

Curriculum Vitae

HimaBindu Dukka, BDS, MSD, MPH

Home Address: 2800 Woodside Pl
Prospect, KY 40059
M (317) 281-3316

Office Address: University of Louisville School of Dentistry
501 S. Preston St, Rm 335L
Louisville, KY 40202
Phone: (502) 852-1817
Fax: (502) 852- 1317
E-mail: himabindu.dukka@louisville.edu
hbdukka@gmail.com

Professional Licensure

Kentucky Active
Indiana Active

Certifications

Diplomate, American Board of Periodontology
Moderate Sedation
Basic Life Support
Advanced Cardiac Life Support

Education

Indiana University School of Dentistry, Indianapolis, IN Master of Science in Dentistry (MSD)	2012-2015
Indiana University School of Dentistry, Indianapolis, IN Certificate in Periodontics	2012-2015
Indiana University Richard M. Fairbanks School of Public Health Indianapolis, IN Master of Public Health (MPH) Major- Epidemiology Minor- Biostatistics	2008-2011

Rajiv Gandhi University of Health Sciences, Bangalore, India
Bachelor of Dental Surgery (BDS) 2002-2007

Mahaveer Jain College, Bangalore, India
Pre-University Education; Major- Biology 1999-2001

Academic and Administrative Appointments

Director- Advanced Education in Periodontics
University of Louisville School of Dentistry 2021-Present

Division Head- Periodontics
University of Louisville School of Dentistry 2021-Present

Associate Professor (Tenured)
Department of Diagnosis and Oral Health
University of Louisville School of Dentistry 2021-Present

Adjunct Faculty
Department of Oral Immunology and Infectious Diseases
University of Louisville School of Dentistry 2021-Present

Assistant Professor (Term)
Department of Oral Health and Rehabilitation- Periodontics Division
University of Louisville School of Dentistry 2016-2021

Clinical Instructor
Indiana University School of Dentistry 2012-2015

Private Practice

University of Louisville Dental Associates 2016-Present

Research and Scholarly Activity

I) Funded Research

1) U01 Grant: “An Oral Health Promotion Strategy for Adults with
Intellectual & Developmental Disability.” 2020-Present
Funding Agency: NIDCR (\$3,666,210)
Role: Co-Principal Investigator

- 2) “Cost comparison of prediction-based retention of periodontally affected molars versus extraction and replacement with implant supported restorative treatment.” 2021
 Funding Agency: UofL Faculty Research Grant (\$4000)
 Role: Principal Investigator
- 3) R01 Grant: Type III Interferons and oral mucosal anti-viral immunity 2022
 Funding agency: NIDCR (\$ 2,500,000; Approved)
 Role: Co-Investigator
- 4) R01 Grant: Marijuana-induced dysbiosis in experimental gingivitis 2022
 Funding Agency: NIDCR (Submitted)
 Role- Co-investigator
- 5) R01 Oral Dysbiosis and Checkpoint Inhibition in Non-small cell lung carcinoma 2022
 Funding Agency: NIH (Submitted)
 Role- Co-investigator

II) Peer Reviewed Original Papers

Google scholar: https://scholar.google.com/citations?user=SB_FT-4AAAAJ&hl=en

- 1) **Dukka H**, Saleh MHA, Ravidà A, Greenwell H, Wang HL. [Is bleeding on probing a reliable clinical indicator of peri-implant diseases?](#). J Periodontol.2021 Apr 8;. doi: 10.1002/JPER.200890. [Epub ahead of print] PubMed PMID: 33829501.
- 2) **Dukka H**, Byrd P, Qian C, Baughman G, Butt S, Rai SN. [Occupational percutaneous injuries and exposures in a dental teaching environment: A 10-year report](#). J Dent Educ. 2021 Jun 27. doi: 10.1002/jdd.12731. Epub ahead of print. PMID: 34180052.
- 3) **Dukka, H**; Dietrich, T; Saleh, MHA, et al. [The prognostic performance of the 2017 World Workshop Classification on staging and grading of periodontitis compared to the British Society of Periodontology's implementation](#). J Periodontol. 2021; 1- 11.
- 4) **Dukka H**, Chien C. Immediate Implant Placement With Immediately Loaded Mandibular Full Arch Fixed Prosthesis Using Digital Workflow and Fully-Guided Surgery. Decisions in Dentistry, March 2021;7(3);16–18:21–22.
<https://decisionsindentistry.com/article/digitalworkflow-and-fully-guided-surgery-for-immediate-implants/>
- 5) **Dukka H**, Gossweiler, M, Kishimoto, T, Blanchard, S. Periodontally Accelerated Osteogenic

