imagination in Lern-Lehr-Umgebungen*. In: *Innovative Lehr- und Lernkonzepte an der Hochschule Osnabrück – Einblick in ausgewählte Innovations-plus-Projekte der Förderrunden I und II*. 2023.*
4. Berkemeyer S, Wehrmann J. Sustainable behavior change (SNBC) model: How personal nutritional decisions bring about sustainable change in nutritional behavior. *Obes Pillar*. 2022, 4: 100042.
5. Berkemeyer S, Schöning J. Feeling hungry – Association of dietary patterns with food choices using scene perception. In: *International Conference on Computer-Human Interaction Research and Applications. Proceedings of the 4th International Conference on Computer-Human Interaction Research and Application – CHIRA*, SciTePress. 2020. 188-195.
6. Berkemeyer S, Kar B. Nutritional Policy responses to covid-19 in two global democracies: India and Germany. *Indian J App Res*. 2020. 10, 7: 64-66.
7. Berkemeyer S. *Videobotschaft als "Learning Nuggets"*. *Synergie – Fachmagazine für Digitalisierung in der Lehre der Universität Hamburg*. 2018.*
8. Velasco Gonzalez A, Stracke P, Nordmeyer H, Heddier M, Salema S, Sauerland C, Berkemeyer S, Buerke B, Heindel W, Chapot R. Low rates of recanalization for wide-necked aneurysms treated with stenting after balloon-assisted coiling: combination of techniques delivers stable and improved results during follow-up. *Neuroradiology*. 2018. 60,11: 1223-1230.
9. Kammerer S, Schuelke C, Berkemeyer S, Velasco A, Heindel W, Koehler M, Buerke B. The role of multislice computer tomography (MSCT) angiography in the diagnosis and therapy of non-occlusive mesenteric ischemia (NOMI): Could MSCT replace DSA in diagnosis? *PLoS One*. 2018. 13,3: e0193698
10. Faillie JL, Ferrer P, Gouverneur A, Driot D, Berkemeyer S, Vidal X, Martínez-Zapata MJ, Huerta C, Castells X, Rottenkolber M, Schmiedl S, Sabaté M, Ballarín E, Ibáñez L. A new risk of bias checklist applicable to randomized trials, observational studies, and systematic reviews was developed and validated to be used for systematic reviews focusing on drug adverse events. *J Clin Epidemiol*. 2017. 86, 168-175.

11. Berkemeyer S, Lemke, Hense HW. Incidence and mortality trends in German women with breast cancer using age, period and cohort 1999 to 2008. PLoS One. 2016. 11,3: e0150723.
12. Velasco A, Buerke B, Stracke CP, Berkemeyer S, Mosimann PJ, Schwindt W, Alcázar P, Cnyrim C, Niederstadt T, Chapot R, Heindel W. Comparison of balloon guide catheter and a non-balloon guide catheter for mechanical thrombectomy. Radiology. 2016. 280, 1: 169-176.
13. Sporns PB, Minnerup J, Warneke N, Dziewas R, Hanning U, Berkemeyer S, Zoubi T, Heindel W, Schwindt W, Niederstadt T. Impact of the implementation of thrombectomy with stent retrievers on the frequency of hemicraniectomy in patients with acute ischemic stroke. Clin Neuroradiol. 2017. 27, 2: 193-197.
14. Lemke D, Berkemeyer S, Mattauch V, Heidinger O, Pebesma E, Hense HW. Small-area spatio-temporal analyses of participation rates in the mammography screening program in the city of Dortmund (NW Germany). BMC Public Health. 2015. 15: 1190.
15. Weigel S, Hense HW, Heidrich J, Berkemeyer S, Heindel W, Heidinger O. Digital mammography screening: Does age influence the detection rates of low-, intermediate-, and high-grade ductal carcinoma in situ? Radiology. 2016. 278, 3: 707-713.
16. Timpe L, Berkemeyer S, Poesken M, Tio J, Heindel W, Weigel S. Rates of presurgical underestimation of breast cancer after standardized assessment of breast calcifications. Rofo. 2015. 187, 6: 445-449.
17. Weigel S, Berkemeyer S, Girnus R, Sommer A, Lenzen H, Heindel W. Digital mammography screening with photon-counting technique: can a high diagnostic performance be realized at low mean glandular dose? Radiology. 2014. 27, 2: 345-355.
18. Weigel S, Heindel W, Heidinger O, Berkemeyer S, Hense HW. Digital mammography screening: association between detection rate and nuclear grade of ductal carcinoma in situ. Radiology. 2014. 271, 1: 38-44.
19. Weigel S, Biesheuvel C, Berkemeyer S, Kugel H, Heindel W. Digital mammography screening: how many breast cancers are additionally detected by bilateral ultrasound examination during assessment? Eur Radiol. 2013. 23, 3: 684-691.
20. Hauth EA, Berkemeyer S, Jaeger H, Forsting M, Hoffmann B, Jöckel KH. Epidemiological follow-up 15 years after the breast cancer scandal in Essen. Geburtshilfe Frauenheilkd. 2012. 72, 6: 513-522.
21. Thiem U, Theile G, Junius-Walker U, Holt S, Thürmann P, Hinrichs T, Platen P, Diederichs C, Berger K, Hodek JM, Greiner W, Berkemeyer S, Pientka L, Trampisch HJ. Prerequisites for a new health care model for elderly people with multimorbidity: the PRISCUS research consortium. Z Gerontol Geriatr. 2011. 44, 2: 115-20.
22. Berkemeyer S. Critique on equations of net endogenous acid production (NEAP) and indirect proof of constant organic acid excretion. Am J Clin Nutr. 2010. 91, 5: 1409-10.
23. Berkemeyer S. The straight line hypothesis elaborated: case reference obesity, an argument for acidosis, oxidative stress, and disease conglomeration? Med Hypotheses. 2010. 75, 1: 59-64.
24. Berkemeyer S, Schumacher J, Thiem U, Pientka L. Bone T-scores and functional status: a cross-sectional study on German elderly. PLoS One. 2009. 4, 12: e8216.

