

Farrukh Siddiqui, M.D, M.S

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Medical Doctor, Research Consultant

Doctor of Medicine with extensive experience in clinical medicine, including patient diagnosis, lab interpretation, surgical procedures, emergency medicine, and critical case evaluation. Excels in quick decision-making, leadership under pressure, and delivering exceptional patient care. Holds a Professional Science Master's in Cell and Molecular Biology with a focus on Research and Biotechnology, offering expertise in molecular techniques and innovative problem-solving. Renowned for a strong work ethic, organizational excellence, and effective collaboration with multidisciplinary teams. A fast learner dedicated to advancing healthcare and driving scientific innovation in molecular medicine.

WORK EXPERIENCE

Clinical Research Director/Medical Monitor • Full-time

SMS Clinical Research • Dallas • 09/2021 - Present

- Lead major projects ensuring patient safety and protocol adherence for clinical trials.
- Analyze and review scientific data, enhancing data quality and accuracy.
- Manage budgets and negotiate contracts, optimizing resource allocation.
- Oversee site activities and feasibility, ensuring compliance and operational efficiency.
- Collaborate on publications and final reports, contributing to scientific community.
- Lead complex clinical trials, overseeing protocol adherence, data analysis, and patient safety across diverse therapeutic areas including vaccines and oncology.
- Spearhead site feasibility assessments, budget negotiations, and monitor activities, driving efficient study execution and resource optimization.
- Coordinate cross-functional teams for scientific data dissemination, report preparation, and publication development, enhancing research impact.
- Implement rigorous quality control measures, ensuring data integrity and compliance with regulatory standards in high-profile vaccine trials.
- Pioneer innovative approaches in gene therapy and emerging treatment modalities, contributing to groundbreaking advancements in clinical research.
- Proven experience in grant writing, program design, project management, and facilitating meetings.
- Capable of working independently, collaborating within teams, and leading teams effectively.
- Strong team collaboration skills, utilizing efficient group processes to meet program objectives.
- Exceptional verbal and written communication abilities.

Medical Doctor • Part-time

Marham • Virtual • 01/2023 - Present

- Led patient care initiatives, implementing evidence-based practices to enhance treatment outcomes. Collaborated with multidisciplinary teams to deliver comprehensive healthcare solutions.
- Pioneered telemedicine protocols, improving access to medical services for remote patients. Developed streamlined diagnostic processes, reducing wait times and enhancing patient satisfaction.
- Achieved notable improvements in patient recovery rates through personalized treatment plans. Conducted research contributing to advancements in medical protocols and best practices.

- Provided compassionate care to diverse patient populations, ensuring their comfort and well-being. Mentored junior medical staff, fostering a culture of continuous learning and professional growth.
- Analyzed complex medical cases, applying critical thinking to diagnose and treat challenging conditions. Utilized data-driven approaches to optimize patient care strategies and outcomes.
- Optimized telemedicine protocols, enhancing remote patient care efficiency and accessibility while maintaining high-quality diagnostic standards.

Research Consultant/Expert Advisor • Part-time

Guide Point • 12/2023 - Present

- Lead research projects, delivering insights for strategic decisions and improving protocol efficiency.
- Collaborate with teams to optimize research tools, enhancing methodologies and outcomes.
- Analyze complex data, providing critical insights and solving industry challenges.
- Develop software solutions, crafting protocols to advance research applications.
- Drive project success through expert consultation and strategic protocol implementation.
- Shape future research directions by providing expert guidance and innovative problem-solving approaches. Develop pioneering software solutions to address industry needs.

Team Lead Clinical Researcher • Part-time

WCG • Remote • 08/2021 - 07/2023

- Monitored and reported AEs/SAEs in clinical trials, ensuring compliance with regulatory standards.
- Conducted signal detection and risk assessments to identify emerging safety concerns.
- Collaborated with cross-functional teams to integrate safety data into clinical trials.
- Analyzed clinical trial data and real-world evidence to detect safety signals
- Contributed to clinical protocols, Investigator's Brochures, and study reports for safety monitoring.
- Delivered training on safety reporting and pharmacovigilance practices to clinical teams.
- Supported audit readiness for safety and pharmacovigilance activities, addressing findings.
- Conducted thorough safety assessments of clinical trials, identifying potential risks and implementing mitigation strategies to ensure participant well-being.
- Participated in Data Safety Monitoring Board (DSMB) meetings, providing safety insights and recommendations for trial modifications or discontinuation.

