



## PROF. MADYA DR. AZRUL HAFIZ BIN ABDUL AZIZ

PENSYARAH PERGIGIAN DUG15

### CONTACT

**Phone:** 42892592

**E-mail:**  
afizz80@usim.edu.my

**Faculty:** Fakulti Pergigian

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0,  
Ongoing: 0

## AREAS OF EXPERTISE

Orthodontics

## ACADEMIC QUALIFICATION

Master in Orthodontics (2011)

Sarjana Kepekaran in Orthodontics (2011)

Bachelor in Pergigian (2004)

## RESEARCH

**1. A TWO-PHASE COMPARATIVE STUDY ON THE FITTING ACCURACY AND PATIENT ACCEPTANCE OF 3D-PRINTED ORTHODONTIC RETAINERS WITH VARYING OCCLUSAL SURFACE COVERAGE DESIGNS COMPARED TO CONVENTIONAL VACUUM-FORMED RETAINERS**

2026 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
CO-RESEARCHER

**2. IN VIVO EVALUATION ORAL MICROBIOME ON 3D-PRINTED ORTHODONTIC RETAINER VS VACUUM FORMED RETAINER**

2026 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
MAIN RESEARCHER

**3. COLOUR STAINING ON 3D-PRINTED RETAINERS VERSUS VACUUM-FORMED ALIGNERS**

2025 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
MAIN RESEARCHER

**4. THE COMPARISON OF ACCURACY BETWEEN INTRA-ORAL SCANNERS (DIGITAL STUDY MODEL) AND CONVENTIONAL STUDY MODEL**

2024 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
CO-RESEARCHER

## 5. THE MECHANICAL PROPERTIES OF A 3D PRINTED RETAINER AND A CONVENTIONAL VACUUM-THERMOFORMED RETAINER BEFORE AND AFTER THERMOCYCLING

2024

GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ)

ON GOING

CO-RESEARCHER

# RESEARCH

---

## 6. THE DEVELOPMENT AND FITTING ACCURACY OF 3D PRINTED RETAINER AND VACUUM FORMED RETAINER

2023 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING MAIN RESEARCHER

## 7. DIFFERENCES IN SKELETAL AGE, DENTAL AGE, AND DURATION OF GROWTH SPURT BASED ON CHRONOLOGICAL AGE AND GENDER TYPES BETWEEN INDONESIA AND MALAYSIA POPULATIONS

2021 BIDUNI MIZANNIYAH COMPLETED CO-RESEARCHER

## 8. THE EFFECTIVENESS OF ONLINE CLASSES DURING COVID-19 PANDEMIC

2021 BIDUNI MIZANNIYAH COMPLETED MAIN RESEARCHER

## 9. DEVELOPMENT OF ONLINE ORTHODONTIC SCREENING FOR TREATMENT AND EDUCATION

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED MAIN RESEARCHER

## 10. AN ASSESSMENT OF PATIENT'S COMPLIANCE IN WEARING REMOABLE ORTHODONTIC APPLIANCE

2019 GERAN PENYELIDIKAN KHAS COMPLETED MAIN RESEARCHER

## 11. KNOWLEDGE, ATTITUDE AND PRACTICES TOWARDS HAND, FOOT AND MOUTH DISEASE (HFMD) AMONG DENTAL COMMUNITY IN UNIVERSITI SAINS ISLAM MALAYSIA (USIM)

2018 PENYELIDIKAN TANPA BIAYA COMPLETED CO-RESEARCHER

## 12. THE EFFECT OF TUNGSTEN CARBIDE BUR ON ENAMEL SURFACE AFTER DEBONDING ORTHODONTIC BRACKETS.

2017 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 13. INDEKS SYARIAH MALAYSIA (FASA 2)

2016 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

## 14. A STUDY ON THE EFFICACY OF TWO TYPES OF MANUAL TOOTHBRUSHES IN PATIENTS WITH FIXED APPLIANCES

2016 GERAN JANGKA PENDEK FASA 1 COMPLETED CO-RESEARCHER

## 15. THE PSYCHOCIAL IMPACT OF DENTAL AESTHETICS ON PATIENTS WHO REQUIRE ORTHODONTICS TREATMENT IN USIM DENTAL CLINIC

2016 GERAN JANGKA PENDEK FASA 1 COMPLETED MAIN RESEARCHER

## 16. MENILAI KEBERKESANAN USAHA KERAJAAN DALAM MELAKSANAKAN MAQASI SYARIAH UNTUK PROGRAM BERKAITAN KESIHATAN DI NEGERI SEMBILAN, SELANGOR DAN WILAYAH PERSEKUTUAN