Orthodontics(PAOO) Using Platelet Rich Fibrin(PRF) Alone: A Modified Approach with a 3Year Follow-Up. Clin Adv Periodontics; 2018: 8(4): 177-81.
<https://doi.org/10.1002/cap.10038>

- 6) **Dukka H**, Blanchard, S, John, V, Gossweiler, M. A [Novel Combination Approach to Ridge Augmentation Procedure in a Severely Infected Alveolus Prior to Implant Supported Restorative Treatment: A Case Report](#). J Implant Adv Clin Dent; 2017: Vol 9; (1): 6-15.
- 7) **Dukka H**. Management of Gingival Overgrowth Associated with Orthodontic Therapy. Dent Oral Biol; 2018: 3(3): 1132.
- 8) Siu TL, **Dukka H**, Saleh MHA, Tattan M, Dib Z, Ravidà A, Greenwell H, Wang HL, Araujo MG. [Flap versus flapless alveolar ridge preservation: A clinical and histological single-blinded, randomized controlled trial](#). J Periodontol. 2022 Aug 4. doi: 10.1002/JPER.22-0213. Epub ahead of print. PMID: 35924603
- 9) Scott DA, **Dukka H**, Saxena D. [Potential Mechanisms Underlying Marijuana-Associated Periodontal Tissue Destruction](#). J Dent Res. 2022 Feb;101(2):133-142. doi:10.1177/00220345211036072. Epub 2021 Sep 13. PMID: 34515556.
- 10) Saleh MHA, **Dukka H**, Troiano G, Ravidà A, Qazi M, Wang HL, Greenwell H. [Long term comparison of the prognostic performance of PerioRisk, periodontal risk assessment, periodontal risk calculator, and staging and grading systems](#). J Periodontol. 2021 Apr 29;. doi: 10.1002/JPER.20-0662. [Epub ahead of print] PubMed PMID: 33914347.
- 11) Saleh, MHA, **Dukka H**, Troiano, G, Ravidà, A, Galli, M, Qazi, M, Greenwell, H, & Wang, HL. (2021). [External validation and comparison of the predictive performance of 10 different tooth-level prognostic systems](#). *Journal of Clinical Periodontology*, 48(11), 1421– 1429.
- 12) Saleh MHA, Tattan M, Troiano G, **Dukka H**, Ravidà A, Levine R, Wang HL, Miller PD. [The periodontal risk score \(PRS\): initiation and model validation for 6762 teeth](#). J Periodontol. 2022 Sep 19. doi: 10.1002/JPER.22-0273. <https://doi.org/10.1002/JPER.22-0273>
- 13) Saleh MHA, Couso-Queiruga E, Ravidà A, **Dukka H**, Paiva De Andrade N, Ou A, Wang HL. [Impact of the periodontal phenotype in premolar and molar sites on bone loss following full thickness mucoperiosteal flap: A 1-year prospective clinical trial](#). J Periodontol. 2022 Feb 8. doi: 10.1002/JPER.21-0591. Epub ahead of print. PMID: 35137413.
- 14) Rodriguez-Hernandez CJ, Sokoloski KJ, Stocke KS, **Dukka H**, Jin S, Metzler MA, Zaitsev K, Shpak B, Shen D, Miller DP, Artyomov MN. [Microbiome-mediated incapacitation of interferon lambda production in the oral mucosa](#). PNAS. 2021. 118 (51) e2105170118
- 15) Saleh MHA, Couso-Queiruga E, Ravidà A, **Dukka H**, Paiva De Andrade N, Ou A, Wang HL. [Impact of the periodontal phenotype in premolar and molar sites on bone loss following](#)

[full thickness mucoperiosteal flap: A 1-year prospective clinical trial.](#) J Periodontol. 2022 Feb 8. doi: 10.1002/JPER.21-0591. Epub ahead of print. PMID: 35137413.

