

Muhammad F Walji, Curriculum Vitae

Muhammad F Walji, MS PhD

Professor and Chair, Department of Clinical and Health Informatics
UTHealth Houston McWilliams School of Biomedical Informatics

Endowed Chair in Dental Informatics
Director, Texas Center for Oral Healthcare Quality and Safety
UTHealth Houston School of Dentistry
(713) 486-4275 (Tel)

Citizenship: USA

Undergraduate:

1997 - 2001 B.S., Biology, School of Natural Sciences and Mathematics
University of Texas, Dallas

Graduate Education:

2001 - 2002 M.S., Health Informatics, School of Health Information
Sciences, **University of Texas, Houston**

2003 - 2006 PhD., Health Informatics, School of Health Information
Sciences, **University of Texas, Houston**

Academic Appointments:

2007 - 2011 Assistant Professor (tenure track), Department of Diagnostic
Sciences
University of Texas School of Dentistry at Houston

2007 - 2012 Adjunct Assistant Professor
**University of Texas School of Biomedical Informatics at
Houston**

2011 - 2015 Associate Professor (with tenure), Department of Diagnostic
Sciences
University of Texas School of Dentistry at Houston

2012 - 2022 Associate Director, National Center for Cognitive Informatics
and Decision Making
University of Texas Health Science Center at Houston

2012 - 2017 Adjunct Associate Professor
**University of Texas School of Biomedical Informatics at
Houston**

Muhammad F Walji, Curriculum Vitae

- 2017 - 2023 Adjunct Professor
University of Texas School of Biomedical Informatics at Houston
- 2012 - 2023 Director of Informatics, Office of Technology Services and Informatics
University of Texas School of Dentistry at Houston
- 2013 - 2023 Associate Dean, Office of Technology Services and Informatics
University of Texas School of Dentistry at Houston
- 2015 - Present Professor (with tenure), Department of Diagnostic and Biomedical Sciences
University of Texas School of Dentistry at Houston
- 2019 - Present Director, Texas Center for Oral Healthcare Quality and Safety. **University of Texas School of Dentistry at Houston**
- 2021 - Present Endowed Chair in Dental Informatics. **University of Texas School of Dentistry at Houston**
- 2023 - Present Chair, Department of Clinical and Health Informatics.
UTHealth Houston, McWilliams School of Biomedical Informatics

Professional Organizations:

American Medical Informatics Association (2002-Present)

Health Information Management Systems Society (2004-Present)

Health Information Management Systems Society – South Central Texas Chapter

- **Member (2004-2014)**
- **Membership Liaison (2004-2005)**
- **Vice President (2005-2006)**
- **President (2006-2007)**
- **Past President (2007-2008)**
- **Academic Liaison (2008-2010)**
- **President-Elect (2010-2011)**
- **President (2011-2012)**
- **Past President (2012-2013)**
- **Academic Liaison (2013-2014)**

Muhammad F Walji, Curriculum Vitae

American Dental Education Association (2007-Present)

- **Secretary**, Dental Informatics Section (2007)
- **Chair-Elect**, Dental Informatics Section (2008-2009)
- **Chair**, Dental Informatics Section (2009-2010)
- **Councilor**, Dental Informatics Section (2010-2013)
- **Liaison**, Commission on Change and Innovation (2007-2014)
- **Steering Committee Member**, Commission on Change and Innovation (2016-2020)

Consortium of Oral Health Related Informatics (2007-Present)

- **Data Integration Chair** (2007-Present)
- **Website Committee Chair** (2008-2009)
- **Website Committee Member** (2009-2010)
- **Diagnostic Codes Workgroup Member** (2009-2010)
- **Board of Directors** (2010-Present)
- **Chair, Research Committee** (2011-2013)
- **Secretary, Board of Directors** (2013-2014)
- **Chair Elect, Board of Directors** (2014-2015)
- **Chair, Board of Directors** (2015-2016)
- **Past Chair, Board of Directors** (2016-2018)

School of Biomedical Informatics – Alumni Association

- **President** (2013-2016)

ADEA Leadership Institute – Alumni Organization (2014-Present)

Honors and Awards:

- 2019 UTHealth School of Biomedical Informatics Distinguished Alum Award
- 2016 Presidential Early Career Award for Scientists and Engineers (PECASE)
- 2013 ADEA Leadership Institute Fellow (2013-2014)
- 2012 University of Texas System Regent's Outstanding Teaching Award
- 2010 Nomination by the Mu Mu Chapter of OKU Honor Society for the Craig Teaching Award
- 2010 Renewal - National Institutes of Health (NIH) Clinical Loan Repayment Award (2010-2012)
- 2008 Young Investigators Recognition Award. Univ. of Texas Houston.
- 2008 National Institutes of Health (NIH) Clinical Loan Repayment Award (2008-2010)
- 2006 Renewal - National Library of Medicine (NLM) Training Grant.
- 2006 Scholarship Recipient. 2006 UT Health Science Center Golf Tournament Scholarship.
- 2005 HIMSS Foundation PhD Scholarship Recipient. 2005-2006.

Muhammad F Walji, Curriculum Vitae

- 2005 Third Place Winner, 11th Annual Research Day. Faculty Symposium / Student and Postdoc Poster Session. Univ. of Texas Houston Research Day 2005.
- 2005 Scholarship Recipient. 2005 UT Health Science Center Golf Tournament Scholarship.
- 2005 Renewal - National Library of Medicine (NLM) Training Grant.
- 2004 Second Place, The Graduate and Postgraduate Research Forum. Excellence in Biomedical Research. Student Poster Contest. Univ of Texas Houston Research Day 2004
- 2004 Bronze Award, Best Scientific Paper, MedInfo 2004
- 2004 Recipient National Library of Medicine (NLM) Training Grant.
- 2003 Third Place, The Graduate and Postgraduate Research Forum. Excellence in Biomedical Research. Student Poster Contest. Univ of Texas Houston Research Day 2003

Reviewer:

Journal Reviewer (Ad-Hoc)

- 2010 - Present Journal of Biomedical Informatics
- 2008 - Present Journal of the American Dental Association
- 2007- Present Journal of the American Medical Informatics Association
- 2007 Research in Social and Administrative Pharmacy
- 2007- Present Journal of Dental Education
- 2007 European Journal of Information Systems (EJIS) special issue on "Healthcare Information Systems Research, Revelations and Visions"
- 2005 Reviewer for Journal of Biomedical Informatics Special Issue: Human-Centered Computing in Health Information Systems
- 2016 – Present Applied Clinical Informatics
- 2020 – Present BMC Oral Health
- 2020 – Present JDR-CTR
- 2022 – Present Journal of Periodontology

Conference Reviewer

- 2012 Texas HIMSS Regional Conference Planning Committee
- 2009 Reviewer for AMIA Clinical Research Informatics Summit 2010
- 2005 - 2006 Reviewer for American Medical Informatics Association Annual Conference
- 2004 - Present Reviewer for Medinfo
- 2004 - Present Reviewer for Cognitive Science Society Annual Meeting

Grant Reviewer (Ad-hoc):

September 2023

Muhammad F Walji, Curriculum Vitae

2022	NIH-DOD-VA Pain Management Collaboratory
2022	NIH/CSR Clinical Informatics and Digital Health (CIDH)
2021	NIDCR Special Emphasis Panel ZDE1 JK (07)
2020	NIH ZAT1 AJT(18) PRISM review meeting
2016	2016/10 DSR 1 NIDCR Special Grants Review Committee
2015	NIDCR NIH NIDCR ZDE1 CF (03) – Grant Review Panel – Ad hoc reviewer
2014	NIDCR 2015/01 ZDE1 SM (17) Grant Review Panel – Ad Hoc reviewer
2013	NIDCR 2014/01 ZDE1 VH (22) 1 Grant Review Panel – Ad Hoc reviewer
2011- Present	AHRQ HITR Study Section Ad hoc reviewer
2011	National Science Foundation Grant Reviewer (SHB Panel P111780)
2010	AHRQ Special Emphasis Panel Reviewer for ZHS1 HSR-W (01) 1
2009	RC1: Challenge Grant Stage 1 Reviewer for ZRG1 SBIB-V (58) R
2008	National Center on Minority Health and Health Disparities, NIH, Special Emphasis Panel

Committees

University of Texas Health Science Center at Houston Committees:

2022	McGovern Medical School Dean Search
2014 – Present	UTHealth Selection Committee for nominees to UT Academy of Health Science Education (UTAHSE) Membership Committee
2013, 2014, 2016	Regent Outstanding Teaching Awards – Nominations Committee
2007 – 2007	SACS Accreditation Software Team
2007 – 2019	Learning and Technology Advisory Team
2006 - 2006	Safety Area Liaison
2003 - 2005	Student Intercouncil Representative, UT Houston

University of Texas Health Science Center at Houston School Committees

University of Texas School of Dentistry at Houston

2022 – Present	Research Committee –(Ad-hoc member)
2020 – 2022	Search committee – Assoc Dean for Research (Chair)
2015	Search committee – Associate Dean for Patient Care (Chair)
2013 – 2023	EHR Change Control Committee (Chair)
2013 – 2023	EHR Committee (Chair)
2012 – 2019	Technology Committee (Member)
2010 – 2012	Technology Committee (Chair)
2010 – 2011	Technology Action Committee (Co-Chair)
2009 – 2010	Dental Branch Website Re-design Committee (Member)

September 2023

Muhammad F Walji, Curriculum Vitae

2008 – 2015	Outcomes Assessment Committee (Vice-Chair)
2008 – 2010	Technology Task Force (Co-Chair)
2008 – 2011	Oversight Task Force (Member)
2007 – 2016	Curriculum Committee (Member)
2007 – 2008	Outcomes Assessment Committee (Member)

University of Texas School of Health Information Sciences at Houston / School of Biomedical Informatics

2014 – Present	SBMI APT Committee (member)
2013 – 2016	President, Alumni Association
2012 – 2014	Faculty Search Committee (member)
2004 - 2005	Student Representative, Curriculum Committee
2003 - 2005	PhD Student Representative, Student Governance Organization, School of Health Information Sciences

Membership on Thesis and Supervisory Committees:

University of Texas School of Dentistry Houston

Masters

1. Kim Heeter DDS. To Treat or Not to Treat: Referral Practices Among Pediatric Dentists. 2009
2. Julie Longoria DDS. Factors that influence a patient's choice of an orthodontist in a competitive market. 2010
3. Aurelija Paunesku DDS. An analysis of facebow and Dento-Facial Analyzer mounting. 2010
4. Rajendar Matta DMD. The Effect of Age, Gender and Ethnicity on Selection of Shade and Mold of Artificial Denture Teeth: A Five Year Retrospective Study. 2013
5. Young J. Honnlee. Prevalence of a single tooth replacement decision with an implant crown verses a 3 unit fixed dental prosthesis: A 5 year retrospective study of patients in UTSD at Houston. 2015
6. Ali Sajadi. Clinical Accuracy of Pre-doctoral Periodontal Education in the US: An evaluation of the Generalist and Specialist Teaching Models on Periodontal Education. 2015.
7. Grayson Burgardt. Disparities in Response to Periodontal Treatment in Different Ethnic Groups. 2015.
8. Janice Diaz-Rodriguez. Implant Survival Rates in Bone Grafted Sites: A Retrospective Analyses. 2015.
9. Elizabeth Maurer Heath. Perceptions of orthodontic case complexity among orthodontists, general practitioners, orthodontic residents, and dental students. 2016.
10. Maria Messing. Investigating Potential Correlations Between Endodontic Pathology and Cardiovascular Diseases Using Epidemiological and Genetic Approaches. 2016.

Muhammad F Walji, Curriculum Vitae

11. Rosalie Nguyen. Survival of Implants Replacing Previously Failed Implants: A Retrospective Study in a University Setting. 2017.
12. Megha Pathak. A 10-Year Retrospective Study to Evaluate Mechanical Complications Related to Implant Treatment at UT School of Dentistry. 2017.
13. Rizzo, Gabriella. Studies of stroke-associated risk factor genes in apical periodontitis. 2019.
14. Nelson, Jiman. Diagnosing periodontal diseases on radiographs using a deep learning approach. 2022.