2015 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

## 17. THE RELATIOSHIP BETWEEN THE SKELETAL AGE AND THE CHORONOLOGICAL AGE AMONG PATIENTS ATTENDING ORTHODONTIC CLINIC OF FACULTY OF DENTISTRY, USIM

2014 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED CO-RESEARCHER

## 18. RAPID METHOD FOR DETECTION OF ETHANOL CONTENT IN MOUTHWASH USING LOCALLY FABRICATED PORTABLE ELECTRONIC NOSE

2013 GERAN KPT COMPLETED CO-RESEARCHER

## 19. HALAL AUTHENTICATION OF ORTHODONTICS DENTAL MATERIALS USING RAPID FOURIER INFRARED SPECTROSCOPY (FTIR) METHOD

2013 GERAN KPT COMPLETED MAIN RESEARCHER

## 20. ASSESSMENT OF FAILURE RATE BETWEEN MOLAR BANDS, BONDABLE TUBES AND BONDABLE TUBES WITH FLOWABLE COMPOSITE

2013 GERAN KPT COMPLETED MAIN RESEARCHER

# PUBLICATION

---

## 1. THE COMPARISON OF ACCURACY BETWEEN INTRA-ORAL SCANNERS (DIGITAL STUDY MODEL) AND CONVENTIONAL STUDY MODEL

11TH DENTAL STUDENTS' COLLOQUIUM

2025 PROCEEDING NON-INDEX CO-AUTHOR

## 2. DIGITAL STUDY MODEL VERSUS CONVENTIONAL STUDY MODEL: A COMPARISON ON ACCURACY

31ST MALAYSIAN ASSOCIATION OF ORTHODONTISTS INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 3. COMPARATIVE ANALYSIS OF THE FITTING ACCURACY BETWEEN 3D PRINTED AND VACUUM-FORMED RETAINERS

THE 4TH IDENT 2025

2025 PROCEEDING MYCITE CO-AUTHOR

## 4. THE DENTAL STUDENTS PERCEPTION ON ONLINE CLASSES

ANNALS OF DENTISTRY UNIVERSITY OF MALAYA

2024 JOURNAL OTHER DATABASE MAIN AUTHOR

## 5. OPTIMAL DOSE OF 5-FLUOROURACIL IN INDUCING ORAL MUCOSITIS IN RATS

DENTIKA DENTAL JOURNAL

2024 JOURNAL OTHER DATABASE CO-AUTHOR

## 6. THE FITTING ACCURACY OF 3D PRINTED RETAINER VS VACUUM-FORMED RETAINER

10TH USIM DENTAL STUDENTS' COLLOQUIUM

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 7. PRINTED 3D RETAINER VS VACUUM-FORMED RETAINER

30TH MALAYSIAN ASSOCIATION OF ORTHODONTISTS INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 8. DESCRIPTION OF POLY(ARYL-ETHER-KETONE) MATERIALS (PAEKs), POLYETHERETHERKETONE (PEEK) AND POLYETHERKETONEKETONE (PEKK) FOR APPLICATION AS A DENTAL MATERIAL: A MATERIALS SCIENCE REVIEW

POLYMERS

2023 JOURNAL ERA CO-AUTHOR

## 9. DENTOALVEOLAR AND SOFT TISSUE COMPENSATION IN CLASS III MALOCCLUSION

INTERNATIONAL MEDICAL JOURNAL

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 10. SPONTANEOUS SEQUESTRATION ON ORAL MUCOSA ASSOCIATED WITH REMOVABLE RETAINER

JOURNAL OF OROFACIAL AND HEALTH SCIENCES

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

## 11. THE PERCEPTION OF STUDENT ON ONLINE CLASSES

THE 29TH MALAYSIA ASSOCIATION OF ORTHODONTIST INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 12. RAWATAN PERGIGIAN PEDIATRIK DAN ORTODONTIK