- 16) Rodriguez MV, Ravidà A, Saleh MHA, Basma HS, **Dukka H**, Khurshid H, Wang HL, Moreno PG. [Is the degree of physiological bone remodeling a predictive factor for periimplantitis?](#) J Periodontol. 2022 May 10. doi: 10.1002/JPER.21-0723. Epub ahead of print. PMID: 35536150.
- 17) Levine RA, Miller PD, Dias D, Saleh MHA, Dharmarajan G, Fernandes G, **Dukka H**, Ehrmann, Fava PL, Araujo MG. [Translating clinical outcomes to patient value through use of the Periodontal Risk Score: An evidence based treatment approach.](#) Compend Contin Educ. 2023 January 44 (1).

III) Peer Reviewed Abstracts and Posters

1. Alhachache S, Shah B, Cheng I, Sekula M, **Dukka H**. Analysis of risk factors for early crestal peri-implant bone loss in unrestored implants. Academy of Osseointegration, 2023.
2. Saleh M, Imbrogno M, Ravidà A, **Dukka H**, Seth A, Rai S, Wang HL. Cost comparison of prediction-based retention of periodontally affected molars versus extraction and replacement with implant supported restorative treatment. American Academy of Periodontology, 108th Annual Meeting, 2022.
3. **Dukka H**, Saleh M, Ravidà A, Greenwell H, Wang HL. Is bleeding on probing a reliable clinical indicator? The 14th International Symposium on Periodontal & Restorative Dentistry, 2022.
4. Saleh M, Couso-Queiruga E, Ravidà A, **Dukka H**, Anderade N, Ou A, Wang HL. Impact of the periodontal phenotype in premolar and molar sites on bone loss following full thickness mucoperiosteal flap. A 1-year prospective clinical trial. The 14th International Symposium on Periodontal & Restorative Dentistry, 2022.
5. Baughman G, Byrd P, Shesh R, Chen Q, **Dukka H**. Percutaneous Injuries in a Dental Educational Institution: A Ten-Year Report. International Association for Dental Research (IADR) 99th Annual Meeting, 2021.
6. Godwin C, Abadi M, Knowlton J, Bradley T, **Dukka H**. An Oral Health Promotion Strategy for Adults with Intellectual & Developmental Disability. International Association for Dental Research (IADR) 99th Annual Meeting, 2021.
7. Saleh M, **Dukka H**, Ravidà A, Wang HL, Greenwell H. Validation and Comparison of the Predictive Performance of Ten Different Tooth-Level Prognostic Systems. American Academy of Periodontology: Orban Competition. 107th Annual Meeting, 2021.