University of Texas School of Health Information Sciences at Houston

Masters Level

1. Truongson Hoang. Serological Surveillance of Hepatitis B Infection and Vaccination Status of Vietnamese Americans. 2010
2. Krishna Kookal. Role of Semantic Web in Overcoming Challenges in Biomedical Data Integration. 2011
3. Matthew Vagnoni. Role of Cognitive Science in Overcoming Challenges in Clinical Knowledge Exploration. 2012

PhD Level

1. Min Zhu. Formalizing a Conceptual Framework of Work Domain Knowledge. 2010

University of Texas School of Public Health at Houston

PhD Level

1. Duong Tran DDS MPH. Partial-Mouth Periodontal Examination Protocol For Estimation Of Prevalence, Severity And Extent Of Periodontitis. 2013
2. Sayali Sunil Tungare, BDS, MPH. Opioid and Antibiotic Prescribing In The Us Academic Dental Setting, 2022

University of Texas Dental Branch at Houston

Summer Research Focus for Dental Students

1. John Loeffelholz. A Human-centered Design of a Dental Discharge Summary (DDS) for Patients (5/29/07-07/27/07)
2. Andrew Tran. i2b2 – Informatics for Integrating Biology and Bedside Chairside Oral Health Related Information at your Finger Tips (5/29/09-07/27/09)
3. Nichole Fishbeck – Facebook for Education (5/29/14-8/31/14)
4. Tasneem Mahmood- Developing an EHR-based Quality Measure to Assess Adherence to Dental Radiographic Recommendations (5/29/18-08/31/18)
5. Yu Chen Chien - Correlations of Nocturnal Bruxism and Temporomandibular Disorders (5/29/18-08/31/18)
6. Nirja Shresthra – Assessing Disparities in the Delivery of Dental Sealants among Children (5/13/2019-08/09/2019)
7. Kiran Makhneija - Characterizing Opioid and Antibiotic Prescribing Patterns at Academic Dental Institutions (5/13/2019-08/09/2019)
8. Julio Lores Cruz – Assessing a Data Quality Framework in BigMouth Dental

Muhammad F Walji, Curriculum Vitae

Data Repository(5/13/2019-08/09/2019)

Brandeis University

Summer Research Program for Undergraduates

1. Aaron Glick. Assessing the Content, Presentation, and Readability of Dental Informed Consents (05/27/08-08/1/08)

Summer Research Program for Undergraduates/Predental Students

1. Jeremy Dewbre. Development of an Inter-University Oral Health Research Database (June 2010-Aug 2010)
2. Rami Alanbari. Identification of Dental Adverse Events Reported by Patients on the Internet. (June 2013-Aug 2013)
3. Angel Rivera. BigMouth Dental Data Repository. (June 2015-Aug 2015)
4. William Ferguson. Utilizing Electronic Health Record (EHR) Data to Examine the Quality of Dental Care Received by Patients with Diabetes. (June 2018-Aug 2018)

Post-doctoral Research Fellows

1. Duong Tran DDS MPH. PhD – 2013-2017
2. Sayali Sunil Tungare, BDS, MPH, PhD. 2022-Present

Teaching responsibilities: (current and past)

The University of Texas School of Dentistry at Houston

Courses as Course Director:

Fall 2008 - Present DENF 1991: Introduction to Dental Informatics (Didactic)

This course offers an introduction to dental informatics and the technology environment of the School of Dentistry, the information resources to which students have access, and the fundamental skills necessary to navigate within this environment. "Dental informatics" is the study of how health-related information is collected, stored, communicated and presented to enhance patient care and discovery. The course includes an emphasis on understanding the critical role of data and information in dentistry. The course also reviews the concepts of clinical decision-making, critical-thinking skills, ethical issues, clinical effectiveness, evidence-based dentistry, and the ability to retrieve and critically evaluate information resources. This a required course for all incoming dental students. In 2013 and 2014, second year dental hygiene students were integrated in the course. DH students receive credit through the existing Clinical Seminar 3 course.

Guest Lectures:

September 2023

Muhammad F Walji, Curriculum Vitae

- April 2, 2013 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)
- March 26, 2012 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)
- March 29, 2011 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)
- April 13, 2011 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)
- March 31, 2009 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)
- January 22, 2008 Introduction to Dental Informatics. Practice Management Class. (Audience: Dental Hygiene Students)

The University of Texas School of Biomedical Informatics Guest Lectures:

- October 20, 2011 EHR Usability. Cognitive Research Methods Class. (Audience: Health Informatics Graduate Students)
- April 23, 2007 Visualization of Social Dynamics. Health Data Display Class Lecture. (Audience: Health Informatics Graduate Students)
- October 9, 2006 Usability Evaluation. Healthcare Interface Design Class Lecture. (Audience: Health Informatics Graduate Students)
- July 17, 2006 Consumer Health Informatics: Current Trends & Future Opportunities. Monterrey Tech School of Medicine. Research Summer Experience 2006. (Audience: Medical Students from Monterrey Tech)
- November 14, 2005 Web Usability. Healthcare Interface Design Class Lecture. (Audience: Health Informatics Graduate Students)
- August 01, 2005 Alerts & Reminders: Enhancing Adherence in Healthcare through Persuasive Messages. Social Dynamics Class Lecture. (Audience: Health Informatics Graduate Students)
- April 11, 2005 Visualization of Interactions, Health Data Display Class. (Audience: Health Informatics Graduate Students)
- September 2023

Muhammad F Walji, Curriculum Vitae

Feb 21, 2005 The Effect of Display Formats On Task Performance, Health Data Display Class. (Audience: Health Informatics Graduate Students)

The University of Texas School of Nursing

Guest Lectures:

April 12, 2005 Data Collection and Management in Clinical Trials, Clinical Research Management Class. (Audience: Nursing Graduate Students)

May 23, 2004 Data Management in Clinical Trials, Clinical Research Management Class. (Audience: Nursing Graduate Students)

Prairie View A&M University College of Nursing

Guest Lectures:

October 24, 2007 Consumer Informatics & Persuasive Technology, Introduction to Health Care Informatics Class. (Audience: Nursing Graduate Students)

Hospital Pablo Tobon Uribe & Udea Practice Hosptia – Medellin, Columbia Short Course:

July 14, 2010 – July 21, 2010
Usability Short Course – Co-taught with Dr Jiajie Zhang
(Audience: Hospital Physicians, Nurses, IT Staff, and EHR developers)

National Center for Cognitive Informatics and Decision Making, UT-Health, – Houston, Texas

January 19, 2011 – January 21, 2011
EHR Usability Short Course – Co-taught with Dr Jiajie Zhang and Dr Vimla Patel

Other Training and Tutorials:

American Medical Informatics Association (AMIA), Fundamentals of EHR Usability. Tutorial given in 2011, 2012, 2013, 2014.

University of Florida College of Dentistry, Faculty Development Retreat: Unlocking AxiUm for Research: What is Health Informatics Research and How Do We Do it? October 15-October 16.

September 2023

Muhammad F Walji, Curriculum Vitae

Harvard School of Dental Medicine. Dental Public Health Topics Course:
Informatics Applications in Dentistry. December 6, 2022.

Grant support:

Ongoing Research Support

R01DE032368 08/01/2023 – 07/31/2028
NIH/NIDCR **\$ 3,319,612**
Title: Informatics Approaches to Understand and Reduce Inappropriate Antibiotic Prescribing by Dentists
Objective: We seek to quantify and understand guideline discordant antibiotic prescribing, and to iteratively develop improvement strategies to appropriately target prescribing to the right patients with the right ABx at the right time.
Role: PI (20%)

R01DE030657 Katie Suda (PI) 09/2022-03/2027
NIH/NIDCR **\$480,045 (UTH Sub)**
Pediatric Adverse Event Risk Reduction for High Risk Medications in Children and Adolescents: Improving Pediatric Patient Safety in Dental Practices
Objective: The goal of this mixed-methods study is to improve high-risk pediatric prescribing patterns among dentists by identifying current prescribing patterns associated with poor health outcomes that could be targeted for intervention
Role: PI on UTH Sub Contract (10%)

R01HS027938 09/30/2021 – 08/31/2026
AHRQ **\$ 2,000,000**
Title: Diagnostic Failures in Dentistry
Objective: We will determine the incidence of dental diagnostic failures (DDFs) associated with periodontal diseases and conditions, and evaluate clinical and treatment patterns and clinical outcomes following DDFs.
Role: PI (20%)

2R01DE024166 08/13/21-06/30/26
NIH/NIDCR **\$ 3,665,074**
Title: Implementing Dental Quality Measures in Practice
Objective: The objective of this proposal is to improve dental care quality relating to caries management strategies, the oral health condition with the highest impact, by developing a multi-component intervention, that includes key components of Learning Health System.
Role: PI (20%)

4UH3DE029158 08/01/2021 – 07/31/2025
September 2023

Muhammad F Walji, Curriculum Vitae

- NIH/NIDCR **\$1,903,257**
Understanding Pain after Dental Procedures
Objective: Through a two-phase (UG3/UH3) approach, we will systematically explore pain after dental procedures using mobile phones. We propose to develop a detailed, at the CDT procedure level, pain registry by engaging NDPBRN providers and patients undergoing dental surgical procedures.
Role: PI (20%)
- R18 HS027268 09/01/2019 – 08/31/2024 (NCE)
AHRQ **\$2,499,086**
Open Wide Learning Lab (OWLL): Improving Patient Safety in Dentistry
Objective: The major goals of this project are to advance the dental Patient Safety Initiative by translating our findings from chart reviews to a learning health system where we identify the contributing factors that lead to an adverse event and develop and test improvement strategies to prevent them.
Role: PI (20%)
- R01MD013719-01 (Mertz) 03/01/2019 – 11/30/2023
NIH/NIMHD **\$36,056 (Sub only)**
Reducing Oral Health Disparities in Children: Assessing the Multilevel Impact of a Standardize
Objective: To evaluate a clinical evidence-based approach to pediatric oral health care on its capacity to reduce socioeconomic oral health disparities in untreated caries and new caries incidence.
Role: Co-Investigator (5%)

Completed Research Support

- 1U18HS026135 08/01/18-06/30/22 (NCE)
AHRQ Elsbeth Kalenderian (PI) **\$ 1,186,383**
Title: Optimizing Acute Post-Operative Dental Pain Management Using New Health Information Technology
Goal: We propose an innovative solution to optimize the quality of dental pain monitoring and management by implementing mobile phone technology to monitor patients' pain during the critical acute post-operative phase. Our hypothesis is that by actively tracking these symptoms using mobile phones, we will promptly identify the patients with sub-optimal pain experiences and offer providers an opportunity to intervene (e.g. modify analgesic prescriptions), thereby eliminating needless suffering, reducing the occurrence and/or severity of post-op complications, and enhancing the overall care experience.
Role: PI on UTH Sub Contract (15%)
- UG3DE029158 08/21/2019 – 07/31/2021
NIH/NIDCR **\$382,627**
Understanding Pain after Dental Procedures

Muhammad F Walji, Curriculum Vitae

Objective: Through a two-phase (UG3/UH3) approach, we will systematically explore pain after dental procedures using mobile phones. We propose to develop a detailed, at the CDT procedure level, pain registry by engaging NDPBRN providers and patients undergoing dental surgical procedures.

Role: (Multiple) Principle Investigator (15%)

R01DE024166

03/01/15-08/12/21

NIH/NIDCR

\$ 3,692,153

Title: Implementing Dental Quality Measures in Practice

Goal: The objective of this proposal is to improve oral health by facilitating dental patient care quality improvement by 1) assessing dental quality measure implementation feasibility and validity, 2) implementing valid dental quality measures across 11 sites, and 3) developing useful and usable dashboard views to support the interpretation of dental quality measures.

Role: PI (25%) (Multiple PI with Elsbeth Kalenderian)

R01DE022628

12/01/12-11/30/19

NIH/NIDCR

\$3,907,831

Title: Developing A Patient Safety System For Dentistry

Goal: Clinical adverse events exact significant tolls on the health of individual patients and burden the nation with massive, avoidable costs. In this project we seek to identify adverse events in dentistry, which is an important step towards allowing the dental clinic to become a safer place. The results of this project will help to identify specific strategies and interventions to prevent these adverse events from occurring in the future.

Role: PI (30%)

R01HS024406

09/30/15-09/29/19

AHRQ

\$ 1,500,000

Title: Measuring Occurrence of and Disparities in Dental Clinic Adverse Events

Goal: This project will (1) give the first comprehensive perspective on adverse events that happen in dental practices, (2) help to identify whether certain groups of people are at higher risk, and (3) provide an estimate of how many more adverse events originating in the dental clinic we might find if we also looked at medical visits. Adverse events in medicine are a major source of preventable death and injury: identifying and addressing these events in dentistry will be a boon to our collective public health.

Role: PI (15%)

R01DE023061-01A1 Elsbeth Kalenderian (PI)

09/19/2013 – 08/31/2018

NIH/NIDCR

\$ 2,682,847

Title: A Whole Systems Approach to Implementing Standardized Dental

The objective of this work is to develop a tested, generalizable process for effectively implementing the “EZCodes”, in service of the long-term goal of broad dissemination of the benefits of a common dental diagnostic terminology.