2023 BOOK EDITOR

## 13. RAWATAN PEMBEDAHAN PERGIGIAN DAN PENYAKIT DALAM MULUT

2023 BOOK CO-AUTHOR & CO-EDITOR

# PUBLICATION

---

## 14. CABUTAN GIGI

RAWATAN PEMBEDAHAN PERGIGIAN DAN PENYAKIT DALAM MULUT

2023 CHAPTER IN BOOK CO-AUTHOR & CO-EDITOR

## 15. KEPAKARAN PERGIGIN ORTODONTIK

RAWATAN PERGIGIAN PERGIGIAN PEDIATRIK DAN ORTODONTIK

2023 CHAPTER IN BOOK CORRESPONDING AUTHOR

## 16. PENJAJAR LUTSINAR (ALIGNERS)

RAWATAN PERGIGIAN PEDIATRIK DAN ORTODONTIK

2023 CHAPTER IN BOOK MAIN AUTHOR

## 17. ATTITUDES TOWARD COVID-19 VACCINATION AMONG MALYSIAN RESIDENTS IN THE FIRST HALF OF 2021: AN INTERNET-BASED STUDY

INTERNATIONAL MEDICAL JOURNAL

2022 JOURNAL OTHER DATABASE CO-AUTHOR

## 18. ONLINE ORTHODONTICS SCREENING FOR DENTAL EDUCATION

JOURNAL OF INTERNATIONAL DENTAL AND MEDICAL RESEARCH

2022 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

## 19. THE NEED TO UPDATE THE DENTAL HEALTHCARE COMMUNITY ON HAND, FOOT, AND MOUTH DISEASE

MALYSIAN DENTAL JOURNAL

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 20. PATIENTS PERCEPTION OF PAIN AND DISCOMFORT TOWARDS ORTHODONTIC TREATMENTS

EUROPEAN JOURNAL OF DENTISTRY AND ORAL HEALTH

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 21. PRELIMINARY STUDY ON ONLINE ORTHODONTIC SCREENING APPS

INTERNATIONAL JOURNAL OF MEDICAL SCIENCE AND INNOVATIVE RESEARCH

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 22. PATIENTS COMPLIANCE ON REMOVABLE ORTHODONTIC APPLIANCE

JOURNAL OF MEDICAL AND DENTAL SCIENCE RESEARCH

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 23. MAXILLARY MOLAR ROOT DISPLACEMENT INTO THE MAXILLARY SINUS

MALYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2021 JOURNAL OTHERS DATABASE CO-AUTHOR

## 24. PARADIGM SHIFT IN DENTAL EDUCATION DUE TO COVID-19

MOD RES DENT

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 25. ORTHODONTIC SCREENING USING ONLINE APPLICATION: APRELIMINARY STUDY

28TH OF INTERNATIONAL ASSOCIATION PEDIATRIC DENTIST

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 26. INFORMATION RETENTION IN DIFFERENT METHODS OF ORAL HYGIENE INSTRUCTION DELIVERY AMONG ORTHODONTICS PATIENTS.

