

Amurdhavani Balakrishnan Sivaprakash, BDS, MPH

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PROFILE

As a dedicated professional, I am committed to pursuing a career as a Health Data Analyst. My deep-rooted interest in healthcare data analysis and research is driven by a passion for transforming complex healthcare datasets into actionable insights, particularly in the realm of emergency care. Equipped with expertise in statistical tools, and a strong background in predictive modelling and policy recommendation, my goal is to leverage these skills to make a meaningful impact in the healthcare sector, continually striving to enhance healthcare practices and outcomes through data-driven analysis.

EDUCATION & QUALIFICATIONS

2022 – 2023 Master of Public Health (Data Science Specialisation)

University of Glasgow

Includes principles of Public Health, Research Methods, Biostatistics, Epidemiology, Data Science, and Dissertation project in analysing "Socioeconomic and other inequalities in unscheduled care in Glasgow".

2020 Bachelor of Dental Surgery (BDS)

Saveetha Dental College & Hospital, India

KEY SKILLS

- R programming language
- SQL
- Power BI
- Microsoft Office
- Tableau
- Data Collection and Analysis
- Epidemiological Techniques
- Medical Statistics
- Research methodologies
- Health Information Systems Management

ACHIEVEMENTS

- Presented research work in International Association for Dental Research (IADR) held in California, USA (2017)
- Published 10 articles in indexed journals including 5 qualitative research articles
- Received a Distinction (aggregate of 80.3%) in postgraduate degree
- Participated in Guinness World Record on maximum screening of population for dental health within specific duration (2014)
- Safely carried out 1945 procedures in 501 patients including restorative and surgical procedures

CAREER HISTORY

April 2023 – Present

Assistant health data analyst, University of Glasgow, Glasgow

- **Quantitative Data Analysis Expertise:** Led the evaluation of large NHS datasets with 400,000 emergency visits using R and Excel, focusing on healthcare disparities, showcasing a strong competency in data analytics and management.
- **Advanced Compliance Proficiency:** Completed in-depth ICH-GCP, GDPR, and data protection training, expertly managing sensitive patient data and upholding stringent information governance protocols.
- **Research Foundation and Application:** Performed thorough literature reviews, acquiring in-depth research methods knowledge, critical for effective study design and implementation.
- **Statistical Analysis and Visualization:** Utilized sophisticated regression techniques logistic regression, Kaplan-Meier survival analysis and Cox regression for insightful data interpretation, creating visual reports using Power BI that articulate complex statistical data with precision.
- **Communication and Presentation Skills:** Excelled in formulating and presenting detailed research findings, translating complex methodologies and data into accessible information for varied audiences.
- **Documentation and Quality Assurance:** Rigorously recorded research procedures and findings, strictly following ICH-GCP guidelines to ensure the utmost in research integrity and documentation quality.
- **Ethics and Protocol Adherence in Research:** Gained deep insights into research ethics and protocols, applying this rigorously to all aspects of the research process, from inception to conclusion.

- **Prescription Dispensing and Data Management:** Efficiently dispensed 250 online prescriptions daily with precision, demonstrating superior data management and analytical skills for accurate patient care.
- **Inventory Management and ICH-GCP Adherence:** Managed pharmacy stock levels and quality control, ensuring compliance with ICH-GCP guidelines. Utilized NHS system knowledge for clinical trial medication handling.
- **Staff Training and Research Expertise:** Conducted training for new staff, emphasizing team collaboration and communication. Applied expertise in clinical research methodology and data collection in pharmacy-related research projects.
- **Patient Data Protection and GDPR Compliance:** Maintained strict confidentiality of patient data, adhering to GDPR and Data Protection Act standards, showcasing proficiency in data governance and sensitive information management.
- **Regulatory Compliance and Documentation Accuracy:** Ensured compliant medication dispensing and maintained meticulous documentation, aligning with healthcare standards and demonstrating thorough operational data understanding.

- **Patient Education and Engagement:** Delivered comprehensive health education and diet counseling, including anti-tobacco advice, and conducted regular follow-ups, demonstrating exceptional patient care and communication.
- **Clinical Research and Analysis:** Contributed to dental health research on antibiotic resistance, applying skills in data collection, analysis, and outcome assessment to enhance healthcare data evaluation.
- **Public Health and Organizational Involvement:** Organized dental health camps offering free treatments and managed health education materials, reflecting strong organizational skills and dedication to community health.
- **Digital Documentation and Data Confidentiality:** Skilled in digital record-keeping and clinical documentation, adhering to GDPR and Data Protection Act standards for secure patient information management.
- **Clinical Proficiency and Quality Control:** Performed over 1500 diverse dental procedures, upholding high standards of patient care and clinical excellence, and actively participated in quality control and ethical healthcare practices.

PUBLICATIONS & RESEARCH

1. **Awareness of tooth shade selection principles among dental students (Qualitative),** Amurdhavani.B.S, Drug Invention Today, Volume 14, Issue 4, April 2020, Pages: 544-546
2. **Failures in fixed partial denture (Qualitative),** Amurdhavani.B.S, Drug Invention Today, Volume 13, Issue 3, March 2020, Pages: 473-475
3. **Curved canal - Mishap and management - A Review,** Amurdhavani. B.S, International Journal of Current Advanced Research, Volume 6, Issue 4, April 2017, Pages: 3150-3152.
4. **Detection of Vancomycin resistance among Enterococcus faecalis isolated from dental caries population,** Amurdhavani. B.S, International Journal of Current Advanced Research, Volume 6, Issue 4, April 2017, Pages: 3156-3157.
5. **Awareness of dosage and complications of local anaesthesia among dental practitioners - A survey (Qualitative),** Amurdhavani. B.S, International Journal of Current Advanced Research, Volume 6, Issue 4, April 2017, Pages: 3153-3155
6. **Awareness of blood donation among female college students - A survey (Qualitative),** Amurdhavani.B.S, Journal of Pharmaceutical Sciences and Research, Volume 8, Issue 8, August 2016, Pages: 764-766.
7. **A review on MBT systems in Orthodontics,** Amurdhavani.B.S, Research Journal of Pharmacy and Technology, Volume 9, Issue 9, September 2016, Pages: 1529-1532.
8. **Mandibular fracture - Etiology, Site, and Common treatment modality - A pilot study,** Amurdhavani.B.S, International Journal of Pharmaceutical Sciences Review and Research, Volume 33, Issue 1, July-August 2015; Article No. 55, Pages: 294-297.
9. **Benefits of Green Tea in Dentistry - A Review,** Amurdhavani.B.S, Research Journal of pharmacology and Technology, Volume 8, Issue 6, June 2015, Pages: 772-774.
10. **Alopecia in adolescents - A survey (Qualitative),** Amurdhavani.B.S, Research Journal of Pharmacy and Technology, Volume 8, Issue 7, July 2015, Page: 915-918.

COURSES / CONTINUING DENTAL EDUCATION (CDE)

2023	Information Governance Training (Research, GDPR) <i>Medical Research council, Glasgow</i>
2023	ICH- Good Clinical Practice <i>The Global Health Network</i>