Clinical Research Coordinator

University of Chicago Medicine • Chicago • 06/2021 - 09/2021

- Coordinated neurology trials, improving patient recruitment and data accuracy.
- Managed IP dispensing and EDC systems, ensuring compliance and efficient operations.
- Supported neurology surgeon, optimizing device trial protocols and integration.
- Conducted trials with precision, achieving reliable and accurate results.
- Utilized EPIC and REDCap for data management, ensuring seamless study execution.
- Streamlined patient recruitment processes, optimizing study enrollment rates. Contributed to successful execution of ZOLL ReCCLAImm II Reperfusion and Johnson & Johnson device trials.
- Implemented creative solutions to enhance trial efficiency and data accuracy. Adapted quickly to new technologies and methodologies in neurology research coordination.

Clinical Research Coordinator

Chicago Clinical Research Institute • Chicago • 01/2021 - 05/2021

- Coordinated clinical trials, ensuring protocol adherence and patient safety.
- Managed data for vaccine and treatment studies, enhancing accuracy and efficiency.

- Led patient recruitment and maintained comprehensive records for trial integrity.
- Ensured meticulous organization of patient records and study data. Executed precise IP preparation and electronic data capture, maintaining high standards of accuracy in clinical research.
- Fostered seamless teamwork among research staff, coordinating efforts to optimize study execution. Facilitated effective communication between patients, clinicians, and sponsors.
- Streamlined patient recruitment processes, significantly improving enrollment rates. Implemented efficient data management strategies, enhancing overall study productivity and quality.

Research Scientist

State of Michigan COVID-19 Pilot Project/Biotechnology Lab/CHS-G.V.S.U • Grand Rapids • 09/2020 - 01/2021

State of Michigan

- Processed wastewater samples for COVID-19 detection, ensuring accurate and timely results.
- Conducted concentration and extraction of viral RNA, enhancing sample integrity.
- Utilized digital PCR for precise viral quantification, contributing to public health insights.
- Maintained laboratory equipment and protocols, ensuring operational efficiency.
- Performed RT-PCR and data analysis, supporting research and public safety efforts.
- Conducted comprehensive wastewater analysis for COVID-19, utilizing digital PCR and RT-PCR techniques. Implemented rigorous data analysis protocols, enhancing result accuracy.
- Executed precise virus concentration and extraction procedures. Maintained meticulous lab conditions, ensuring optimal sample integrity and experimental validity.

Graduate Assistant-Instructor • Teaching

Grand Valley State University • Allendale/Grand Rapids • 12/2019 - 05/2021

- Managed lab operations, ensuring optimal conditions for student learning. Developed and administered quizzes, graded assignments, and provided tailored tutoring to enhance academic performance.
- Guided students through complex lab procedures, demonstrating sterile techniques and fostering a safe learning environment. Addressed queries promptly, promoting understanding and confidence.
- Implemented creative teaching methods to simplify complex concepts, resulting in improved student comprehension. Designed interactive quizzes to reinforce key learning objectives.
- Assisted in the preparation and delivery of course materials for students, supporting faculty in course planning, lecturing, and student engagement.
- Helping faculty with data collection, literature reviews, and report writing.
- Supported the management of course-related administrative tasks, including maintaining attendance records and managing course content on learning management systems (e.g., Blackboard, Canvas).
- Facilitated classroom discussions, led study sessions, and provided individual tutoring to enhance student understanding of complex topics.
- Graded assignments, exams, and provided constructive feedback to students to support academic growth.

Medical Doctor

Usman Memorial Hospital • Karachi-Pakistan • 01/2019 - 08/2019

- Managed critical care in emergency and ICU settings, applying advanced medical and surgical skills to improve patient outcomes and streamline treatment protocols.
- Delivered comprehensive care in neonatal and adult ICUs, implementing evidence-based practices that enhanced recovery rates and reduced hospital stay durations.
- Coordinated with multidisciplinary teams to provide holistic patient care, fostering a culture of knowledge sharing and continuous improvement.

- Pioneered new emergency response techniques, significantly reducing critical response times and improving survival rates in high-pressure situations.
- Mentored junior doctors and medical students, sharing expertise in emergency medicine and intensive care, contributing to the development of future healthcare professionals.
- Led critical care in ICU, implementing evidence-based practices that enhanced recovery rates and reduced hospital stays for neonatal and adult patients.

Medical Doctor

Mamji Hospital • Karachi-Pakistan • 01/2019 - 08/2019

- Led emergency medical interventions and managed critical care in ICU, ensuring swift patient stabilization and treatment adherence.
- Coordinated with multidisciplinary teams in medical and surgical wards, fostering seamless patient care and improved recovery outcomes.
- Conducted thorough patient assessments, interpreting complex medical data to formulate effective treatment plans in high-pressure scenarios.
- Implemented novel emergency response protocols, enhancing the hospital's capacity to manage diverse medical crises efficiently.
- Provided compassionate care to patients and families, offering clear communication and emotional support during critical medical situations.
- Conducted comprehensive patient evaluations, synthesizing complex medical data to develop targeted treatment strategies in high-stress emergency scenarios.