8. Rodriguez-Hernandez CJ, Sokoloski KJ, **Dukka H**, Jin S, Lamont RJ, Bagaitkar J. Paving the Road: *Porphyromonas gingivalis* abolishes antiviral immunity in the oral epithelium KY-TN American Society for Microbiology Annual Meeting, 2021.
9. DeWeese E, Lai P, **Dukka H**, Greenwell H, Lusby J. Comparative evaluation of acellular dermal matrix of different thickness in periodontal root coverage procedures. American Academy of Periodontology 105th Annual Meeting, 2019, Chicago, IL.
10. **Dukka H**, Reiter J, Prakasam S. Peptidoglycan Recognition Proteins in Pathogenesis of Pre-Eclampsia and Periodontal Disease. International Association for Dental Research (IADR) 97th Annual Meeting, 2019, Vancouver, BC, Canada.
11. **Dukka H**, Gossweiler M, Kishimoto T, Blanchard S. Periodontally Accelerated Osteogenic Orthodontics (PAOO) Using Platelet Rich Fibrin(PRF) Alone: A Modified Approach with a 3Year Follow-Up. American Academy of Periodontology 104th Annual Meeting, 2018, Vancouver, BC, Canada.
12. Alkanan A, Greenwell H, Hill M, Shumway BS, **Dukka H**, Lowy J. Ridge Preservation Using a Facial Overlay Contour Graft With and Without a Barrier Membrane. Academy of Osseointegration 2018 Annual Meeting, March 1-3, Los Angeles CA.
13. **Dukka H**, Reiter J, Prakasam S. Role of Peptidoglycan Recognition Protein in the Pathogenesis of Periodontal Disease and Pre-Eclampsia. American Academy of Periodontology 101th Annual Meeting, 2015, Orlando, FL.
14. **Dukka H**, Blanchard S, John V, Gossweiler, M. Effects of PRF on Bone Regeneration and Soft Tissue Healing in Ridge Augmentation. Indiana University Research Day. Poster Presentation. April 2014, Indianapolis, Indiana.
15. **Dukka H**, Blanchard S, John, V, Reiter, J. Role of Peptidoglycan Recognition Protein in the Pathogenesis of Periodontal Disease and Per-Eclampsia. Indiana University Research Day. Poster Presentation. April, 2015, Indianapolis, IN.
16. **Dukka H**, Blanchard S, John, V, Gossweiler M. Effects of PRF on Bone Regeneration and Soft Tissue Healing in Ridge Augmentation. Indiana Clinical and Translational Sciences Institute. Poster Presentation. September 2014, Indianapolis, Indiana.
17. **Dukka, H**. Epidemiology of Tuberculosis. Indiana Joint National Public Health Conference. Poster Presentation. April 2011, Indianapolis, IN.
18. **Dukka H**, Zollinger T, Steele G. Epidemiology of Tuberculosis. Indiana Rural Health Association's 13th Annual Rural Health Conference. Poster Presentation. June 2010, Indianapolis, IN.

IV) Peer Reviewed Abstracts and Oral Presentations

- 1) **Dukka H**, Prakasam, S, Reiter J. Role of Peptidoglycan Recognition Protein in the Pathogenesis of Periodontal Disease and Pre-Eclampsia. **Volpe Prize Finalist**, 2015, The Ohio State University. Columbus, OH.
- 2) **Dukka, H**, Reiter J, Prakasam S . Periodontal Disease and Peptidoglycan Recognition Proteins. **Honorable Mention**, Graduate Student Research Forum, 2015, 58th Midwest Society of Periodontology Annual Meeting. Chicago, IL.

V) M.S. Graduate Student Research Committee

- 1) Fleming, Katelyn. Root coverage with and without Emdogain. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, to be submitted June 2023. (PI)
- 2) Imbrogno, M. Effect of implant restoration angle and contour on crestal bone levels. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, to be submitted June 2023. (PI)
- 3) Ritchey, D. Clinical and histologic healing of two different putty allografts. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, to be submitted June 2023. (PI)
- 4) Shah, Bansari. Risk Factors for Early Implant Crestal Bone Loss. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2022. (PI)
- 5) Parikh, Adam. Effect of Peri-implantitis On Adjacent Natural Teeth. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2022. (PI)
- 6) Butt, Sharjeel. Risk Factors for Peri-implantitis. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2022. (Co-PI)
- 7) Niyogi, Guha. The Clinical Effect of simultaneous grafting with Implant placement comparing soft tissue grafting alone to combined hard and soft tissue grafting. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2019. (Member)

8) DeWeese, Elliott. Comparative evaluation of acellular dermal matrix of different thickness in periodontal root coverage procedures. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2018. (Member)