Muhammad F Walji, Curriculum Vitae

Role: PI on UTH Sub Contract (15%)

R01 DE021051-01 Elsbeth Kalenderian 8/15/10-7/31/15
NIH/NIDCR **\$3,656,970**

Title: A Cognitive Approach to Refine and Enhance Use of a Dental Diagnostic Terminology

Goal: The major goals of this project are to increase utilization of diagnosis terms, decrease error rates of term entry, increase provider satisfaction with the entry process, and increase the number of dental schools that adopt the dental diagnosis module.

Role: PI on UTH Sub Contract (20%)

ONC-#10510592 Jiajie Zhang (PI) 4/1/2010-11/30/2014
Office of National Coordinator for Health IT, DHHS **\$15,000,000**

Title: National Center for Cognitive Informatics and Decision Making in Healthcare

Goal: Conduct short-term research that addresses the urgent usability, workflow, and cognitive support issues of HIT as well as long-term, breakthrough research that can fundamentally remove the key cognitive barriers to HIT adoption and meaningful use.

Role: Associate Director, Project leader and Co-I (20%)

G08LM010075-01 Muhammad Walji (PI) 9/30/09-9/29/13 **\$407,693**
National Library of Medicine (NLM)

Title: Development of an Inter-University Oral Health Research Database

Goal: Establish an Oral Health Data Repository that can accept and integrate data from disparate dental data sources, and allow end users to explore and extract information to support their specific research or decision making needs

Role: **PI** (30%)

Muhammad Walji (PI) 09/1/2009-08/31/2010 **\$5000**

Pathology Service Research Grant. UT Dental Branch

Title: Self Monitoring Technology to Encourage Oral Hygiene Behavior

Goal: Determine feasibility of a novel toothbrush prototype that tracks, reminds, and communicates pro-active and pre-interpreted information to patients, thus encouraging them to brush optimally

Role: **PI** (1%)

John Valenza (PI) 9/18/07 - 9/17/09 **\$50,000**

UT Houston - Center for Clinical and Translational Sciences, an NCRR Clinical and Translational Sciences Award program

Title: SmartConsent: A Computerized Informed Consent for Patients

Muhammad F Walji, Curriculum Vitae

Goal: Develop a novel computerized informed consent system and evaluate impact on patient decision making

Role: **Co-I** (5%)

W81XWH-07-2-0108 James Keel (PI) 9/17/07 – 10/16/09 **\$157,940**

Mission Hospitals

Title: Evaluating the Usability of CHCS/AHLTA and Cerner CPOEs

Goal: Compare usability of CHCS/AHLTA and Cerner CPOEs

Role: **Co-I** of Subcontract to UTHSC-H. UTHSC-H PI (Jiajie Zhang) (50%)

Muhammad Walji (PI) 03/1/2008-02/28/2009 **\$2500**

Pathology Service Research Grant. UT Dental Branch

Title: Assisting Dentists and Patients in Evidence-based Decisions at the Point of Care

Goal: Determine need and feasibility of a tool to help dentists provide evidence-based treatment information to their patients

Role: **PI** (1%)

Training Grant Support

T32 HS017586 Aisha Siddiqui MPH 01/01/09- 12/31/10

AHRQ Training Program in Patient Safety and Quality. W.M Keck Center for Interdisciplinary Biosciences Training of the Gulf Coast Consortia/AHRQ

Title: Using Technology to Improve Physical Activity Self Monitoring

Goal: Understand how to effectively use technology to enhance self-monitoring in order to improve patient health outcomes

Role: **Primary mentor** for trainee: Aisha Siddiqui MPH

Muhammad Walji (Trainee) 01/01/04-12/31/06 **\$90,639**

W.M Keck Center for Interdisciplinary Biosciences Training/National Library of Medicine

Title: Medical informatics research training grant

Goal: Determine how to enhance patient adherence to clinic appointment through the use of persuasive reminder messages

Role: **Trainee/Fellow**. Primary mentor: Jiajie Zhang.

Loan Repayment Award

Muhammad Walji (PI) 7/1/2010 - 6/30/2012 **\$17,971.28**

NIH Loan Repayment Program (1st Renewal)

Title: Decision Support for Dental Students and their Patients at the Point of Care

Muhammad F Walji, Curriculum Vitae

Goal: Establish a collaborative decision support system that can guide student dentists in providing evidence-based information to patients at the point of care

Role: **PI**

Muhammad Walji (PI)

7/1/2008 - 6/30/2010

\$21,429.12

NIH Loan Repayment Program

Title: ToothOptions: Assisting Dentists and Patients in Evidence-based Decisions at the Point of Care

Goal: Develop and evaluate a system called ToothOptions to help dentists provide evidence-based treatment information to their patients using a decision support system embedded in the electronic health record

Role: **PI**

Presentations:

ORAL PRESENTATIONS

International: Invited

1. **Walji MF**. Session Keynote: Informatics for Dental Applications. 9th Biennial Consortium for Orthodontic Advances in Science and Technology Conference. November 8, 2022. Lake Arrowhead, CA.
2. Kalenderian E, **Walji MF**. Harnessing your EHR for Quality Improvement. axiUm Summit. Jan 30, 2017. Vancouver, Canada
3. **Walji M**, Consortium of Oral Health Research and Informatics (COHRI). axiUm Summit. Feb 02, 2016. Vancouver, Canada
4. **Walji M**, Dental Decision Support. axiUm Summit. Feb 10, 2015. Vancouver, Canada
5. **Walji M**, Data Integration & BigMouth Dental Data Repository. Consortium of Oral Health Related Informatics, 14th Semi Annual Meeting. Feb 9, 2015. Vancouver, Canada
6. **Walji M**, Data Integration & BigMouth Dental Data Repository. Consortium of Oral Health Related Informatics, 12th Semi Annual Meeting. Feb 9, 2014. Vancouver, Canada
7. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 10th Semi Annual Meeting. Feb 10, 2013. Vancouver, Canada

Muhammad F Walji, Curriculum Vitae

8. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 9th Semi Annual Meeting. July 26, 2012. Boston, MA
9. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 8th Semi Annual Meeting. February 05, 2012. Vancouver, Canada
10. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 8th Semi Annual Meeting. Aug 04, 2011. Portland, OR
11. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 7th Semi Annual Meeting. Jan 30, 2011. Vancouver, Canada
12. **Walji M**, Data Integration. Consortium of Oral Health Related Informatics, 6th Semi Annual Meeting. Jan 24, 2010. Vancouver, Canada
13. **Walji M**, Data Integration and Security. Consortium of Oral Health Related Informatics, 5th Semi Annual Meeting. Jul 31, 2009. Indianapolis, IN
14. **Walji M**, Data Integration and Security. Consortium of Oral Health Related Informatics, 4th Semi Annual Meeting. Feb 21, 2009. Vancouver, Canada
15. **Walji M**, Data Management and Mining. Consortium of Oral Health Related Informatics, 3rd Semi Annual Meeting. Jul 25, 2008. San Francisco, CA
16. **Walji M**, Data Management and Mining. Consortium of Oral Health Related Informatics, 2nd Semi Annual Meeting. Feb 23, 2008. Vancouver, Canada

International: Non-invited

17. Walji M. Strategies for Dental Quality Measurement. July 25 2018. IADR General Session and Exhibition. London, UK.
Walji M, Kalenderian E, Gilbert GH. Update on the POPS study. Zoom presentation to practitioners participating in the POPS study. March 3, 2023.
18. **Walji M**, Sagaram S, Meric Bernstam F, Johnson C, Bernstam E. Cancer-related Complementary and Alternative Medicine Online: Factors Affecting Information Retrieval. Medinfo. 2004, September 11. San Francisco, CA.
19. Rukab J. Johnson-Throop K, Malin J, Zhang J. Framework of Interruptions in Distributed Team Environments. Medinfo. 2004, September 12. San Francisco, CA. (Presented by **Walji M.**)

National: Invited

20. **Walji MF**, Kalenderian E, Gilbert GH. Update on the Post Operative Pain Study study. Online Webinar to National Dental PBRN practitioners

September 2023

Muhammad F Walji, Curriculum Vitae

participating in the POPS study. March 3, 2023.

21. **Walji MF.** BigMouth: Lessons Learned from a Decade of Sharing EHR Data in Dentistry. Interoperability of Electronic Medical and Dental Records: A Learning Health System (LHS) Approach to Sharing Data, Generating Knowledge, Changing Practice and Improving Patient Outcomes Joint session with the UM School of Dentistry. Held by Webinar/Zoom. February 21, 2023.
22. **Waji MF,** White J, Rindal DB. Using mHealth to monitor pain after dental procedures. National Dental PBRN virtual meeting held by Webinar/Zoom. December 2, 2022.
23. **Walji MF.** OpenWide Learning Lab: Improving Patient Safety in Dentistry. AHRQ PSLM Annual Meeting. Sep 16. 2022. Rockville, MD
24. **Walji MF.** Developing a Patient Safety System for Dentistry. Open Wide: Improving Patient Safety in Dentistry. IHI External Affiliate Meeting. December 09 2018. Orlando FL.
25. **Walji MF.** Educational Informatics, Big Data, and the Future of Learning in Dentistry. Keynote Address for Academy of Distinguished Educators Induction Ceremony. New York University College of Dentistry. September 14 2018. New York, NY.
26. **Walji MF.** Using EHR Data to Improve Oral Healthcare Quality and Safety. Deans Guest Lecture. New York University College of Dentistry. September 14 2018. New York, NY.
27. **Walji MF.** Using Dental Diagnostic Terminology to Improve Oral Healthcare. Tufts School of Dental Medicine. March 8 2018. Boston, MA.
28. **Walji MF.** The Future of the Dental EHR. 2017 ADEA Deans' Conference. November 11 2018. Fort Lauderdale, FL.
29. **Walji MF,** Karimbux N, Spielman A. Person Centered Care. Opportunities and Challenges for Academic Dental Institutions. ADEA Webinar. January 23 2018.
30. **Walji MF.** BigMouth, EHRs and Quality Improvement in Dentistry. Texas A&M College of Dentistry. April 20, 2017. Dallas, TX.
31. **Walji MF.** BigMouth: A multi-institutional dental data repository. Dental Public Health Informatics Colloquium. Jan 19, 2017. San Antonio, TX.

Muhammad F Walji, Curriculum Vitae

32. **Walji MF.** BigMouth Dental Data Repository: Using EHR data for Research. Rutgers School of Dental Medicine. April 26, 2016 Newark NJ.
33. **Walji MF.** Informatics Approaches for Improving Oral Healthcare Safety and Quality. In Improving Oral Health Through Technology-Supported Evidence-Based Preventive Dentistry Panel. National Oral Health Conference. April 19 2016. Cincinnati OH.
34. **Walji MF.** Does the User Interface Matter? Toward a Diagnosis Driven Profession Symposium. AADR General Session and Exhibition 2016. March 19, 2016 Los Angeles CA.
35. **Walji MF.** COHRI BigMouth Dental Data Repository. Data for Oral Health Knowledge; How to get the Big Answers Workshop. IADR General Session and Exhibition 2015. March 14, 2015 Boston MA.
36. Franklin A, Johnson T, **Walji MF.** SHARPC Best Practices in Evaluating and Improving EHR Usability. AMIA Webinar. March 27, 2014. Presented as Webinar
37. **Walji MF.** Paving the Way for EHR Usability. SHARPC Annual Research Conference. March 25, 2014 Houston, TX.
38. **Walji MF.** Turf: EHR Usability Toolkit. The EHR Usability Symposium. AMIA Annual Symposium 2013. November 17, 2013 Washington DC.
39. **Walji M.** An Inter-University Dental Data Repository for Clinical and Quality Research. UCSF School of Dentistry. August 14 2012. Presented as Webinar.
40. **Walji M.** An Inter-University Dental Data Repository for Clinical and Quality Research. Tufts School of Dental Medicine. July 30 2012. Presented as Webinar.
41. **Walji M.** An Inter-University Dental Data Repository for Clinical and Quality Research. Harvard School of Dental Medicine. July 24 2012. Boston MA.
42. **Walji M.** National Center for Cognitive Informatics and Decision Making in Healthcare. HIMSS Federal Community. July 19, 2012. Presented as Webinar
43. **Walji M,** Zhang J. Expert Review. Creating Usable Electronic Health Records (EHRs): A User-Centered Design Best Practices Workshop. NIST. May 22, 2012. Gaithersburg, MD.