Medical Intern • Internship

Abbasi Shaheed Hospital • Karachi-Pakistan • 01/2018 - 01/2019

- Assisted in various surgical procedures, including appendectomy, hernia repair, laparotomy, C-section, circumcision, gunshot wound repair, and amputation.
- Focused on enhancing patient recovery and ensuring high-quality postoperative care.
- Managed emergency care, improving response times and outcomes.
- Supported ICU teams, contributing to critical patient stabilization.
- Conducted comprehensive pre and post-operative assessments, contributing to enhanced patient recovery outcomes and reduced complications.
- Streamlined emergency response protocols, significantly reducing average patient wait times and improving overall care quality in high-pressure situations.
- Integrated seamlessly with multidisciplinary teams across various specialties, fostering knowledge exchange and optimizing patient treatment strategies.
- Implemented novel patient education techniques, leading to improved adherence to post-operative care instructions and accelerated recovery timelines.
- Meticulously documented patient histories and treatment plans, ensuring accurate information flow and facilitating informed decision-making among healthcare providers.
- Conducted pre and post-operative assessments, enhancing patient recovery outcomes and reducing complications in surgical procedures.

Emergency Medicine Clinical Rotation

Hamad Hospital and Medical Corporation • Doha-Qatar • 10/2017 - 11/2017

- Partnered with multidisciplinary teams in emergency medicine, enhancing patient care and fostering a culture of continuous improvement.
- Implemented new patient communication strategies during clinical rotations, significantly improving overall care quality and satisfaction.

- Streamlined patient documentation processes, reducing administrative time and allowing more focus on direct patient care.
- Provided crucial assistance in emergency medicine, surgical procedures, and obstetric deliveries, contributing to positive patient outcomes.
- Evaluated emergency medicine protocols, identifying areas for improvement and proposing data-driven solutions to enhance patient care.

General Surgery Clinical Rotation

Hamad Hospital and Medical Corporation • Doha-Qatar • 11/2017 - 12/2017

- Conducted comprehensive patient assessments, assisting in surgical procedures and post-operative care. Developed critical diagnostic skills and enhanced clinical decision-making abilities.
- Worked effectively within multidisciplinary teams, contributing to patient care plans and surgical interventions. Fostered strong communication skills across medical specialties.
- Meticulously maintained patient records and surgical documentation, ensuring accuracy and compliance with hospital protocols. Improved data management processes for efficient care delivery.
- Actively participated in surgical procedures, gaining hands-on experience in various techniques. Contributed to successful patient outcomes through diligent pre and post-operative care.

Obstetrics and Gynecology Clinical Rotation

Hamad Hospital and Medical Corporation • Doha-Qatar • 12/2017 - 12/2017

- Conducted comprehensive patient assessments, assisted in deliveries, and monitored high-risk pregnancies, enhancing clinical decision-making skills.
- Collaborated on complex obstetric cases, contributing to improved patient outcomes and reduced complications in challenging pregnancies.
- Provided compassionate care to expectant mothers, offering emotional support and education throughout their pregnancy journey.
- Meticulously documented patient histories, treatment plans, and progress notes, ensuring accurate and up-to-date medical records.
- Participated in implementing new prenatal care protocols, contributing to enhanced patient satisfaction and streamlined clinical processes.
- Conducted thorough patient assessments and assisted in deliveries, enhancing clinical decision-making skills in high-risk pregnancies.

International Medical Graduate • Part-time

ICNA • Dallas • 09/2021 - Present

- Obtaining medical history, reviewing charts, utilize diagnostic tools like EKG and X-ray, supporting accurate patient assessments.
- Collaborate with a team of medical professionals, ensuring efficient clinic workflow.
- Engage in community outreach, fostering trust and expanding healthcare reach.
- Analyze complex medical cases, applying international healthcare standards to enhance patient outcomes and contribute to global health initiatives.
- Foster cross-cultural medical partnerships, bridging healthcare gaps and promoting knowledge exchange among diverse international medical communities.
- Develop creative solutions for resource-limited settings, adapting medical practices to meet unique challenges in various global healthcare environments.
- Drive improvements in patient care quality through implementation of evidence-based practices, leading to measurable advancements in health outcomes.

- Spearhead initiatives to integrate cutting-edge medical technologies, paving the way for advanced healthcare delivery in underserved regions.
- Conduct comprehensive patient assessments, leveraging diagnostic tools to support accurate medical evaluations and enhance treatment efficacy in underserved communities.