9) Lowy, Jeremy. The Effect of Platform-Matching versus Platform-Switching Using Standard Internal Versus Tapered Internal Plus Dental Implants on Peri-implant Hard and Soft Tissue Healing. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2017. (Member)

10) Mendoza, Juan. Root Coverage With Acellular Dermal Matrix Using the Coronally Positioned Tunnel Technique Comparing Two Different Donor Materials. A thesis submitted to the faculty of the Graduate School, University of Louisville School of Dentistry, in partial fulfillment of the requirements for the Degree of Master of Science, August 2017. (Member)

Teaching

Graduate Program

Classic Literature Review Seminar, Course Director, 4 didactic credit hours per semester, University of Louisville, 2021 to present

Current Literature Review Seminar, Course Director, 3 didactic credit hours, University of Louisville per semester, 2021 to present.

Implant Literature Review Seminar, Course Director, 1 didactic credit hours, University of Louisville per semester, 2021 to present.

Clinical Case Presentation Seminar, Course Director, 2 didactic credit hours, University of Louisville, 2021 to present.

Graduate Occlusion Seminar, Course Director, 2 didactic credit hours, University of Louisville, 2021 to present.

Graduate Periodontal-Prosthodontic Seminar, Course Director, 1 didactic credit hour, University of Louisville, 2021 to present.

Graduate Periodontal-Orthodontic Seminar, Course Director, 1 didactic credit hours, University of Louisville, 2021 to present.

Graduate Periodontal Histopathology Seminar, Course Director, 1 didactic credit hours, University of Louisville, 2021 to present.

Fundamentals of Clinical Periodontics, Course Director, 1 didactic credit hour, University of Louisville, 2021 to present.

Fundamentals of Periodontics, Course Director, 2 didactic credit hours, University of Louisville, 2021 to present.

Clinical Graduate Periodontics, Course Director, University of Louisville, 2021 to present.

Fundamentals of Graduate Clinic, Course Director, 1 didactic credit hour, University of Louisville, 2021 to present.

Graduate IV Sedation Seminar, Course Director, 1 didactic credit hour, University of Louisville, 2021 to present.

Undergraduate Program

Periodontics III, Course Director, 1 didactic credit hour, University of Louisville, 2016 to 2021.

Graduate Implantology Seminar, Lecturer, 1 didactic credit hour, University of Louisville, 2019 to present.

Smile Design, Lecturer, 1 didactic credit hour, University of Louisville, 2016 to 2021.

Conference Presentations/Blog Posts (Non-Peer Reviewed)

1) **Dukka H.** Co-Chair of Oral Presentation Session IADR, June 2019, Vancouver, BC, Canada.

2) **Dukka H.** Co-Chair of Oral Presentation Session IADR, July 2018. London, England.

Reviewer/Editorial Board (EB)

1) Journal of Periodontology	2016-Present
2) Clinical Implant Dentistry and Related Research	2022-Present
3) Environmental Health Insights	2022-Present
4) International Journal of Clinical Oral and Maxillofacial Surgery (EB)	2018-Present
5) E-Cronicon Dental Science (EB)	2018-Present
6) American Dental Education Association (ADEA) Annual Session and Exhibition (Abstract Reviewer)	2018, 2019

Research Judge

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| 1) American Academy of Periodontology Balint Orban Memorial Competition | 2019-Present |
| 2) American Academy of Periodontology Research Forum Poster Session and Finalist Competition | 2019-Present |
| 3) American Academy of Periodontology Research Forum Poster Session- Clinical Impact Award | 2019-Present |
| 4) Poster Session- Research Day, University of Louisville | 2018, 2019 |

Professional Service**A) National Committees**

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| 1) American Academy of Periodontology In-Service Examination Committee | 2019-Present |
| 2) American Academy of Periodontology Research Submissions Committee | 2018- Present |