Muhammad F Walji, Curriculum Vitae

44. **Walji M.** From the Frontend to the Backend: Importance of EHR Usability for Secondary Data Analysis. The Marshfield Clinic, April 17, 2012. Marshfield, WI.
45. **Walji M.** Project 1: EHR Usability & Workflow. Work Centered Design of Care Process Improvements in HIT. SHARPC Annual Conference, April 03, 2012. Houston, TX.
46. **Walji M.** Evaluation and measurement of EHR usability: Where we are today. TURF A Unified Framework for EHR Usability. EHR Usability Symposium 2011 Usability Present and Future. October 21 2011. Washington DC
47. Zhang J, **Walji M.** TURF – A Unified Framework for Defining, Evaluating, Measuring, and Designing EHR Usability. A Community-Building Workshop: Measuring, Evaluating and Improving the Usability of Electronic Health Records. National Institute of Standards and Technology (NIST). June 7, 2011. Gaithersburg, MD.
48. **Walji M.** Development of an Inter-University Research Repository. University of Pittsburg – Center for Dental Informatics Research Seminar. June 3, 2011. Presented as Webinar on Internet.
49. **Walji M.** Work Centered Design of Care Process Improvements in HIT. Overview of Rapid Usability Assessment. Regional Extension Center Webinar. July 7, 2010. Presented as Webinar on Internet.
50. O’Neill P, **Walji M.** Measuring Clinical Decision-Making. ADEA CCI Liaisons’ Meeting. June 23, 2008. Chicago, IL.

National: Non-invited

51. **Walji MF**, Kalenderian E. Implementing Patient Reported Outcomes to Facilitate Person-Centered Oral Healthcare. ADEA Annual Session. 12 March 2023. Portland, OR.
52. **Walji MF**, Yansane A, Spallek H, Kalenderian E. How to Use EHR Data for Research. ADEA Annual Session. 18 March 2018. Orlando, FL.
53. **Walji MF.** Informatics Approaches for Improving Oral Healthcare Safety and Quality. AADR General Session and Exhibition 2016. March 18, 2016 Los Angeles CA.
54. **Walji MF:** Informatics Approaches for Identifying Dental Adverse Events. ADEA 2015 Annual Session and Exhibition. March 9, 2015.

Muhammad F Walji, Curriculum Vitae

Boston, MA.

55. **Walji MF**: BigMouth A Multi-Institutional Dental Data Repository. ADEA 2015 Annual Session and Exhibition. March 8, 2015. Boston, MA.
56. **Walji MF**, Kalenderian E, Stark PC, White J, Ramoni R. BigMouth: A Multi-Institutional Dental Data Repository. AMIA Annual Symposium 2013. November 19, 2013 Washington DC.
57. **Walji MF**. Patient Safety and Informatics. ADEA 2013 Annual Session and Exhibition. March 17, 2013. Seattle, WA.
58. Walji MF. Rapid Usability Assessment of Commercial EHRs. AMIA 2012 Annual Symposium. November 07, 2012. Chicago, IL.
59. **Walji MF**. The Need for Informatics Education and Training in Dentistry. ADEA 2012 Annual Session and Exhibition. March 21, 2012. Orlando, FL.
60. **Walji MF**. Digging through the EHR goldmine at 4 dental schools. ADEA 2012 Annual Session and Exhibition. March 19, 2012. Orlando, FL.
61. **Walji MF**. Development of an Inter-University Oral Health Research Database. Informatics Short Talks. ADEA 2012 Annual Session and Exhibition. March 17, 2012. Orlando, FL.
62. Ramoni R, Kalenderian E, **Walji MF**. What Meaningful Use Means for Dentists. Axium Summit 2012. February 7, 2012. Vancouver, Canada.
63. Zhang J, **Walji MF**, Butler K, Xiao Y, Haselkorn M. EHR Rapid Usability Assessment. Presented in the Panel: The Role of Usability, Workflow, and Patient-Centered Cognitive Support in improving Health Information Technology. AMIA 2011 Annual Symposium. October 24, 2012. Washington DC.
64. Acharya A, Watkins T, **Walji MF**, Simhaee D. Informatics at Dental Schools: Closing the Chasm Between Students and Faculty. ADEA Annual Session and Exhibition. March 12-16, 2011. San Diego, CA.
65. **Walji M**. Persuasive Automated Telephone Messages to Reduce Appointment No-shows. HIMSS 2009 Annual Conference and Exhibition. E-Session. April 4-April, 2009. Chicago, IL.
66. **Walji MF**, Zhang J. Human-centered Design of Persuasive Appointment Reminders. Hawaii International Conference on System Sciences, January 8 2008, Big Island, HI.

Muhammad F Walji, Curriculum Vitae

67. **Walji M.** Persuasive Voice Reminders to Enhance Appointment Adherence. Public Health Informatics Cohort. AMIA Symposium 2006. November 11. Washington, DC.
68. **Walji M.** The Toxicity of Consumer Health Information on the Internet. NLM Informatics Training Conference. 2006, June 28. Nashville. TC.
69. **Walji M.** Does the Message Matter? Enhancing Patient Adherence through Persuasive Messages. NLM Informatics Training Conference. 2005, July 12. Bethesda. MA.

Local: Invited

70. **Walji M.** Using EHR Data to Improve Oral Healthcare Quality and Safety. UTHealth School of Nursing. November 28 2017. Houston, TX.
71. **Walji M.** Using EHRs for Improving the Safety and Quality of Oral Healthcare. UTHealth School of Dentistry Advisory Board Meeting. June 17 2016. Houston, TX.
72. **Walji M.** Informatics Trends in Improving Quality and Safety of Oral Health Care. American College of Dentists Meeting. Star of the South. January 23, 2015. Houston, TX.
73. **Walji M.** Development of a Patient Safety System for Dentistry. Department of Diagnostic and Biomedical Sciences Research Seminar. UTHealth School of Dentistry. November 25, 2013. Houston, TX.
74. **Walji MF.** "I advocate because..." Panelist. Learning to be an Advocate for Oral Health Symposium Co-Sponsored by UTHealth School of Dentistry and American Dental Education Association. November 8, 2013. Houston, TX.
75. **Walji M.** Development of a Patient Safety System for Dentistry. SBMI Research Seminar. May 01, 2013. Houston, TX.
76. **Walji, M.** Informatics: What it Means for you as a Faculty Member. UTHealth School of Dentistry Faculty Retreat. June 22, 2012. Houston, TX.
77. **Walji M.** From the Frontend to the Backend: Importance of EHR Usability for Secondary Data Analysis in Dentistry. SBMI Research Seminar. April 25, 2012. Houston, TX.
78. **Walji, M.** Challenges of Using Dental Electronic Patient Records Data for Comparative Effectiveness Research. Orthodontics Resident Seminar. The

Muhammad F Walji, Curriculum Vitae

University of Texas Dental Branch at Houston. April 22, 2009. Houston, TX.

79. **Walji, M.** Patient-centered E-Oral health. Greater Houston Dental Hygienists' Society. February 12 2008. Houston, TX.
80. **Walji, M.** Enhancing Adherence to Appointments through Automated Telephone Reminder Messages. Community Health Program. Executive Committee of the Medical and Dental Staff. Harris County Hospital District. May 25, 2007. Houston, TX.

Local: Non-Invited

81. **Walji M.** Does the Message Matter? Enhancing Patient Adherence through Persuasive Messages. PhD Dissertation Defense. UT School of Health Information Sciences, Dec 1, 2006. Houston, TX.
82. **Walji M,** Bernstam E. Leaning the hard way: Barriers to consumer health education on the Internet. Advances in Teaching and Learning 2005. May 10, 2005. Houston, TX.
83. **Walji M.** Does the Message Matter? Enhancing Adherence in Healthcare through Persuasive Messages. Candidacy Exam. School of Health Information Sciences. Univ of Texas Health Science Center at Houston. January 24, 2005
84. **Walji M.** Consumer Health Informatics – Current Trends and Future Opportunities. School of Health Information Sciences Research Seminar Series. 2004, January 21.

POSTER PRESENTATIONS

1. Kalenderian, E., Ramoni, R.B., **Walji, M.F.** Assessing Patient Safety in Dentistry. AAMC 2012 Integrating Quality Meeting: Collaborating for Care, Chicago, June 2012. Moderated Poster Session.
2. Lee L, **Walji M,** Li Y, Zhang J. Estimating Task Execution Time in EHRs Using the Keystroke-Level Model. AMIA 2011 Annual Symposium. October 24 2011. Washington, DC.
3. Zhang Z, Li Y, **Walji M,** Franklin A, Zhang J. A Metric for Measuring Cognitive Transparency of EHR User Interfaces. AMIA 2011 Annual Symposium. October 24 2011. Washington, DC.
4. **Walji, M.F.,** Stark, P., Kalenderian, E., White, J. Feasibility of Integrating Dental School Electronic Health Record Data to Facilitate Oral Health Research. AMIA

Muhammad F Walji, Curriculum Vitae

Annu Symp Proc. 2010:1294.

5. Kookal, KK, Goodwin JC, Saitwal H, Johnson T, **Walji MF**, Mirhaji P. Enabling Semantic Query of Medication Data within the i2b2 Framework. AMIA Annu Symp Proc. 2010:1132.
6. O'Neill, P., **Walji, M.** Roeder, L. Enhanced Use of Instructional Technology in the Teaching and Learning Environment of a New Dental School Replacement Building. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
7. Chambers, S., **Walji, M.**, Estes, K. Assessing the Feasibility of an Online Appointment Screening Form for Patients Seeking Treatment at a Dental School Clinic. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
8. Koeppen, R., O'Neill, P. **Walji, M.** Relationships Between Dental Students' Personality Types and Learning Preferences. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
9. **Walji, M.**, Taylor, D., & Valenza, J. ToothVault: Helping Patients Make Informed Dental Health Decisions. AMIA Annu Symp Proc. 2009. Nov 17, 2009. San Francisco, CA.
10. Valenza, J., **Walji, M.**, & Taylor, D., Curricular and Technology Change as Part of Planning and Design of a New Dental School Building. AMIA Annu Symp Proc. 2009. Nov 17, 2009. San Francisco, CA.
11. Coker, O., **Walji, M.** User-Centered Design of a Mobile Device Interface to Support Oral Health Self-Monitoring. AMIA Annu Symp Proc. 2009. Nov 17, 2009. San Francisco, CA.
12. Zhu M, Li Z, **Walji MF**, Zhang J. Identifying functional discrepancies in self monitoring intake applications. AMIA Annu Symp Proc. 2008:1197.
13. Zhang H, Zhu M, **Walji MF**, Hanna R, Johnson CW. Factors influencing clinical treatment for severe chronic periodontitis. AMIA Annu Symp Proc. 2008:1192.
14. **Walji MF**, Coker O, Valenza JA, Henson H, Warren-Morris D, Zhong L. A persuasive toothbrush to enhance oral hygiene adherence. AMIA Annu Symp Proc. 2008:1167.
15. Spence JM, **Walji MF**, Valenza JA, Taylor D. Use of electronic forms within an electronic patient record to create an institutional clinical data repository. AMIA Annu Symp Proc. 2008:1146.
16. Valenza JA, Spence JM, Taylor D, **Walji MF**. SmartConsent: A Computerized Informed Consent for Dental Patients. AMIA Annu Symp Proc. 2008:1161.

Muhammad F Walji, Curriculum Vitae

17. **Walji MF**, Valenza JA. How Consumers Rate Dentists on the Internet. American Association of Dental Researchers Annual Meeting and Exhibition 2008. April 04. Dallas, TX.
18. **Walji M**, Valenza J. ToothOptions: Enhancing Evidence-Based Decisions at Chair-Side. 2008 ADEA Annual Session: Poster Sessions and TechExpo Presentations. March 31, 2008. Dallas, TX.
19. **Walji M**, Loeffelholz J, Valenza JA. A Human-centered Design of a Dental Discharge Summary (DDS) for Patients. AMIA 2007 Annual Symposium. November 13, 2007. Chicago, IL.
20. Valenza JA, **Walji M**. Creating a Searchable Digital Dental Radiograph Repository for Patient Care, Teaching and Research Using an Online Photo Management and Sharing Application. AMIA 2007 Annual Symposium. November 12, 2007. Chicago, IL.
21. Chambers S, Spence J, Taylor D, **Walji M**, Valenza JA. Assessing User Perceptions of an Electronic Patient Record (EPR) before Implementation. AMIA 2007 Annual Symposium. November 13, 2007. Chicago, IL.
22. **Walji M** & Zhang J. Persuasive Voice Reminders to Enhance Appointment Adherence. Keck Center 16th Annual Research Conference. 2006 Oct 13. Houston, TX.
23. **Walji M**, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Persuasive Email Reminders to Enhance Appointment Adherence for Diabetics. AMIA Spring Congress. 2006.
24. **Walji M**, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Persuasive Email Messages for Patient Communication. AMIA Annu Symp Proc. 2005;:1148.
25. **Walji M**, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Persuasive Email Messages for Patient Communication. Keck Center 15th Annual Research Conference. 2005 Oct 6-7. Houston, TX.
26. **Walji M**, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Enhancing Adherence in Healthcare through Persuasive Messages. HFES Houston Chapter 2005 Conference. 2005 May 06.
27. **Walji M**, Sagaram S, Meric-Bernstam F, Johnson C, Bernstam E. Cancer-related Complementary and Alternative Medicine Online: Factors Affecting Information Retrieval. UTH 10th Annual Research Day November 2004,

Muhammad F Walji, Curriculum Vitae

Houston, TX.