EDUCATION

MASTER OF SCIENCE in Cell and Molecular Biology 2019-2021

Grand Valley State University • Grand Rapids

Bachelor of Medicine & Surgery 2012-2018

Liaquat College of Medicine and Dentistry

ACTIVE MEDICAL LICENSE

P.M.D.C

CERTIFICATIONS

HIPPA 2021

University of Chicago Medicine

EPIC TRAINING 2021

University of Chicago Medicine

GOOD CLINICAL PRACTICE 2021

Citi Program for University of Chicago

HUMAN RESEARCH 2021

Citi Program for University of Chicago

ASCLS P.A.C.E 2021

Mayo clinical research institute USA

HANDLING AND TRANSPORTING DANGEROUS GOODS 2021

Mayo clinical research institute USA

Clinical Rotation Emergency Department, Darul Sehat Hospital, Karachi, Pakistan 2016

Darul Sehat Hospital-Emergency Medicine

Clinical Rotation Emergency Medicine and Surgery Department, HMC, Al Wakrah Qatar 2017

Hammad Medical Corporation

Clinical Rotation General Surgery Department, HMC, Al Wakrah Qatar 2017

Hammad Medical Corporation

Clinical Rotation OBSTETRICS AND GYNECOLOGY, HMC, Al Wakrah Hospital, Qatar 2017

Hammad Medical Corporation

Basic Life Support 2017

Dow University of Health Sciences

Certificate of Appreciation from President of Grand Valley State University, State of Michigan Cov-19 project, 2021

Grand Valley State University

Leadership and Service to GVSU 2021

Grand Valley State University

Graduate Dean's Citation for Academic Excellence 2021

Grand Valley State University

NIH stroke Scale 2021

NIHSS

Modified Rankin Scale 2021

Web DCU

Conflict of Interest 2021

Citi Program for University of Chicago

Hazardous Material Handling and Transporting 2021

US Department of Transportation

C5491031 COVID Vaccine Study Specific Protocol Training 2021

Pfizer

C3671013 RSV Protocol Specific Training 2021

Pfizer

C5491001 COVID Vaccine Study Specific Protocol Training 2021

Pfizer

Janssen Electronic Inbound Safety Reporting 2.0 2021

Janssen

RSV-MVA-004 Protocol Training 2022

Bavarian Nordic

C5481001 COVID+RSV+FLU Protocol Specific Training 2022

2022

C4781004 Flu Vaccine Study Specific Protocol Training 2022

Pfizer

ENANTA EDP-938-104 RSV Specific Protocol Training 2022

Enanta

219276 RSV + Pneumonia Specific Protocol Training 2022

GlaxoSmithKline

TCK-276-102 Rheumatoid Arthritis Specific Protocol Training 2022

Teijin Pharma-Japan

VAC52416BAC3001 UTI Vaccine Study Specific Protocol Training 2022

Janssen

Basic Life Support - BLS HCP - CPR (Adult / Child / Infant / Choking) Automated External Defibrillation / First-Aid 2023

National CPR Foundation

RSV Vaccine Study Specific Protocol Training 2023

Moderna

Psoriasis Study Specific Protocol Training 2023

Sun Pharma

EFC17561 Eczema Skin Shore Study Specific Protocol Training 2023

Sanofi

C5241007 RSV Protocol Specific Training 2023

Pfizer

C5261002 COVID & FLU Protocol Specific Training 2023

Pfizer

C5491054 COVID VACCINE Protocol Specific Training 2023

Pfizer

C5491054 COVID VACCINE Protocol Specific Training 2023

Pfizer

C4591002 Study Specific Protocol Training 2023

Pfizer

eSource, CTMS, Recruitment Training 2023

CRIO

VCT Study Trial Training 2023

Verified Clinical Trials

C4591023 Covid + Flu Vaccine Study Specific Protocol Training 2024

Pfizer

AZ D8610C0001 RSV + Human Metapneumovirus Specific Protocol Training 2024

AstraZeneca

Patient Forum Focus Session Breakthrough Science and Community Participation 2024

WCG

Gene Editing at the Cutting Edge of Molecular Medicine: Clinical, and Ethical Concerns in CRISPR Clinical Trials 2024

WCG Academy

Decoding the Top Site Challenges of 2024: Empowering Sites for Clinical Trial Success 2024

WCG ACADEMY

MolecuLightDX Training, Testing and Certification in Interpreting Fluorescence Images-2025

MolecuLightDX

Green Light Guru - CAPA Certification-2025

Green Light Guru

Artificial Intelligence (AI) and Human Subject Protection-2025

CITI Program

WCG-ICH E6 (R3) is Here - What You Need to Know-2025

WCG ACADEMY

WCG-Patient Forum Focus Session: Breakthrough Science and Community Participation-2025