INDIAN JOURNAL OF NATURAL SCIENCES

2020 JOURNAL OTHER DATABASE CO-AUTHOR

# PUBLICATION

---

## 27. LOWER INCISOR INCLINATION AND BONY SUPPORT IN CLASS II SKELETAL PATTERN PATIENTS-CBCT STUDY

JOURNAL OF RESEARCH IN MEDICAL AND DENTAL SCIENCE

2020 JOURNAL WOS CO-AUTHOR

## 28. COULD ANTISEPTIC GARGLING PREVENT COVID-19.

TROPICAL BIOMEDICINE

2020 JOURNAL ISI CO-AUTHOR

## 29. THE PSYCHOSOCIAL IMPACT OF DENTAL AESTHETICS ON ORTHODONTICS PATIENTS

JOURNAL OF INTERNATIONAL DENTAL AND MEDICAL RESEARCH

2019 JOURNAL SCOPUS MAIN AUTHOR

## 30. THE IMPACT OF FIXED APPLIANCES (BRACES) ON QUALITY OF LIFE

JOURNAL OF INTERNATIONAL DENTAL AND MEDICAL RESEARCH

2019 JOURNAL SCOPUS MAIN AUTHOR

## 31. DENTOALVEOLAR AND SOFT TISSUE COMPENSATION IN CLASS III PATIENTS ATTENDING USIM POLYCLINIC

MAOSCTE 2019

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 32. ORTODONTIK

GIGI MENURUT PERSPEKTIF ISLAM DAN PERGIAN

2019 CHAPTER IN BOOK MAIN AUTHOR

## 33. THE DEVELOPMENT OF RAPID METHOD FOR DETECTION OF ETHANOL IN MOUTHWASH USING E-NOSE.

CONTEMPORARY MANAGEMENT AND SCIENCE ISSUES IN THE HALAL INDUSTRY

2019 CHAPTER IN BOOK CO-AUTHOR

## 34. NEW WATER IRRIGATOR FOR CLEANING DENTAL PLAQUE

INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH

2018 JOURNAL OTHER DATABASE CO-AUTHOR

## 35. THE IMPACT OF ORTHODONTICS TREATMENT ON QUALITY OF LIFE.

MAOSCTE 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 36. THE PSYCHOSOCIAL IMPACT OF DENTAL MALOCCLUSION ON PATIENTS WHO REQUIRE ORTHODONTIC TREATMENT. 2018

MAOSCTE 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 37. RADIOGRAPH IN ORTHODONTICS

2018 BOOK CO-AUTHOR

## 38. THE DEVELOPMENT AND EVALUATION OF WATER IRRIGATOR FOR PLAQUE REMOVAL.

THE INTERNATIONAL MEDICAL JOURNAL MALAYSIA.

2017 JOURNAL SCOPUS CO-AUTHOR

## 39. THE AUTHENTICATION OF HALAL DENTAL MATERIALS USING RAPID FOURIER TRANSFORM INFRARED (FTIR) SPECTROSCOPY.

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

---

## 40. THE RELATIONSHIP BETWEEN THE SKELETAL AGE AND THE CHRONOLOGICAL AGE AMONG PATIENTS ATTENDING DENTAL CLINIC OF FACULTY OF DENTISTRY, USIM

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS CO-AUTHOR

## 41. THE DEVELOPMENT AND EVALUATION OF WATER IRRIGATOR FOR PLAQUE REMOVAL

1ST IJUM INTERNATIONAL DENTAL CONFERENCE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 42. PSYCHOSOCIAL IMPACT OF DENTAL AESTHETICS AMONG PATIENTS ATTENDING USIM DENTAL CLINIC.

THE INTERNATIONAL JOURNAL OF ORAL HEALTH.

2016 JOURNAL OTHER DATABASE MAIN AUTHOR

## 43. THE USE OF VACUUM FORM RETAINERS FOR RELAPSE CORRECTION.

EUROPEAN INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY.

2016 JOURNAL OTHER DATABASE MAIN AUTHOR

## 44. HALAL AUTHENTICATION OF ORTHODONTIC ADHESIVE MATERIALS USING RAPID FTIR SPECTROSCOPY.

22ND MALAYSIA ASSOCIATION OF ORTHODONTIST INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 45. THE ASSESSMENT OF BOLTON'S DISCREPANCIES AMONG MALAY PATIENTS IN USIM ORTHODONTIC CLINIC

FIQH PERGIGIAN NUSANTARA

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 46. ORTHODONTICS EXAMINATION AND DIAGNOSIS

2016 BOOK MAIN AUTHOR

## 47. WHITE SPOT LESION AMONG PATIENTS ATTENDING USIM ORTHODONTICS CLINIC

INTERNATIONAL DENTAL JOURNAL

2015 JOURNAL WOS MAIN AUTHOR

## 48. COMPARISON OF VISCOSITY AMONG FOUR ORTHODONTIC ADHESIVE PRIMERS IN TWO DIFFERENT TEMPERATURES

JOURNAL OF DENTAL BIOMATERIALS

2015 JOURNAL OTHER DATABASE MAIN AUTHOR

## 49. ASSESSMENT OF FAILURE RATE BETWEEN MOLAR BANDS, BONDABLE TUBES AND BONDABLE TUBES WITH FLOWABLE COMPOSITE

21ST MAO INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2015 PROCEEDING NON-INDEX MAIN AUTHOR