B) Local Committees

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|---|---------------------|
| 1) UofL Institutional Review Board Member | December 2022 |
| 2) Vice-President: International Association for Dental Research- Louisville Section | January 2021 |
| 3) UofL NIH Cobre Center Grant- Committee Member | August 2021 |
| 4) Search Committee- Chair (Biostatistician) | April 2021 |
| 5) Faculty Assembly- President | June 2020-June 2022 |
| 6) Dental Leadership Council | June 2020-June 2022 |
| 4) DMD Curriculum Committee | June 2020-June 2022 |
| 5) Research Committee | June 2020-Present |
| 6) UofL Health Physician Engagement Committee | Aug 2020-Present |
| 7) ULSD Employee Engagement Committee | Aug 2020- Present |
| 8) Treatment Planning and Patient Onboarding Committee | April- June 2019 |
| 9) Integrated National Dental Board Exercise for Integrated Clinical Sciences | Jan 2017-2019 |
| 10) Behavioral Science, Ethics, Critical Thinking, Culturally and Linguistically Appropriate Care and Infection Control- Curriculum Committee | April-Aug 2017 |
| 11) Graduate Periodontics Admissions Committee | Aug 2016-Present |
| 12) Search Committee (Oral Pathology Open Rank Faculty) | August 2022-Present |

13) Search Committee (Dean of Clinical Affairs)	August 2022-Present
14) Search Committee (Graduate Prosthodontics Program Director)	Oct 2018-2022
15) Search Committee (Prosthodontics Faculty)	Oct 2018-2022
16) Search Committee (Radiology Faculty)	Oct 2020-Feb 2021
17) Search Committee (Director- Human Resources)	Sept-Dec2019
18) Dean's Strategic Planning Committee- Research & Scholarship	Aug-Dec 2016
19) Representative- Indiana University Graduate Student Professional Conduct Committee	Jan- July 2015
20) Board Member of MPH Student Government- Indiana University	Jan 2009-Aug 2011
21) Graduate & Professional Student Government Representative Indiana University	Jan 2009-Aug 2011

Continuing Education- Speaker/Presenter

1) Spanish Society of Periodontology & Osseointegration	2023
2) Association for Continuing Dental Education (1.5 HR CE)	2022
3) UofL - Esthetic Concepts in Implantology (1 HR CE)	2020
4) Southern Indiana Dental Association Meeting, New Albany, IN (3HR CE)	2018
5) UofL - Updates in Periodontal Medicine (3 HR CE)	2018

Leadership and Professional Development Activities

1) American Academy of Periodontology LEAD Program	2022
2) National Osteology Group (NOG) Leadership Team in USA	2023
3) University of Louisville Faculty Feed Podcast https://anchor.fm/hscfacdev/episodes/Dr--Bindu-Dukka-Shares-Her-Leadership-Journey-e1n7pu8	2022
4) Blog Post on UofL Faculty Feed: Employee Recognition https://louisville.edu/hsc/faculty-development/facultyfeed/recognition-doing-it-the-right-way	2020
5) University of Louisville's Leadership & Innovation in Academics Matter (LIAM)	2019
6) American Academy of Periodontology Foundation Fellow: ADEA/AAL Institute for Teaching & Learning in Health Professions	2018
7) UofL Dean's Excellence in Leadership Course	2018

Awards & Honors

1) American Academy of Periodontology Foundation Nevins Fellowship	2022
2) American Academy of Periodontology Straumann Scholarship	2017
3) Volpe Prize Competition-Finalist	2015
4) Innovation in Oral Care Research Award- Finalist	2015
5) Midwest Society of Periodontology-Graduate Student Research Forum Competition- Finalist (Honorable Mention)	2015
6) Delta Dental Master's Thesis Award/Grant (\$3000)	2014
7) Indiana Dental Association- "Best Clinical Case Report Award"	2014

Professional Affiliations

- 1) American Dental Association
- 2) American Academy of Periodontology
- 3) American Board of Periodontology
- 4) American Dental Education Association
- 5) American Association for Dental Research
- 6) International Association for Dental Research
- 7) International Team for Implantology (ITI)
- 8) American Association for Women Dentists
- 9) Kentucky Dental Association
- 10) Louisville Dental Society