WCG ACADEMY

AWARDS & SCHOLARSHIPS

Certificate of Appreciation from President of Grand Valley State University, State of Michigan Cov-19 project, 2021 •

01/2021

Grand Valley State University

Deans Citation Award, Grand Valley State University, 2021 • 01/2021

Grand Valley State University

Michigan Academy Science, Arts and Letters Research Project Detection of Cov-19 , Co-Author of Abstract and Presentation, 2021 •

01/2021

Michigan Academy Science

Michigan Academy Science, Arts and Letters Research Project Detection of Cov-19 , Co-Author of Abstract and Presentation, 2021 •

01/2021

Michigan Academy Science

PROJECTS

C5491031 COVID Vaccine Study 2021

Pfizer

C3671013 RSV Project 2021

Pfizer

C5491001 COVID Vaccine Study 2021

Pfizer

Monoclonal Antibodies REGEN-COV Covid-19 Regeneron -2021

Regeneron

ZOLL ReCCLAIMM II Reperfusion J&J Project 2021

Johnson & Johnson

Janssen RSV Investigational Medicine Project 2022

J&J

Bavarian Nordic RSV-MVA-004 Project 2022

Bavarian Nordic

C5481001 COVID+RSV+FLU Project 2022

Pfizer

C4781004 Flu Vaccine Study Project 2022

Pfizer

ENANTA EDP-938-104 RSV Project 2022

Enanta Pharmaceutical

219276 RSV + Pneumonia GSK Project 2022

GlaxoSmithKline

TCK-276-102 Rheumatoid Arthritis Project 2022

Teijin Pharma-Japan

VAC52416BAC3001 UTI Vaccine Study 2022

Janssen

Maternal RSV Vaccine Study 2023

Moderna

Psoriasis Study 2023

Sun Pharma

EFC17561 Eczema Skin Shore Study 2023

Sanofi

C5241007 RSV Project 2023

Pfizer

C5261002 COVID & FLU Protocol 2023

Pfizer

C5491054 COVID VACCINE Protocol 2023

Pfizer

C5491054 COVID VACCINE 2023

Pfizer

C4591002 Study Specific Protocol Project 2023

Pfizer

C4591023 Covid + Flu Vaccine Study 2024

Pfizer

AZ D8610C0001 RSV + Human Metapneumovirus Project 2024

AstraZeneca

A Study to Evaluate Efficacy and Safety of in Adults and Adolescence With Eczema-2024

Sanofi

A Study to Evaluate Efficacy and Safety in Adults With Plaque Psoriasis-2024

Sanofi

C3671044 Pfizer RSV Project 2025

Pfizer

C3671013 RSV SubStudy C 2025

Pfizer

GA45329 Treat moderate to severe ulcerative colitis, a type of inflammatory bowel disease-Ametrine-1, a Roche-sponsored Phase III clinical trial-2025

Roche

C6271001 Covid and Flue Vaccine Pfizer-2025

Pfizer

C3671058 RSV and Shingles Vaccine Pfizer-2025

Pfizer

COPD Trial Uniquity Bio NSI-8226-205 - 2025

Uniquity Bio

ADP-938-104 Abbott Lactate Study-2025

Abbott

ADP-938-104 Abbott Diabetic Sensor Trials-2025

Abbott

President & Founder MedHealthZone– Digital Platform for Clinical Research • 02/2025 - Present

MedHealthZone

SCOPE:

Developed and launched a secure, HIPAA/FDA/ICH-GCP compliant digital platform that connects participants, physicians, research sites, and sponsors. **Enhanced recruitment through digital outreach, centralized site-sponsor collaboration,** and **supported physicians in integrating research programs.** **Expanded the ecosystem to improve trial efficiency** while ensuring **strict regulatory and data protection compliance.**

- **Designed and launched a secure digital platform** connecting clinical trial participants, physicians, research sites, and sponsors, with **full compliance to HIPAA, FDA, and ICH-GCP standards.**
- **Established participant recruitment channels** through targeted **digital outreach and education.**
- **Built a centralized system** for **research sites and sponsors** to collaborate on active studies.
- **Engaged physicians** and supported them in **integrating research programs** into their practices.
- **Expanded the platform ecosystem,** improving **clinical trial efficiency and collaboration.**
- **Ensured strict compliance** with **healthcare regulatory and data protection requirements.**

Chief Medical Officer & Research Scientist-Virtual Remote Assessment of Transcranial Electrical Stimulation in Parkinson's Disease •

01/2025 - Present

U: The Mind Company

- **Chief Medical Officer & Research Scientist** leading clinical development and scientific research initiatives.
- Design and execute **virtual clinical trials** evaluating the Sphere V3.0 Transcranial Electrical Stimulation device for Parkinson's Disease motor symptom reduction.
- **Assess safety and efficacy** of non-invasive neuromodulation through remote interventions.
- Collaborate with cross-functional teams including **clinical researchers, regulatory experts, and engineers** to ensure protocol adherence and data integrity.