28. **Walji M**, Brixey JJ, Johnson Throop K, Zhang J. Persuasive Pager Notification Design for Emergency Room Physicians. UTH 10th Annual Research Day November 2004, Houston, TX.
29. **Walji M**, Shelton D, Lund G, Johnson T. Consumer's Words – Are They Covered in Standard Medical Terminology? UTH 10th Annual Research Day November 2004, Houston, TX.
30. **Walji M**, Brixey JJ, Johnson Throop K, Zhang J. Persuasive Pager Notification Design for Emergency Room Physicians. 2004 Keck Center/HAMBP Annual Research Conference. Oct 8. Clear Lake, TX. 2004; #81.
31. **Walji M**, Johnson-Throop K, Malin JT, Zhang J. The case for persuasive interruptions in healthcare. Medinfo 2004. September 9. San Francisco, CA
32. **Walji M**, Brixey J, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions. 26th Annual Meeting of the Cognitive Science Society. 2004 Aug 5-7, Chicago.
33. **Walji M**, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions in healthcare. NLM Informatics Training Conference. 2004, June 9-10. Indianapolis. IN.
34. **Walji M**, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions in healthcare. The Ninth Annual Structural Biology Symposium. 2004, April 30-May1. Galveston, TX.
35. **Walji M**, Johnson-Throop K, Malin JT, Zhang J. A theoretical framework to understand and engineer persuasive interruptions. HFES Houston Chapter 2004 Conference. 2004 April 23.
36. **Walji M**, Johnson-Throop K, Malin JT, Zhang J. The case for persuasive interruptions in healthcare. UTH Research Day November 2003, Houston, TX.
37. Sagaram S, **Walji M**, MERIC Bernstam F, Johnson C, Bernstam E. Quality measures of online health information: Inter-observer agreement. UTH Research Day November 2003, Houston, TX.
38. **Walji M**, Sagaram S, Sagaram D, MERIC Bernstam F, Johnson C, Mirza N, Bernstam E. Efficacy of quality criteria to screen out potentially harmful information: A Cross-sectional Survey of Complementary and Alternative Medicine Websites. UTH Research Day November 2003, Houston, TX.

Muhammad F Walji, Curriculum Vitae

39. Shankar P, **Walji M**, Kaur I, Richesson R, Turley JP Johnson-Throop K. Knowledge Modeling for Early Detection of Bioterrorism. UTH Research Day November 2003, Houston, TX.

Publications:

a. Abstracts

1. Yansane, A., White, J. M., Brandon, R., Bangar, S., Kalenderian, E., Mullins, J., **Walji, M**. Caries Outcomes of Care Determination from an Electronic Health Record. J Dent Res 2021;100(A): 3573214
2. Bangar, A., Neumann, A., White, J.M., Yansane, A., Johnson, T.R., Olson, G.W., Kumar, S.V., Kookal, K.K., Kim, A., Obadan-Udoh, E., Mertz, E., Simmons, K., Mullins, J., Brandon, R., **Walji, M.F.**, Kalenderian, E. A Quality Measure to Assess Documentation of Caries Risk Assessment. J Dent Res 2021;100(A): 3573974
3. Tungare, S., Gantela, S., Kookal, K., Yansane, A., Sedlock, E., McCurdy, S., Johnson, T.R., **Walji, M**. Personalized Dashboards for Dentists to Monitor Their Opioid Prescribing Behavior. J Dent Res 2021;100(A): 3577185
4. Johnson, T.R., Kookal, K.K., Applegate, R., Bangar, S., Yansane, A., White, J.M., Ryan, B., Simmons, K., Mullins, J., Neumann, A., **Walji, M.F.**, Kalenderian, E. Evaluation Of Change Detection Methods For Annual Dental Quality Measures. J Dent Res 2021;100(A):3572577
5. Sedlock E., Gardner, A., Mun, M., **Walji, M.**, Brandon, R. Assessing Documentation and Quality of Care through an EHR-based Audit. J Dent Res 2021;100(A): 3573759
6. Obadan-Udoh E, White J, **Walji MF**, Kalenderian E. National Oral Health Conference: A Practical Approach to Detecting, Understanding and Mitigating Dental Care-related Harm. April 2018, Louisville, KY.
7. Kumar, S., Obadan-Udoh, E., Yansane, A., Neumann, A., Bangar, S., Kookal, K., Even, JB, Mullins, JM, Simmons, J., Kim, A., Tokede, B., White, JM, Kalenderian, E., **Walji, MF**. Monitoring Sealant Treatment Practices Using EHR-based Quality Measures. J Dent Res 2018;97(A):2849700
8. Kalenderian E., Obadan E., Neumann A., MacPharlin R., Kent K., Heballi N., White J., Yansane A., **Walji M**. Mining the Electronic Health Record for Dental Adverse Events. J Dent Res 2018;97(A): 2853847
9. Ibarra-Noriega A, Kookal K, Heballi N, Delattre VF, Kent K, McPharlin R, Obadan-Udoh E, Tokede O, Lee J, Nikdel C, White JM, Kalenderian E, **Walji MF**. Characterizing Pain Associated With A Dental Adverse Event. J Dent Res 2018;97(A): 2848724

Muhammad F Walji, Curriculum Vitae

10. Cathy N., Franklin, A., Nikdel, K., Ibarra-Noriega, A., Kalenderian, E., **Walji, MF**. Root Cause Analysis for Prevention of Future Dental Adverse Events. J Dent Res 2018;97(A):2850399
11. Obadan-Udoh, E., Nayudu, A., Yansane, A., White, JM, **Walji, MF**, Kalenderian, E. Engaging Patients as Vigilant Partners in Safety Reporting at the Dental Office. J Dent Res 2018;97(A): 2860361
12. Bangar,S., Panwar,S., Obadan,E.,Yansane, A.,Neumann,A., Kumar, S., Kookal, K., Evens,J., Mullins, J., Simmons, K.,Kim, A.,Tokede, O., **Walji, MF.**, Kalenderian, E., White,J. Do institutions document caries risk and deliver appropriate treatments? J Dent Res 2018;97(A):2856221.
13. Tokede, B., Kalenderian, E., Yansane, A. I., Hebballi, N., Rindal, D. B., Worley, D., Delattre, VF, White, JM, Obadan-Udoh, EM, Rush, WA, **Walji, MF**. The Prevalence and Nature of Adverse Events in Dentistry. J Dent Res 2018;97(A):2856221.
14. **Walji MF**, Ramoni, R., Simmons, K., White, J., Kalenderian E. Using EHRs and Big Data for Measuring Oral Healthcare Quality. March 2017. IADR Annual Symposium, San Francisco, CA. Poster #0553 CONTROL ID: 2634041
15. Modha, JB, Kalenderian, E., Walji, MF. Dental Dashboards for Improving Safety and Quality of Oral Healthcare. March 2017. IADR Annual Symposium, San Francisco, CA. Poster #3970
16. Even JB, Mullins JM, White J, **Walji M**, Kalenderian E. Dental Quality Metrics for Assessing Periodontal Care. March 2017. IADR Annual Symposium, San Francisco, CA. Poster #1604 CONTROL ID: 2626253.
17. Adibi, S. Kalenderian E, Gellin R, Coover M, Abdulrahiman A, Hamil L, **Walji MF**, O'Neill P, Reed S. Pilot Study of Critical Thinking Skills of Dental Students: UTHSCH School of Dentistry Results. 2014 ADEA Annual Session & Exhibition.
18. **Walji MF**, Kalenderian E, Stark PC, White J, Ramoni R. BigMouth: A Multi-Institutional Dental Data Repository. AMIA Annual Symposium 2013, 1425.
19. Franklin A, Graves K, **Walji MF**, Zhang J. EHR Certification and Safety Enhanced Design: The need for robust usability testing scenarios. AMIA Annual Symposium 2013, 455.
20. Diaz-Garelli JF, **Walji M**, Zhang J, Franklin A. Alert Overrides: The Impact of Chained Events. AMIA Annual Symposium 2013, 316.
21. Zhang Z, **Walji MF**, Franklin A, Zhang J. Gaps in functionality: Work-centered Design of Medication List in Ambulatory EHRs. AMIA Annual Symposium

Muhammad F Walji, Curriculum Vitae

2013, 316. 1589

22. Adibi S, Chaluparambil J, Chambers S, Estes K, Valenza J, **Walji MF**. Assessing the Provision of Comprehensive Care at a Dental School. 2014 ADEA Annual Session & Exhibition. JDE. Feb 2013: 205.
23. **Walji MF**, Frankliin A, Zhang Z, Graves K, Li Y, Gu Y, Simmons D, Zhang J. Rapid Usability Assessment of Commercial EHRs. AMIA 2012 Annual Symposium. 1580.
24. Franklin A, Simmons D, Graves K, Zhang Z, Harrington C, **Walji MF**, Zhang J. Usability Problems and Patient Safety Risks in EHR Design. AMIA 2012 Annual Symposium. 1609.
25. Zhu M, Rogith D, **Walji MF**, Zhang J. TURFS: A Comprehensive Tool Suite for Usability Evaluation and Redesign. AMIA 2012 Annual Symposium. 1662.
26. Rogith D, Zhu M, Walji MF, Franklin A, Zhang J. TURFS: A tool to Semi-Automate Usability Assessments of EHRs. AMIA 2012 Annual Symposium. 1918.
27. Li Y, **Walji MF**, Franklin A, Zhang J. Exploring E-Prescribing Task Flow and Design in Commercial EHRs. AMIA 2012 Annual Symposium. 1837.
28. Zheng Z, **Walji M**, Franklin A, Zhang J. An Application of a Cognitive Transparency Metric in EHR User Interfaces. AMIA 2012 Annual Symposium. 2022.
29. Zhang J, **Walji MF**, Butler K, Xiao Y, Haselkorn M. The Role of Usability, Workflow, and Patient-Centered Cognitive Support in improving Health Information Technology. AMIA 2011 Annual Symposium. 2111-2113.
30. Lee L, **Walji M**, Li Y, Zhang J. Estimating Task Execution Time in EHRs Using the Keystroke-Level Model. AMIA 2011 Annual Symposium. 1851.
31. Zhang Z, Li Y, **Walji M**, Franklin A, Zhang J. A Metric for Measuring Cognitive Transparency of EHR User Interfaces. AMIA 2011 Annual Symposium. 2023.
32. Zhu M, **Walji MF**, Zhang J. Extracting and Inserting Meaningful Use Concepts into UFuRT Models. AMIA 2011 Annual Symposium. 2025.
33. Kalenderian E, Ramoni R, Stark P, White J, **Walji MF**. Using a Practical, Standardized Dental Diagnostic Terminology in a Dental Electronic Health Record. ADEA Annual Session 2011 TechExpo:479.
34. **Walji, M.F.**, Stark, P., Kalenderian, E., White, J. Feasibility of Integrating Dental School Electronic Health Record Data to Facilitate Oral Health Research. AMIA Annu Symp Proc. 2010:1294.

Muhammad F Walji, Curriculum Vitae

35. O'Neill, P., **Walji, M.** Roeder, L. Enhanced Use of Instructional Technology in the Teaching and Learning Environment of a New Dental School Replacement Building. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
36. Chambers, S., **Walji, M.**, Estes, K. Assessing the Feasibility of an Online Appointment Screening Form for Patients Seeking Treatment at a Dental School Clinic. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
37. Koeppen, R., O'Neill, P. **Walji, M.** Relationships Between Dental Students' Personality Types and Learning Preferences. 2010 ADEA Annual Session: Poster Abstracts. *J Dent Educ.* 74(2): 149-210 2010
38. **Walji, M.**, Tran, A., Kalenderian, K., Stark, P. White, J. Development of an Oral Health Research Repository Using i2b2. 2010 ADEA TechExpo: Abstracts of Presentations. *J Dent Educ.* 74(2): 219-224 2010.
39. **Walji, M.**, Taylor, D., & Valenza, J. ToothVault: Helping Patients Make Informed Dental Health Decisions. AMIA Annu Symp Proc. 2009:1067.
40. Valenza, J., **Walji, M.**, & Taylor, D., Curricular and Technology Change as Part of Planning and Design of a New Dental School Building. AMIA Annu Symp Proc. 2009:1062.
41. Coker, O., **Walji, M.** User-Centered Design of a Mobile Device Interface to Support Oral Health Self-Monitoring. AMIA Annu Symp Proc. 2009:799.
42. Zhu M, Li Z, **Walji MF**, Zhang J. Identifying functional discrepancies in self monitoring intake applications. AMIA Annu Symp Proc. 2008:1197.
43. Zhang H, Zhu M, **Walji MF**, Hanna R, Johnson CW. Factors influencing clinical treatment for severe chronic periodontitis. AMIA Annu Symp Proc. 2008:1192.
44. **Walji MF**, Coker O, Valenza JA, Henson H, Warren-Morris D, Zhong L. A persuasive toothbrush to enhance oral hygiene adherence. AMIA Annu Symp Proc. 2008:1167.
45. Spence JM, **Walji MF**, Valenza JA, Taylor D. Use of electronic forms within an electronic patient record to create an institutional clinical data repository. AMIA Annu Symp Proc. 2008:1146.
46. Valenza JA, Spence JM, Taylor D, **Walji MF**. SmartConsent: A Computerized Informed Consent for Dental Patients. AMIA Annu Symp Proc. 2008:1161.
47. **Walji MF**, Valenza JA. How Consumers Rate Dentists on the Internet, *J Dent Res* 87,(Spec Iss A):883, 2008 (www.dentalresearch.org).