## 50. COMPARISON BETWEEN MOLAR BANDS, BONDABLE TUBES WITH FLOWABLE COMPOSITE

SCIENTIFIC COOPERATION MEDICAL WORKSHOP

2015 PROCEEDING NON-INDEX MAIN AUTHOR

## 51. RAPID METHOD FOR DETECTION OF ETHANOL CONTENT IN MOUTHWASH USING LOCALLY FABRICATED PORTABLE ELECTRONIC NOSE

SCIENTIFIC COOPERATION MEDICAL WORKSHOP

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 52. THE CHANGES IN EATING PATTERN AND WEIGHT OF PATIENTS WEARING FIXED ORTHODONTIC APPLIANCES AT USIM DENTAL CLINIC

21ST MAO INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2015 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

---

## 53. ESTHETIC CONSIDERATION IN CONJUNCTION WITH PERIODONTIC AND ORTHODONTIC APPROACHES IN CLASS III GINGIVAL RECESSION: A CASE REPORT.

WORLD APPLIED SCIENCES JOURNAL

2014 JOURNAL WOS CO-AUTHOR

## 54. REASONS FOR SEEKING ORTHODONTIC TREATMENT AMONG PATIENTS ATTENDING USIM'S DENTAL CLINIC

19TH MAO INTERNATIONAL SCIENTIFIC CONFERENCE AND TRADE EXHIBITION

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 55. ESTHETIC CONSIDERATION IN CONJUNCTION WITH PERIODONTIC AND ORTHODONTIC APPROACHES IN CLASS III GINGIVAL RECESSION

INTERNATIONAL CONFERENCE ON INNOVATION CHALLENGES IN MULTIDISCIPLINARY RESEARCH AND PRACTICE

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 56. RHEOLOGICAL PROPERTIES OF ORTHODONTICS PRIMERS

18TH MAO INTERNATIONAL SCIENTIFIC CONFERENCES AND TRADE EXHIBITION

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## 57. ORAL HYGIENE STATUS AMONG FIRST YEAR DENTAL STUDENTS AT ISLAMIC SCIENCE UNIVERSITY OF MALAYSIA

6TH CONFERENCE OF PEDIATRIC DENTISTRY ASSOCIATION OF ASIA (PDAA) 2008

2008 PROCEEDING NON-INDEX MAIN AUTHOR

## 58. ASSESSMENT OF ORAL HYGIENE OF FIRST YEAR DENTAL STUDENTS USING MODIFIED TURESKY PLAQUE INDEX.

2008 BOOK MAIN AUTHOR

## 59. ERGONOMIC IN DENTAL PRACTICE.

2006 BOOK MAIN AUTHOR

# CONSULTATION

---

## 1. RAWATAN PAKAR ORTHODONTICS

NONE

2018

NATIONAL

## 2. RAWATAN PAKAR ORTHODONTICS

2012

UNIVERSITY

# AWARDS/RECOGNITION

---

## 1. PROLIFIC WRITER OF THE MONTH (POPULAR ARTICLE/PODCAST) FOR JUNE 2025

2025 OTHERS

## 2. PROLIFIC WRITER OF THE MONTH (POPULAR ARTICLE/PODCAST) FOR OCTOBER 2025

2025 OTHERS

## 3. ANUGERAH PERKHIDMATAN SETIA

2023 UNIVERSITY

## 4. POSCARE APP

INOVAS 2022: Human Well-being & Sustainable Community

2022 UNIVERSITI SILVER

## 5. ANUGERAH WRITER OF THE MONTH JULY 2021

2021 UNIVERSITY

## 6. SILVER MEDAL

2021 UNIVERSITY

## 7. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA

2021 STATE

## 8. ANUGERAH WRITER OF THE MONTH (OGOS)

2020 UNIVERSITY

## 9. ACADEMIC ADVISOR

MALAYSIA QUALIFICATION AGENCY

2020 UNIVERSITY

## 10. ANUGERAH WRITER OF THE MONTH JULY

2019 UNIVERSITY

## 11. USIM TOP 100 RESEARCHERS

2018 UNIVERSITY

## 12. TOP 100 RESEARCHERS USIM ( 2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

## 13. ANUGERAH KURSUS AKTIF GOALS 2017

2017 UNIVERSITY

## 14. ANUGERAH PERKHIDMATAN CEMERLANG

2016 UNIVERSITY

# AWARDS/RECOGNITION

---

## 15. STAFF CONTOH BULAN APRIL

2015

OTHERS

## 16. ANUGERAH TERPUJI

2014

UNIVERSITY