- Lead **data analysis, interpretation, and reporting** to support device development and regulatory submissions.
- Contribute to **scientific publications and presentations** on innovative virtual clinical trial methodologies.

Director of Business Development-Alliance Physician and Medical Billing • 05/2025 - Present

Alliance Physician and Medical Billing

Scope: Founded and directed a **medical billing and revenue cycle management service** designed to support physicians, medical groups, and healthcare organizations by streamlining billing processes, optimizing reimbursements, and ensuring compliance with healthcare regulations.

Highlights:

- **Developed and implemented digital billing solutions** to improve accuracy, reduce claim denials, and accelerate reimbursement cycles.
- **Built strong partnerships with physicians and practices**, tailoring billing strategies to their unique operational needs.
- **Expanded business networks** by onboarding new physician groups and healthcare providers.
- **Led compliance initiatives** ensuring adherence to HIPAA, CMS, and payer-specific regulations.
- **Drove measurable revenue growth** by optimizing coding accuracy, claims management, and financial reporting.

Results:

- Increased revenue collection efficiency for physician practices.
- Reduced billing errors and denial rates, improving overall financial performance.
- Recognized by clients for reliable, transparent, and results-driven billing support.

Research Consultant-Cutting Edge Next Generation AI • 08/2024 - Present

OUTLIER-Next Generation AI

Scope: Contributing to the development of advanced **AI models for cell biology**, with a focus on enhancing model accuracy, bridging AI and biology, and supporting scientific discovery through data-driven insights.

Highlights:

- **Trained AI models for cell biology**, improving accuracy and enabling deeper biological analysis.
- **Developed machine learning models**, optimizing data evaluation and driving progress in research initiatives.
- **Led data reviews to refine AI models**, delivering insights that advanced scientific projects.
- **Fostered AI-biology collaboration**, leveraging interdisciplinary approaches to address complex challenges.
- **Conducted comprehensive data reviews**, providing actionable insights to improve AI performance and research outcomes.
- **Bridged AI and biology disciplines**, strengthening interdisciplinary teamwork to push scientific boundaries.

Program Director - Clinical Research Internship Program • 09/2021 - Present

SMS Clinical Research

Scope: Established an internship program for pre-medical students to gain hands-on exposure to **clinical research operations, regulatory standards, and patient-focused skills**. Designed learning materials, counseling sessions, and supervised training to prepare students for careers in clinical and academic research.

Highlights:

- Developed structured training modules on clinical research workflows and compliance requirements.
- Mentored students on study design, informed consent, and patient engagement.
- Trained participants in practical research processes, including:
 - Electronic Data Capture (EDC)
 - Screening and randomization

- Conducting and documenting research visits
- Follow-up and data monitoring
- Introduced regulatory training in HIPAA, Good Clinical Practice (GCP), and IATA biospecimen handling.
- Provided exposure to phlebotomy and clinical site operations.
- Built a foundation of **future healthcare professionals** equipped with applied research experience.

Program Director - Medical Billing & Healthcare Operations Internship Program •

05/2025 - Present

Alliance Physician and Medical Billing (Alliance PMB)

Scope: Designed and directed a specialized internship program to train pre-medical students in **medical billing, coding, and healthcare business processes**. The program combines counseling, educational resources, and hands-on training to ensure students develop both technical and professional skills for healthcare administration.

Highlights:

- Created structured modules on medical billing, revenue cycle management, and ICD coding practices.
- Provided students with supervised training in claims submission, denial management, and payer compliance.
- Integrated regulatory education covering HIPAA compliance and healthcare data security.
- Offered exposure to healthcare operations, including patient dealing, documentation, and workflow optimization.
- Strengthened student competencies in healthcare administration, bridging the gap between medical knowledge and operational excellence.
- Helped students gain real-world, transferable skills applicable in healthcare business and practice management.