Muhammad F Walji, Curriculum Vitae

48. **Walji M** & Valenza J. ToothOptions: Enhancing Evidence-Based Decisions at Chair-Side. 2008 ADEA Annual Session: Poster Sessions and TechExpo Presentations.
49. **Walji M**, Loeffelholz J, Valenza JA. A Human-centered Design of a Dental Discharge Summary (DDS) for Patients. AMIA Annu Symp Proc. 2007:1146.
50. Valenza JA, **Walji M**. Creating a Searchable Digital Dental Radiograph Repository for Patient Care, Teaching and Research Using an Online Photo Management and Sharing Application. AMIA Annu Symp Proc. 2007:1143.
51. Chambers S, Spence J, Taylor D, **Walji M**, Valenza JA. Assessing User Perceptions of an Electronic Patient Record (EPR) before Implementation. AMIA Annu Symp Proc. 2007:896.
52. Meric-Bernstam F, **Walji M**, Sagaram D, Sagaram S, Johnson CW, Bernstam EV. Conventional cautions regarding online information: do they predict accuracy of breast cancer websites? Proceedings of the American Society of Clinical Oncology 42nd Annual Meeting, (abstract 6086), 2006.
53. **Walji M**, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Persuasive Email Messages for Patient Communication. AMIA Annu Symp Proc. 2005;:1148.
54. **Walji M**, Johnson Throop K, Malin J, Zhang J. The case for persuasive interruptions in healthcare. Medinfo 2004 ;2004(CD):1899.
55. Shankar P, **Walji M**, Ali A, Johnson-Throop KA. Decision support systems to identify different species of malarial parasites. Proc AMIA Symp. 2003:1006.
56. Sagaram S, **Walji M**, Meric F, Bernstam EV. Cancer-related complementary and alternative medicine (CAM) on the Web. In Proceedings of the 39th ASCO Annual Meeting; 2003 May 31- June 3; Chicago. Abstr. no. 2226.
57. Li H, **Walji M**, Smith FE. Data Sharing In Store-And-Forward Telemedicine Evaluation Of Diabetic Retinopathy Information In A Diabetes Center. Proceedings American Telemedicine Association Meeting 2002
58. Rukab J, **Walji M**. Reducing Errors and Improving performance by Applying Usability Engineering Principles to a Web-based Prototype of an Integrative Medicine Reference Tool. Proc AMIA Symp. 2002:1146.

b. Peer Reviewed/Refereed Original Articles in Journals/Proceedings

Muhammad F Walji, Curriculum Vitae

1. Kabir T, Chen L, **Walji MF**, Giancardo L, Jiang X, Shams S. Dental CLAIREs: Contrastive LAnguage Image REtrieval Search for Dental Research. AMIA Jt Summits Transl Sci Proc. 2023 Jun 16;2023:300-309. PMID: 37350885; PMCID: PMC10283104.
2. Tungare S, Gantela S, Kookal KK, Yansane AI, Sedlock E, Jeske A, Johnson T, **Walji M**. Designing audit and feedback dashboards for dentists to monitor their opioid prescribing. Int J Med Inform. 2023 Aug;176:105092. doi: 10.1016/j.ijmedinf.2023.105092. Epub 2023 May 22. PMID: 37267811.
3. Lee CT, Zhang K, Li W, Tang K, Ling Y, **Walji MF**, Jiang X. Identifying predictors of tooth loss using a rule-based machine learning approach: A retrospective study at university-setting clinics. J Periodontol. 2023 Apr 16. doi: 10.1002/JPER.23-0030. Epub ahead of print. PMID: 37063053.
4. **Walji MF**. Informatics approaches to improve the quality of dental care. Orthod Craniofac Res. 2023 Mar 15. doi: 10.1111/ocr.12655. Epub ahead of print. PMID: 36919982.
5. Kalenderian E, Bangar S, Yansane A, Tran D, Sedlock E, Xiao Y, Urata J, Olson G, Franklin A, Kookal, Ibarra-Noriega A, Tungare S, Tokede O, Spallek H, White J, **Walji MF**. Identifying Contributing Factors Associated with Dental Adverse Events through a Pragmatic EHR-based Root Cause Analysis. J Patient Saf. 2023 Aug 1;19(5):305-312. doi: 10.1097/PTS.0000000000001122. Epub 2023 Apr 7. PMID: 37015101; PMCID: PMC10363220.
6. Brandon RG, Bangar S, Yansane A, Neumann A, Mullins JM, Kalenderian E, **Walji MF**, White JM. Development of quality measures to assess tooth decay outcomes from electronic health record data. J Public Health Dent. 2023 Mar;83(1):33-42. doi: 10.1111/jphd.12545. Epub 2022 Oct 12. PMID: 36224111.
7. Kalenderian E, White J, Yansane AI, Urata J, Holmes D, Funkhouser K, Mungia R, Xiao J, Rauschenberger C, Ibarra-Noriega A, Tran D, Rindal DB, Spallek H, **Walji M**. Study protocol: understanding pain after dental procedures, an observational study within the National Dental PBRN. BMC Oral Health. 2022 Dec 9;22(1):581. doi: 10.1186/s12903-022-02573-9. PMID: 36494795; PMCID: PMC9733211.
8. Tokede B, Yansane A, White J, Bangar S, Mullins J, Brandon R, Gantela S, Kookal K, Rindal D, Lee CT, Lin GH, Spallek H, Kalenderian E, **Walji M**. Translating periodontal data to knowledge in a learning health system. J Am Dent Assoc. 2022 Aug 12:S0002-8177(22)00367-1. doi: 10.1016/j.adaj.2022.06.007. Epub ahead of print. PMID: 35970673.

Muhammad F Walji, Curriculum Vitae

9. Franklin A, Kalenderian E, Hebballi N, Delattre V, Etoule J, White J, Vaderhobli R, Stewart D, Kent K, Yansane A, **Walji M**. Building Consensus for a Shared Definition of Adverse Events: A Case Study in the Profession of Dentistry. *J Patient Saf*. 2022 Aug 1;18(5):470-474. doi: 10.1097/PTS.0000000000000959. PMID: 35948296; PMCID: PMC9377700.
10. Zouaidi K, Olson G, Lee HH, Kalenderian E, **Walji MF**. An Observational Retrospective Study of Adverse Events and Behavioral Outcomes During Pediatric Dental Sedation. *Pediatr Dent*. 2022 May 15;44(3):174-180. PMID: 35799341.
11. Kalenderian E, Lee JH, Obadan-Udoh EM, Yansane A, White JM, **Walji MF**. Development of an Inventory of Dental Harms: Methods and Rationale. *J Patient Saf*. 2022 Sep 1;18(6):559-564. doi: 10.1097/PTS.0000000000001033. Epub 2022 Jun 30. PMID: 35771964; PMCID: PMC9391256.
12. Saenthaveesuk P, Kiat-Amnuay S, **Walji MF**. Using Electronic Dental Records to Assess Osteoradionecrosis Risk in Irradiated Head and Neck Cancer. *JDR Clin Trans Res*. 2022 Apr 15;23800844221089549. doi: 10.1177/23800844221089549. Epub ahead of print. PMID: 35426343.
13. Ngantcha P, Amith MT, Roberts K, Valenza JA, **Walji M**, Tao C. Dental EHR-infused Persona Ontologies to Enrich Dental Dialogue Interaction of Agents. *Proceedings (IEEE Int Conf Bioinformatics Biomed)*. 2021 Dec;2021:1818-1825. doi: 10.1109/bibm52615.2021.9669748. PMID: 35371617; PMCID: PMC8972912.
14. Kalenderian E, Hebballi NB, Franklin A, Yansane A, Ibarra Noriega AM, White J, **Walji MF**. Development of a Quality Improvement Dental Chart Review Training Program. *J Patient Saf*. 2022 Jan 21. doi: 10.1097/PTS.0000000000000965. Epub ahead of print. PMID: 35067625.
15. **Walji MF**, Spallek H, Kookal KK, Barrow J, Magnuson B, Tiwari T, Oyoyo U, Brandt M, Howe BJ, Anderson GC, White JM, Kalenderian E. BigMouth: development and maintenance of a successful dental data repository. *J Am Med Inform Assoc*. 2022 Mar 15;29(4):701-706. doi: 10.1093/jamia/ocac001. PMID: 35066586; PMCID: PMC8922177.
16. Bangar S, Neumann A, White JM, Yansane A, Johnson TR, Olson GW, Kumar SV, Kookal KK, Kim A, Obadan-Udoh E, Mertz E, Simmons K, Mullins J, Brandon R, **Walji MF**, Kalenderian E. Caries Risk Documentation And Prevention: eMeasures For Dental Electronic Health Records. *Appl Clin Inform*. 2022 Jan;13(1):80-90. doi: 10.1055/s-0041-1740920. Epub 2022 Jan 19. PMID: 35045582; PMCID: PMC8769809.

Muhammad F Walji, Curriculum Vitae

17. Lee CT, Kabir T, Nelson J, Sheng S, Meng HW, Van Dyke TE, **Walji MF**, Jiang X, Shams S. Use of the deep learning approach to measure alveolar bone level. *J Clin Periodontol*. 2022 Mar;49(3):260-269. doi: 10.1111/jcpe.13574. Epub 2021 Dec 31. PMID: 34879437; PMCID: PMC9026777.
18. Kabir T, Lee C-T, Nelson J, Sheng S, Meng H-W, Chen L, **Walji MF**, Jiang X, Shams S. An End-to-end Entangled Segmentation and Classification Convolutional Neural Network for Periodontitis Stage Grading from Periapical Radiographic Images. *IEEE International Conference on Bioinformatics and Biomedicine 2021 (BIBM) [Internet] 2021*.
19. Mullins J, Yansane A, Kumar SV, Bangar S, Neumann A, Johnson TR, Olson GW, Kookal KK, Sedlock E, Kim A, Mertz E, Brandon R, Simmons K, White JM, Kalenderian E, **Walji MF**. Assessing the completeness of periodontal disease documentation in the EHR: a first step in measuring the quality of care. *BMC Oral Health*. 2021 May 29;21(1):282. doi: 10.1186/s12903-021-01633-w. PMID: 34051781; PMCID: PMC8164293.
20. Kumar SV, Yansane A, Neumann A, Johnson TR, Olson GW, Bangar S, Kookal KK, Kim A, Obadan-Udoh E, Mertz E, Simmons K, Mullins J, White JM, Kalenderian E, **Walji MF**. Measuring sealant placement in children at the dental practice level. *J Am Dent Assoc*. 2020 Oct;151(10):745-754. doi: 10.1016/j.adaj.2020.06.015. PMID: 32979953; PMCID: PMC8259312.
21. Chien YC, Seferovic D, Holland JN, **Walji MF**, Adibi SS. When should sleep bruxism be considered in the diagnosis of temporomandibular disorders? *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2020 Dec;130(6):645-650. doi: 10.1016/j.oooo.2020.08.029. Epub 2020 Aug 29. PMID: 33032938.
22. Yansane A, Listl S, Dawda D, Brandon R, White J, Spallek H, **Walji MF**, Kalenderian E. Increasing value, reducing waste: tailoring the application of dental sealants according to individual caries risk. *J Public Health Dent*. 2020 Sep 9. doi: 10.1111/jphd.12396. Online ahead of print.
23. Glick A, Kookal KK, **Walji MF**, Saeed SG. Prioritizing patient care during the COVID-19 pandemic: A data-driven approach. *J Dent Educ*. 2020 Aug 4;10.1002/jdd.12361. doi: 10.1002/jdd.12361. Online ahead of print.
24. Dragan IF, **Walji M**, Vervoorn M, Quinn B, Johnson L, Davis J, Garcia LT, Valachovic RW. ADEA-ADEE Shaping the Future of Dental Education III: The impact of scientific technologies and discoveries on oral health globally. *J Dent Educ*. 2020 Jan;84(1):111-116. doi: 10.1002/jdd.12027.
25. Yansane A, Tokede O, **Walji M**, Obadan-Udoh E, Riedy C, White J, Kalenderian E. Burnout, Engagement, and Dental Errors Among U.S.

