

# Mandeep Singh

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## EDUCATION

### Master of Science, Clinical Epidemiology

Kent State University, Kent, OH | May 2026

### Bachelor of Science, Biotechnology

Kent State University, Kent, OH | May 2021

## SKILLS

Epic (2 years)

Communication skills

Microsoft Excel

Documentation review

Microsoft Word

Languages: Hindi – Fluent, English-Fluent, French – Intermediate, Urdu – Fluent, Punjabi - Fluent

## WORK EXPERIENCE

### Research Assistant

Case Western reserve University | September 2021 - Now

- Performing various investigations in murine models to look for hypertrophic cardiomyopathy.
- Performing various experiments like echocardiogram, telemetry, proteomics, organ harvesting, histology to assess cardiac function in hypertrophic and WT mice.
- Managing mice colonies performed retro orbital gene delivery via AAV9 vector.
- Collaborating with other members of the lab to produce and analyse clinical physiological data to develop therapies for Heart failure.
- Performing multiple dosing trials in pre-clinical murine models with drug delivery via IP, IV (internal jugular vein cannulation and femoral vein cannulation). RO, SQ, PO and metabolic cages.
- Testing different doses via cardiovascular imaging such as echocardiography (Vevo 3100), Radio telemetry (DSI-100) and non-survival acute dosing via Pressure volume loop (Millar instruments SPR-839) via both carotid approach and Open chest apical approach.
- Different mice model development via vector delivery and surgical procedures for example- Hypertension model in WT mice via Abdominal TAC.
- Producing quality data for publication for both independent and collaborative projects.

### Clinical Assistant

ESIC Medical College and Hospital, Faridabad, India | September 2023 – April 2024

- Took care of patients in CVICU in daily ambulatory activities, physical support and mental support.
- Took vital signs every 5 hours and reported any abnormalities to the supervising physician,
- Assisted with dressing wounds, phlebotomy, glucose monitoring, food and medication monitoring, urinary catheter management and other small tests.
- Managed patient care charts and communicated with other clinical assistants.

### **Patient Care Technician**

Cleveland Clinic Heart failure unit J-72 - Cleveland | August 2020 - June 2021

- Carried out direct patient care activities, including dressing wounds and assisting other nurses with minor procedures.
- Bed side heart monitoring using 6,12 lead EKG and telemetry
- Maintained efficient patient flow and unit operations with regular supply restocking.
- Enhanced patient physical recovery with emotional and social support.
- Effective record keeping and maintaining on EPIC.

### **Facility Operations Supervisor**

Kent State University | July 2017 - May 2021

- CPR/AED instructor for recreation centre employees, certification through American red cross and American heart association (BLS).
- Supervised 6 team members to meet daily demands and handle challenging projects such as handling event planning, handling emergencies and much more.
- Fixed problems with equipment using troubleshooting and repair abilities.
- Demonstrated sound judgment, inclusive leadership, role modelling integrity, and strong character to support morale.
- Adhered to and promoted strict safety standards and enforced all rules compliant to Kent state and OSHA.

### **Peak Summer camp counsellor**

Kent State University | May 2017 - August 2017

- Supervised a group of 60 kids and assigned them activities promoting their social skills and mental abilities to be able to critically think and make decisions.
- Managed inventories of different activities and products, managing a staff of 4 people and assigning them different roles to interact with the kids.
- Well versed with families and giving them reports of the day where their kids spent the day.

### **CERTIFICATIONS**

CPR, BLS, CAN, AED, First Aid, State Tested Nursing Assistant

### **PUBLICATIONS**

Dominic, K.L. et al. (2023) 'The contribution of N-terminal truncated cMyBPC to in vivo cardiac function', Journal of General Physiology, 155(6). doi:10.1085/jgp.202213318.

Dominic, K.L., Holmes, J.B., et al. (2023) 'AAV9 gene transfer of N-terminal truncated cMyBPC ameliorates cardiac function in CMYBPC-deficient mice', Biophysical Journal, 122(3). doi:10.1016/j.bpj.2022.11.1066.