SKILLS

Clinical & Medical Skills: Chronic disease management, Chronic disease management, Chronic disease management, Clinical assessment, Clinical assessment, Clinical assessment, Clinical auditing, Clinical auditing, Clinical auditing, Clinical documentation, Clinical documentation, Clinical documentation, Clinical epidemiology, Clinical epidemiology, Clinical epidemiology, Clinical ethics, Clinical ethics, Clinical ethics, Clinical governance, Clinical governance, Clinical governance, Clinical informatics, Clinical informatics, Clinical informatics, Clinical medicine, Clinical medicine, Clinical medicine, Clinical reasoning, Clinical reasoning, Clinical reasoning, Clinical simulation, Clinical simulation, Clinical simulation, Clinical strategy, Clinical strategy, Clinical strategy, Clinical trials & clinical trial design, Clinical trials & clinical trial design, Clinical trials & clinical trial design, Diagnosis formulation, Diagnosis formulation, Diagnosis formulation, Diagnostic testing, Diagnostic testing, Diagnostic testing, Differential diagnoses, Differential diagnoses, Differential diagnoses, EKG interpretation, EKG interpretation, EKG interpretation, Electronic Medical Records (EMR/EHR) proficiency, Electronic Medical Records (EMR/EHR) proficiency, Electronic Medical Records (EMR/EHR) proficiency, Emergency medicine, Emergency medicine, Emergency medicine, Foreign body removal, Foreign body removal, Foreign body removal, Health promotion & patient advocacy., Health promotion & patient advocacy., Health promotion & patient advocacy., Infection control & prevention, Infection control & prevention, Infection control & prevention, Injury treatment, Injury treatment, Injury treatment, IV insertion & management, IV insertion & management, IV insertion & management, Lab interpretation, Lab interpretation, Lab interpretation, Laboratory procedures, Laboratory procedures, Laboratory procedures, Medical equipment operation, Medical equipment operation, Medical equipment operation, Medical ethics, Medical ethics, Medical ethics, Medical imaging, Medical imaging, Medical imaging, Medical record-keeping, Medical record-keeping, Medical record-keeping, Medical research, Medical research, Medical research, Medical terminology, Medical terminology, Medical terminology, Medication administration & prescription, Medication administration & prescription, Medication administration & prescription, Palliative & end-of-life care, Palliative & end-of-life care, Palliative & end-of-life care, Patient assessment, Patient assessment, Patient assessment, Patient care (patient-centered / patient-centric), Patient care (patient-centered / patient-centric), Patient care (patient-centered / patient-centric), Patient diagnosis, Patient diagnosis, Patient diagnosis, Patient education & engagement, Patient education & engagement, Patient education & engagement, Patient navigation, Patient navigation, Patient navigation, Patient outcomes assessment, Patient outcomes assessment, Patient outcomes assessment, Patient recruitment, Patient recruitment, Patient recruitment, Patient safety & patient safety protocols, Patient safety & patient safety protocols, Patient safety & patient safety protocols, Pharmacology expertise, Pharmacology expertise, Pharmacology expertise, Phlebotomy, Phlebotomy, Phlebotomy, Physical examination, Physical examination, Physical examination, Preventive care, Preventive care, Preventive care, Surgical procedures & surgical skills, Surgical procedures & surgical skills, Surgical procedures & surgical skills, Telemedicine consultation, Telemedicine consultation, Telemedicine consultation, Treatment plan development & treatment planning, Treatment plan development & treatment planning, Treatment plan development & treatment planning, Triage & prioritization, Triage & prioritization, Triage & prioritization, Vital signs monitoring, Vital signs monitoring, Vital signs monitoring, Wound care management, Wound care management, Wound care management

Research & Scientific Skills: Artificial intelligence training, Bioethics, Bioinformatics analysis & tools, Biostatistics, Biotechnology, Cell culture techniques, Clinical trial design & execution, Computational modeling, confocal), CRISPR/Cas gene editing, Cross-functional research collaboration., Data curation & database management, Data mining, Data visualization & interpretation, Disease modeling, Droplet digital PCR (ddPCR), ELISA, Evidence-based practice, Experimental design, Flow cytometry, fluorescence, Genomic sequencing, Good Clinical Practice (GCP), Good Laboratory Practice (GLP), Grant writing & grant management, High-throughput screening, Hypothesis development, Laboratory management, Literature review & critical appraisal, Machine learning in healthcare, Meta-analysis, metabolomics), Microscopy (light, Molecular techniques, Next-generation sequencing (NGS), Omics technologies (genomics, Peer-reviewed publication preparation, Protein purification & analysis, proteomics, Protocol development, Regenerative medicine, Research design & methodology, Research ethics & compliance, Research project management, R programming, RT-PCR, Scientific data analysis, Scientific writing, Statistical analysis for research, Study monitoring & reporting, Systematic review methodology, Translational medicine, Western blotting

Data, Analytics & Digital Health: API integration in digital health, Azure, Big data management, Business intelligence reporting, Clinical decision support systems (CDSS), Cloud-based health platforms (AWS, Data analysis & data interpretation, Data governance, Data privacy & security (HIPAA, Data quality assurance, Data visualization (Tableau, Data warehousing, Digital health, Electronic data capture (EDC), Electronic Health Records (EHR) integration, ETL (Extract, GCP), GDPR compliance), ggplot2), Healthcare analytics & health data analytics, Health informatics & health informatics systems, Health technology & health technology assessment, HL7 & FHIR interoperability, Load) processes, Machine learning & AI in healthcare, Mobile health (mHealth) applications, Natural language processing (NLP), Outcomes measurement, Population health analytics, Power BI, Predictive analytics, Python & R for healthcare data science, Real-world evidence (RWE) analytics, Remote patient monitoring systems, Risk prediction modeling, SAS & SPSS analytics, SQL database management, Statistical analysis, Telehealth technologies, Time series analysis, Transform, Wearable health technology analytics.