Muhammad F Walji, Curriculum Vitae

Dentists. J Patient Saf. 2020 Apr 3. doi: 10.1097/PTS.0000000000000673.
Online ahead of print.

26. Messing M, Souza LC, Cavalla F, Kookal KK, Rizzo G, **Walji M**, Silva R, Letra A. Investigating Potential Correlations between Endodontic Pathology and Cardiovascular Diseases Using Epidemiological and Genetic Approaches. *J Endod*. 2019 Feb;45(2):104-110. doi: 10.1016/j.joen.2018.10.014. Epub 2019 Jan 17.
27. Neumann A, Obadan-Udoh E, Bangar S, Kumar SV, Tokede O, Kim A, Yansane A, Mertz E, Panwar S, Gharpure A, Kookal K, Mullins J, Even J, Simmons K, White J, **Walji MF**, Kalenderian K. Number of Pregnant Women at Four Dental Clinics and the Care They Received: A Dental Quality eMeasure Evaluation. *Journal of Dental Education*. 2019;83(10):1158-65.
28. Yansane, A., Tokede O, White J, Etolue J, McClellan L, **Walji M**, Obadan-Udoh E, Kalenderian E. "Utilization and Validity of the Dental Diagnostic System over Time in Academic and Private Practice." *JDR Clin Trans Res* 4, no. 2 (Apr 2019): 143-50.
29. Calvo JM, Obadan-Udoh E, **Walji M**, Kalenderian E. Adverse Events in Pediatric Dentistry: An Exploratory Study. *Pediatr Dent*. 2019 Nov 15;41(6):455-467.
30. Simon L, Obadan-Udoh E, Yansane AI, Gharpure A, Licht S, Calvo J, J. Deschner J, Damanaki A, Hackenberg B, **Walji M**, Spallek H, Kalenderian K. Improving Oral-Systemic Healthcare through the Interoperability of Electronic Medical and Dental Records: An Exploratory Study. *Appl Clin Inform*. 2019;10(3):367-76.
31. Obadan-Udoh, E. M., Calvo J. M., Panwar S., Simmons K., White J. M., **Walji MF**, Kalenderian E. Unintended consequences and challenges of quality measurements in dentistry. *BMC Oral Health*, 19: 38. 2019.
32. Messing, M., Souza L. C., Cavalla F., Kookal K. K., Rizzo G., **Walji M.**, Silva R., Letra A. Investigating Potential Correlations between Endodontic Pathology and Cardiovascular Diseases Using Epidemiological and Genetic Approaches. *J Endod*, 45: 104-10. 2019.
33. Neumann, A., Kumar S., Bangar S., Kookal K. K., Spallek H., Tokede O., Simmons K., Even J. Mullins, J., Mertz E., Yansane A., Obadan-Udoh E., White J., **Walji M.**, Kalenderian E. Tobacco screening and cessation efforts by dental providers: A quality measure evaluation. *J Public Health Dent*. 2018.

Muhammad F Walji, Curriculum Vitae

34. Kumar, S.V., Bangar, S., Neumann, A., Kookal, K.K., Yansane, A., Tokede, O., Obadan-Udoh, E., Mertz, E., Simmons, K., Even, J., Mullins, J., White, J., Kalenderian, E., **Walji, M.F.** Assessing Validity of Existing Dental Sealant Quality Measures. *J Am Dent Assoc.* 2018 Sep;149(9):756-764.e1. doi: 10.1016/j.adaj.2018.05.001. Epub 2018 Jul 4.
35. Kalenderian, E., Obadan-Udoh, E., Yansane, A., Kent, K., Hebballi, N.B., Delattre, V., Kookal, K.K., Tokede, O., White, J. and **Walji, M.F.**, 2018. Feasibility of Electronic Health Record–Based Triggers in Detecting Dental Adverse Events. *Applied clinical informatics*, 9(03), pp.646-653. 2018.
36. Kalenderian E, Ramoni R, Spallek H, White J, **Walji M.** Quality measures everywhere: The case for parsimony. *J Am Dent Assoc.* 2018 Apr;149(4):322-326.
37. Nikdel C, Nikdel K, Ibarra-Noriega A, Kalenderian E, **Walji MF.** Clinical Dental Faculty Members' Perceptions of Diagnostic Errors and How to Avoid Them. *J Dent Educ.* 2018 Apr;82(4):340-348.
38. **Walji MF**, Karimbux NY, Spielman AI. Person-Centered Care: Opportunities and Challenges for Academic Dental Institutions and Programs. *J Dent Educ* 2017;81(11):1265-72.
39. Kalenderian*, E., Obadan-Udoh*, E., Maramaldi, P., Etolue, J., Yansane, A., Stewart, D., White, J., Vaderhobli, R., Kent, K., Hebballi, N.B., Delattre, V., Kahn, M., Tokede, O., Ramoni, R.B., **Walji, M.F.** Classifying Adverse Events in the Dental Office. *J Patient Safety.* 2017 Jun 30.
40. Tokede O, **Walji M**, Ramoni R, Rindal DB, Worley D, Hebballi N, Kumar K, van Strien C, Chen M, Navat-Pelli S, Liu H, Etolue J, Yansane A, Obadan-Udoh E, Easterday C, Enstad C, Kane S, Rush W, Kalenderian E. Quantifying Dental Office-Originating Adverse Events: The Dental Practice Study Methods. *Journal of Patient Safety.* 2017 Dec 5. PMID: 29206706.
41. Palatta AM, Kassebaum DK, Gadbury-Amyot CC, Karimbux NY, Licari FW, Nadershahi NA, **Walji MF**, Stewart JCB, Valachovic RW: Change Is Here: ADEA CCI 2.0-A Learning Community for the Advancement of Dental Education. *J Dent Educ* 2017, 81(6):640-648.
42. Neumann* A, Kalenderian* E, Ramoni R, Yansane A, Tokede B, Etoule J, Vaderhobli R, Simmons K, Even J, Mullins J, Kumar S, Bangar S, Kookal K, White J, **Walji M.** Evaluating quality of dental care among patients with diabetes. *The Journal of the American Dental Association.* 10.1016/j.adaj.2017.04.017

Muhammad F Walji, Curriculum Vitae

43. White, J.M., Jenson, L., Gansky, L., Walsh, C., Accurso, B., Vaderhobli, R., Kalenderian, E., **Walji, M.F.**, Cheng, J. Dental Student Clinical Experience Across Three Curricula at One Institution. *J Dent Educ.* 2017 Apr;81(4):366-377
44. Ramoni, R.B., Etolue, J., Tokede, O., McClellan, L., Simmons, K., Yansane, A., White, J.M., **Walji, M.F.**, Kalenderian, E. Adoption of dental innovations: The Case of a Standardized Dental Diagnostic Terminology. *JADA* 3/20/2017 published online ahead of print; doi:10.1016/j.adaj.2017.01.024
45. Obadan-Udoh E, Simon L, Etolue J, Tokede O, White J, Spallek H, **Walji M**, Kalenderian E. Dental Providers' Perspectives on Diagnosis-Driven Dentistry: Strategies to Enhance Adoption of Dental Diagnostic Terminology. *Int J Environ Res Public Health* 2017;14(7).
46. Adibi SS, Kookal KK, Fishbeck NM, Thompson CR, **Walji MF**. Assessment of Diagnosed Temporomandibular Disorders and Orofacial Pain Conditions by Predoctoral Dental Students: A Pilot Study. *J Dent Educ* 2016 80:1450-1456.
47. Gay IC, Tran DT, Weltman R, Parthasarathy K, Diaz-Rodriguez J, **Walji M**, Fu Y, Friedman L. Role of supportive maintenance therapy on implant survival: a university-based 17 years retrospective analysis. *Int J Dent Hyg.* 2016 Nov;14(4):267-271.
48. Maramaldi P*, **Walji MF***, White J, Etolue J, Kahn M, Vaderhobli R, Kwatra J, Delattre VF, Hebballi NB, Stewart D, Kent K, Yansane A, Ramoni RB, Kalenderian E. How dental team members describe adverse events. *Journal of the American Dental Association.* 2016 Jun 3. pii: S0002-8177(16)30371-3. doi: 10.1016/j.adaj.2016.04.015.
49. Kalenderian, E., Maramaldi, P., Kim, S., Etolue, J., McClellan, L., Simmons, K., Yansane, A., White, J.M., **Walji, M.F.**, Ramoni, R.B. Strategic Shift to a Diagnostic Model of Care in a Multi-Site Group Dental Practice. *Int J Dent Oral Health* 2016; 2(4):doi<http://dx.doi.org/10.16966/2378-7090.209>
50. Ramoni RB, Asher SR, White JM, Vaderhobli R, Ogunbodede EO, **Walji MF**, Riedy C, Kalenderian E. Honoring Dental Patients' Privacy Rule Right of Access in the Context of Electronic Health Records. *J Dent Educ.* 2016 Jun;80(6):691-6.
51. Bhardwaj A*, Ramoni R*, Kalenderian K*, Neumann A, Hebballi N, White JM, McClellan L, **Walji MF**. Measuring Up: Implementing a Dental Quality Measure in the Electronic Health Record Context. *Journal of the American Dental Association.* 2016;147(1):35-40.
52. Tran DT, Gay IC, Du XL, Fu Y, Bebermeyer RD, Neumann AS, Streckfus CF,

Muhammad F Walji, Curriculum Vitae

Chan W, **Walji MF**. Partial□mouth periodontal examination protocol for estimating periodontitis extent and severity in a US population. *Clinical and Experimental Dental Research*. 2016;2(1):73-9.

53. Gay IC, Tran DT, Weltman R, Parthasarathy K, Diaz-Rodriguez J, **Walji MF**, Fu Y, Friedman L. Role of supportive maintenance therapy on implant survival: a university-based 17 years retrospective analysis. *Int J Dent Hyg*. 2015 Dec 22. doi: 10.1111/idh.12188.
54. Kalenderian E, Tokede B, Ramoni R, Khan M, Kimmes N, White J, Vaderhobli R, Yansane A, Feilzer A, **Walji MF**. Dental clinical research: an illustration of the value of standardized diagnostic terms. *Journal of Public Health Dentistry*. 2015. Oct 30. doi: 10.1111/jphd.12124.
55. Reed SG, Adibi S, Coover M, Gellin RG, Wahlquist AE, AbdulRahiman, A, Hamil LH, **Walji MF**, O'Neill P, Kalenderian E. Does use of an electronic health record with dental diagnostic system terminology promote dental students' critical thinking? *Journal of Dental Education*. 2015;79(6):686-96.
56. Ramoni RB, **Walji MF**, Kim S, Tokede O, McClellan L, Simmons K, Skourtes E, Yansane A, White JM, Kalenderian E. Attitudes toward and beliefs about the use of a dental diagnostic terminology: A survey of dental care providers in a dental practice. *Journal of the American Dental Association*. 2015;146(6):390-7.
57. Hebballi NB, Ramoni R, Kalenderian E, Delattre VF, Stewart DCL, Kent K, White JM, Vaderhobli R, **Walji MF**. The dangers of dental devices as reported in the Food and Drug Administration Manufacturer and User Facility Device Experience Database. *The Journal of the American Dental Association*. 2015. 146(2):102-10.
58. Zhang Z, Franklin A, **Walji M**, Zhang J, Gong Y. Developing Analytical Inspection Criteria for Health IT Personnel with Minimum Training in Cognitive Ergonomics: A Practical Solution to EHR Improving EHR Usability. *Proc AMIA Symp 2014*.1277-85.
59. Valenza, J, Taylor, D., **Walji, M.F.**, Johnson, C. Assessing the Benefit of a Personalized EHR-Generated Informed Consent in a Dental School Setting. *Journal of Dental Education*. 2014 Aug;78(8):1182-93.
60. **Walji MF***, Kalenderian E*, Stark P, White J, Kookal K, Phan D, Tran D, Bernstam E, Ramoni R. BigMouth: A Multi-Institutional Dental Data Repository. *Journal of the American Medical Informatics Association*. 2014 Jul 3. pii: amiajnl-2013-002230. doi: 10.1136/amiajnl-2013-002230.