25. Berkemeyer S. Net acid excretion capacity is related to blood hydrogen ion and serum carbon dioxide. *Metabolism*. 2010. 59, 3: 338-342.
26. Shi L, Berkemeyer S, Buyken AE, Maser-Gluth C, Remer T. Glucocorticoid and body fat associated with renal uric acid and oxalate, but not calcium excretion, in healthy children. *Metabolism*. 2010. 59, 1: 134-139.
27. Berkemeyer S. A complementary explanation on the relationship of obesity and oxidative stress via protons. *Obesity (Silver Spring)*. 2009. 17, 7: 1311.
28. Berkemeyer S. Acid-base balance and weight gain: are there crucial links via protein and organic acids in understanding obesity? *Med Hypothesis*. 2009. 73, 3: 347-33556.
29. Berkemeyer S, Vormann J, Günther AL, Rylander R, Frassetto LA, Remer T. Renal net acid excretion capacity is comparable in prepubescence, adolescence, and young adulthood but falls with aging. *J Am Geriatr Soc*. 2008. 56. 8: 1442-1448.
30. Berkemeyer S, Bhargava A, Bhargay U. Urinary phosphorus rather than urinary calcium possibly increases renal stone formation in a sample of Asian Indian, male stone-formers. *Br J Nutr*. 2007. 98, 6: 1224-1228.
31. Remer T, Berkemeyer S, Rylander R, Vormann J. Muscularity and adiposity in addition to net acid excretion as predictors of 24-h urinary pH in young adults and elderly. *Eur J Clin Nutr*. 2007. 61, 5: 605-609.
32. Rylander R, Remer T, Berkemeyer S, Vormann J. Acid-base status affects magnesium losses in healthy, elderly persons. *J Nutr*. 2006. 136, 6: 1203-1208.
33. Remer T, Fonteyn N, Alexy U, Berkemeyer S. Longitudinal examination of 24-h urinary iodine excretion in schoolchildren as a sensitive, hydration status-independent research tool for studying iodine status. *Am J Clin Nutr*. 2006. 83, 3: 6369-646.
34. Remer T, Berkemeyer S. Letter re: Persistent hypocalciuric effect of potassium bicarbonate in postmenopausal women. *J Clin Endocrinol Metab*. 2005. 90, 8: 4980-4981.
35. Gomes S. The nourishing nutritional answer to HIV/AIDS. *Pakistan Journal of Nutrition*. 2003. 2, 4: 210-220.

*Professional pedagogic research

Recent Presentations and Posters

1. Poster. Hoge K, Pappert J, Berkemeyer S. A guidelines-based concept of prehabilitation for oncology patients prior to abdominal surgery. *Conference Nutrition*. 2024
2. Poster. Bartsch M, Müller M, Berkemeyer S, Woltemate S, Vital M, Hahn A. Microbial enterotypes in personalized nutrition for improving metabolic health: A proof-of-concept study. *Conference Nutrition*. 2024
3. Presentation. Berkemeyer S. Nutritional therapy in the world. An update on nutritional therapy. *QUETHEB*. 2023
4. Poster. Bartsch M, Kerlikowsky F, Hahn A, Berkemeyer S, Vital M, Müller M. Associations between the dietary inflammatory index, the gut microbiome, and nutritional status in elderly individual. *Conference of the Federation of European Nutrition Societies*. 2023

5. Poster. Schuster V, Krieger-Güss S, Berkemeyer S. Nutritional interventions for geriatric patients with chronic ulcus cruris venosum, Conference Nutrition. 2023
6. Presentation. Berkemeyer S. Nutrition and Climate Revisited. Rotary Club, Essen.
7. Presentation. Berkemeyer S. Nutritional Security: Between Climate Change and Regionality. Klima-Frieden Osnabrück. 2022
8. Lecture. Berkemeyer S. Fasting from the perspective of the nutritional sciences. Cordoba. 2022
9. Presentation. Berkemeyer S. Nutri-Score and Nutrition. Innovate! Convention. 2022
10. Presentation. Berkemeyer S. Nutrition and covid-19: Between policies and science. 11th Hanseatic India Colloquium on Infectious Diseases. Consulate General of India Hamburg. 2021

Honors, Awards, Ambassadorship

Since 10/2023	Ambassador, Applied Universities, <i>Hochschule für Angewandte Wissenschaften, HAW</i>
2023	Nominated for Professor of the Year, Unicheck
2015	University of Utah Travel Award for HCI Conference, Huntsman Cancer Center
2012	German Academic Exchange Program Travel Award to Nutritional Science 2012, Philadelphia
2011	Full scholarship for the Program 3 rd NRW Stem Cell Network NRW at University Hospital Münster and Max Planck Institute Münster
2011-2012	Scholarship for Early Career Scientists “Mediment-Peer”, University Hospital Essen
1995-1996	Felix Scholar, University of Reading, UK
1993	Delhi University merit-based PhD Grant’s Scholarship
1991-1993	Delhi University MSc merit-based scholarship