Healthcare Systems, Policy & Compliance: Accreditation standards (Joint Commission), Accreditation standards (Joint Commission), Accreditation standards (Joint Commission), Change management in healthcare organizations, Change management in healthcare organizations, Change management in healthcare organizations, Clinical governance frameworks, Clinical governance frameworks, Clinical governance frameworks, Compliance monitoring & auditing, Compliance monitoring & auditing, Compliance monitoring & auditing, Disaster preparedness & emergency planning, Disaster preparedness & emergency planning, Disaster preparedness & emergency planning, Ethical compliance & ethical research practices, Ethical compliance & ethical research practices, Ethical compliance & ethical research practices, Global health systems, Global health systems, Global health systems, Good Clinical Practice (GCP), Good Clinical Practice (GCP), Good Clinical Practice (GCP), Good Laboratory Practice (GLP), Good Laboratory Practice (GLP), Good Laboratory Practice (GLP), Healthcare compliance & HIPAA compliance, Healthcare compliance & HIPAA compliance, Healthcare compliance & HIPAA compliance, Healthcare innovation, Healthcare innovation, Healthcare innovation, Healthcare operations management, Healthcare operations management, Healthcare operations management, Healthcare policy development & analysis, Healthcare policy development & analysis, Healthcare policy development & analysis, Healthcare strategy, Healthcare strategy, Healthcare strategy, Health communication, Health communication, Health communication, Health disparities reduction, Health disparities reduction, Health disparities reduction, Health economics & cost-effectiveness analysis, Health economics & cost-effectiveness analysis, Health economics & cost-effectiveness analysis, Health equity initiatives, Health equity initiatives, Health equity initiatives, Health policy advocacy, Health policy advocacy, Health policy advocacy, Health promotion, Health promotion, Health promotion, Health systems & health systems research, Health systems & health systems research, Health systems & health systems research, Health technology assessment (HTA), Health technology assessment (HTA), Health technology assessment (HTA), Institutional Review Board (IRB) submissions, Institutional Review Board (IRB) submissions, Institutional Review Board (IRB) submissions, Lean Six Sigma in healthcare, Lean Six Sigma in healthcare, Lean Six Sigma in healthcare, Managed care & reimbursement models, Managed care & reimbursement models, Managed care & reimbursement models, Patient safety & adverse event reporting, Patient safety & adverse event reporting, Patient safety & adverse event reporting, Population health management, Population health management, Population health management, Process improvement methodologies, Process improvement methodologies, Process improvement methodologies, Protocol design, Protocol design, Protocol design, Public health program evaluation, Public health program evaluation, Public health program evaluation, Quality assurance, Quality assurance, Quality assurance, Quality control, Quality control, Quality control, Quality improvement, Quality improvement, Quality improvement, Quality metrics, Quality metrics, Quality metrics, Regulatory affairs & regulatory compliance, Regulatory affairs & regulatory compliance, Regulatory affairs & regulatory compliance, Risk assessment & risk management, Risk assessment & risk management, Risk assessment & risk management, Strategic healthcare planning, Strategic healthcare planning, Strategic healthcare planning, Study budgeting, Study budgeting, Study budgeting, Study start-up & close-out, Study start-up & close-out, Study start-up & close-out, Value-based care models, Value-based care models, Value-based care models

Leadership, Management & Professional Skills: Adaptability & flexibility, Adaptability to dynamic environments, Budget management, Change management, Coaching & mentoring, Collaboration, Conflict resolution, Critical case evaluation, Critical thinking, Cross-functional collaboration, Decision analysis, Decision-making, Delegation, Effective communication (verbal & written), Emotional intelligence, Goal setting, Innovation & continuous improvement, Interpersonal skills, Leadership, Leadership development, Leadership under pressure, Management, Meeting facilitation, Multitasking, Negotiation & networking, Operational planning, Organizational excellence, Organizational skills, Patient advocacy, Performance evaluation, Problem solving, Project management, Public speaking, Reliability, Resource allocation, Risk management, Self-motivation, Staff training & development, Stakeholder management, Strategic planning, Team building, Teamwork, Time management, Vision setting & execution.