Muhammad F Walji, Curriculum Vitae

61. Tran DT, Gay I, Du XL, Fu Y, Bebermeyer RD, Neumann AS, Streckfus C, Chan W, **Walji MF**. Assessment of partial-mouth periodontal examination protocols for periodontitis surveillance. *Journal of Clinical Periodontology*. 2014: DOI: 10.1111/jcpe.12285.
62. Ramoni, R.*, **Walji, M.F.***, Tavares, A., White, J.M., Tokede, O., Vaderhobli, R., Kalenderian, E. Open wide: Looking into the Safety Culture of the Dental Practice. *J Dent Educ*. 2014 78(5):745-756 PMID: 24789834
63. **Walji MF***, Kalenderian E*, Piotrowski M, Tran D, Kookal KK, Tokede O, White JM, Vaderhobli R, Ramoni R, Stark PC, Kimmes NS, Lagerweij M, Patel VL. Are three methods better than one? A comparative assessment of usability evaluation methods in an EHR. *Int J Med Inform*. 2014 Feb 3. pii: S1386-5056(14)00023-9. doi: 10.1016/j.ijmedinf.2014.01.010.
64. Tran DT, Gay I, Du XL, Fu Y, Bebermeyer RD, Neumann AS, Streckfus C, Chan W, **Walji MF**. Assessing periodontitis in populations: a systematic review of the validity of partial-mouth examination protocols. *J Clin Periodontol*. 2013 Dec;40(12):1064-71.
65. Kalenderian, E., **Walji, M.F.**, Tavares, A., Ramoni, R. Adverse Event Trigger Tool in Dentistry: A New Methodology for Measuring Harm in the Dental Office. *J Am Dent Assoc*. 2013 Jul;144(7):808-14.
66. Kalenderian, E., **Walji, M.F.**, Ramoni, R. "Meaningful use" of EHR in dental school clinics: how to benefit from the U.S. HITECH Act's financial and quality improvement incentives. *Journal of Dental Education*. 2013 Apr;77(4):401-15.
67. Tokede, O., White, J.M., Stark, P.C., Vaderhobli, R., **Walji, M.F.**, Ramoni, R., Schoonheim-Klein, M.E., Kimmes, N.S., Tavares, A., Kalenderian, E. Assessing the use of a standardized dental diagnostic terminology in an electronic health record. *J Dent Educ*. 2013 Jan;77(1):24-36.
68. Tokede, O., **Walji, M.F.**, Ramoni, R., Schoonheim-Klein, M.E., White, J.M., Vaderhobli, R., Stark, P.C., Kimmes, N.S., Patel, V., Kalenderian, E. Treatment planning in dentistry using an electronic health record: implications for undergraduate education. *European Journal of Dental Education*. 2013 Feb;17(1):e34-43.
69. Ramoni RB, **Walji MF**, White J, Stewart D, Vaderhobli R, Simmons D, Kalenderian, E. From good to better: Toward a patient safety initiative in dentistry. *J Am Dent Assoc*. 2012 Sep;143(9):956-60.
70. **Walji, M.F.**, Kalenderian, E., Tran, D., Kookal, K.K., Nguyen, V., Tokede, O., White J.M., Vaderhobli, R., Ramoni, R., Stark, P.C., Kimmes N.S., Schoonheim-Klein M.E., and Patel, V. Detection and characterization of

Muhammad F Walji, Curriculum Vitae

usability problems in structured data entry interfaces in dentistry. *International Journal of Medical Informatics*. 2012 Jun 29.

71. Zhang J, **Walji M**. TURF: Toward a Unified Framework of EHR Usability. *Journal of Biomedical Informatics*. 2011, doi:10.1016/j.jbi.2011.08.00.
72. Longoria JM, English J, O'Neill PN, Tan Q, Velasquez G, **Walji M**. Factors involved in choosing an orthodontist in a competitive market. *J Clin Orthod*. 2011 Jun;45(6):333-7.
73. White, J.M., Kalenderian, E., Stark, P.C., Ramoni, R., Vanderhobli, R., **Walji, M.F.** Evaluating a Dental Diagnostic Terminology in an Electronic Health Record. *Journal of Dental Education*. 2011.75(5): 605-615.
74. Kalenderian, E., Ramoni, R., White, J.M., Schoonheim-Klein, M.E., Stark, P.C., Kimmes, N.S., Zeller, G.G., Willis, G.P., **Walji, M.F.** The Development of a Dental Diagnostic Terminology. *Journal of Dental Education*. 2011.75(1): 68-76.
75. Stark, P., Kalenderian, E., White, J., **Walji, M.F.**, Stewart, D., Kimmes, N., Meng, T., Willis, G., DeVries, T., Chapman, R. Consortium for Oral Health Related Informatics: Improving Dental Research, Education and Treatment. *Journal of Dental Education*. 2010. 74(10): 1051-1065.
76. Glick, A., Taylor, D., Valenza, J., **Walji, M.F.** Assessing the Content, Presentation, and Readability of Dental Informed Consents. *Journal of Dental Education*. 2010 Aug;74(8):849-61.
77. Saitwal, H. Feng, X., **Walji, M.**, Patel, V., Zhang, J. Assessing Performance of an Electronic Health Record (EHR) Using Cognitive Task Analysis. *Int J Med Inform*. 2010 Jul;79(7):501-6. Epub 2010 May 7.
78. Zhang, Z., **Walji, MF.**, Patel, V., Gimbel, RW., Zhang, J. Functional Analysis of Interfaces in U.S. Military Electronic Health Record System using UFuRT Framework. *Proc AMIA Symp* 2009: 730-734.
79. **Walji, M.**, Taylor, D., Langabeer, J., Valenza, J. Factors Influencing Implementation and Outcomes of a Dental Electronic Patient Record. *J Dent Educ*. 2009 May;73(5):589-600.
80. Langabeer, J., **Walji, M.**, Taylor, D., Valenza, J. Economic Outcomes of a Dental Electronic Patient Record. *J Dent Educ*. 2008 Oct;72(10):1189-200.
81. Bernstam EV, **Walji MF**, Sagaram S, Sagaram D, Johnson CW, Meric-Bernstam F. Commonly cited Web site quality criteria are not effective at identifying inaccurate online information about breast cancer. *Cancer*. 2008 September 2023

Muhammad F Walji, Curriculum Vitae

Mar 15;112(6):1206-13.

82. **Walji MF**, Zhang J. Human-centered Design of Persuasive Appointment Reminders. Proceedings of the 41st Annual Hawaii International Conference on System Sciences (CD-ROM), January/2008, Computer Society Press, 2008 (10 pages).
83. Meric-Bernstam F, **Walji M**, Sagaram S, Sagaram D, Bernstam E. Currency of online breast cancer information. *Medinfo*. 2007;12(Pt 2):973-6.
84. Ghoshal M, **Walji M**. Quality of medication information available on retail pharmacy Web sites. *Res Social Adm Pharm*. 2006 Dec;2(4):479-98.
85. **Walji M**, Sagaram S, Meric-Bernstam F, Johnson C, Bernstam E. Searching for cancer-related information online: Unintended retrieval of complementary and alternative medicine information. *Int J Med Inform*. 2005 Aug;74(7-8):685-93.
86. Bernstam E, Sagaram S, **Walji M**, Johnson C, Meric-Bernstam F. Usability of quality measures for online health information: Can commonly used technical quality criteria be reliably assessed? *Int J Med Inform*. 2005 Aug;74(7-8):675-83.
87. Bernstam EV, Shelton DM, **Walji M**, Meric-Bernstam F. Instruments to assess the quality of health information on the World Wide Web: what can our patients actually use? *Int J Med Inform* 2005;74(1):13-9.
88. Rinkus S, **Walji M**, Johnson-Throop KA, Malin JT, Turley JP, Smith JW, et al. Human-centered design of a distributed knowledge management system. *J Biomed Inform* 2005;38(1):4-17.
89. **Walji M**, Sagaram S, Sagaram D, Meric-Bernstam F, Johnson C, Mirza NQ, Bernstam EV. Efficacy of Quality Criteria to Identify Potentially Harmful Information: A Cross-sectional Survey of Complementary and Alternative Medicine Web Sites. *Journal of Medical Internet Research* 2004;6(2):e21.
90. Sagaram S, **Walji M**, Meric-Bernstam F, Johnson C, Bernstam E. Inter-observer Agreement for Quality Measures Applied to Online Health Information. *Medinfo* 2004;2004:1308-12.
91. **Walji M**, Sagaram S, Meric-Bernstam F, Johnson C, Bernstam E. Cancer-related Complementary and Alternative Medicine Online: Factors Affecting Information Retrieval. *Medinfo* 2004;2004:1318-22.
92. Brixey, J.J., **Walji, M.**, Zhang, J., Johnson, T.R., & Turley, J. P. Proposing a Taxonomy and Model of Interruption. The 6th International Workshop on

Muhammad F Walji, Curriculum Vitae

Enterprise Networking and Computing in Healthcare Industry "Healthcom 2004". 2004 June 28-29, Odawara, Japan.

93. **Walji M**, Brixey J, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions. 26th Annual Meeting of the Cognitive Science Society. 2004 Aug 5-7, Chicago.
94. Sagaram S, **Walji M**, Bernstam E. Evaluating the prevalence, content and readability of complementary and alternative medicine (CAM) web pages on the internet. Proc AMIA Symp. 2002;;672-6.

c. Books

1. Zhang J, **Walji M**, editors. Better EHR. Usability, workflow & cognitive support in electronic health records. First ed: National Center for Cognitive Informatics and Decision Making in Healthcare; 2014.

d. Book chapters

1. Cederberg R, **Walji M**, Valenza J. "Electronic Health Records in Dentistry: Clinical Challenges and Ethical Issues". In *TELEDENTISTRY*, edited by Sajeesh Kumar. London: Springer, 2014. In Press.
2. **Walji, MF**. "Integration of Patient Records and Clinical Research: Lack of Integration as a Barrier to Needed Research; Integration as a Prerequisite to Research." In *Integration of Medical and Dental Care and Patient Data*, edited by F Din, A Acharya and M Torres-Urquidy. Health Informatics. London: Springer, 2012.
3. **Walji, M.**, Valenza, J. A., & Zhang, J. (2008). E-health marketing. In E. V. Wilson: Patient-centered e-health. Hershey, PA: IGI Global.

e. Other professional communications

1. Kalenderian E, Xiao Y, Spallek H, Franklin A, Olsen G, **Walji MF**. COVID-19 and Dentistry: Challenges and Opportunities for Providing Safe Care. AHRQ Patient Safety Network (PSNet). 2020 Aug. Updated 2022 Feb. <https://psnet.ahrq.gov/primer/covid-19-and-dentistry-challenges-and-opportunities-providing-safe-care>
2. **Walji MF**. Electronic Health Records and Data Quality. J Dent Educ. 2019;83(3):263-4.
3. **Walji MF**, Kumar SV, Bangar S, Neumann A, Kookal KK, Yansane A, Tokede O, Obadan-Udoh E, Mertz E, Simmons K, Even J, Mullins J, White J, Kalenderian E. Authors' response. J Am Dent Assoc. 2019;150(1):5-6.

Muhammad F Walji, Curriculum Vitae

4. Ramoni R, **Walji MF**, Kalenderian E. Safety in Dentistry. AHRQ Patient Safety Network (PSNet). 2016 Aug. <https://psnet.ahrq.gov/perspective/safety-dentistry>
5. Adibi SS, Chaluparambil J, Chambers SK, Estes K, Valenza JA, **Walji MF**. Assessing the delivery of comprehensive care at a dental school. *Tex Dent J*. 2012 Dec;129(12):1267-75.
6. Flaitz CM, Carlin N, Shepherd BW, McWherter JA, Bebermeyer RD, **Walji MF**, Spike J. The journey beyond silos. Teaching and learning interprofessional ethics at UTHealth. *Tex Dent J*. 2011 Aug;128(8):716-26.
7. Kalenderian E, Ramoni RB, White JM, Schoonheim-Klein ME, Stark PC, Kimmes NS, Patel VL, **Walji MF**. The importance of using diagnostic codes. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. 2011 Jul;112(1):4-5; author reply 5.
8. **Walji M**. E-Oral Health. *Access Magazine*. December 2009 (invited article)
9. Valenza JA, **Walji MF**, Taylor D, Estes K. Innovation in dental education in Texas: The University of Texas Dental Branch at Houston. *Tex Dent J*. 2009 Aug;126(8):680-92. (invited article)
10. **Walji M**. Does the Message Matter? Enhancing Patient Adherence through Persuasive Messages. Doctoral Dissertation. School of Health Information Sciences, University of Texas Health Science Center. Dec 2006.
11. **Walji M**, Li H. The Role of Health Informatics in Clinical Trials. Masters Thesis. School of Health Information Sciences, University of Texas Health Science Center. Dec 2002.