YEAR IN

COMMERCIALIZATION & ENTREPRENEURSHIP

PATENTS ISSUED IN 2021

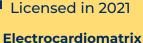


PATENTS

SINCE 2014



NEW PRODUCTS Ready to be



DETECT-ARDS

PICTURE-General Deterioration for

Adults & Pediatrics

Therapeutic Vibration Device

INVENTION DISCLOSURES

APPLICATIONS FILED



CLINICAL RESEARCH

ENROLLED

A COVID study F funded by the 0 **Department** R of Defense

NIH Funding

Foundational Funding

PICTURE

DATA SCIENCE

OBTAINED





PICTURE was integrated into the Epic Cloud Platform. The model's performance was externally validated at an outside hospital.

PRECLINICAL LABORATORY

(In addition to current DoD & NIH funds)

MANUSCRIPTS PUBLISHED

GRANTS SUBMITTED Including DoD, NIH and Industry grants



PROPOSAL DEVELOPMENT



IN GRANTS AWARDED

To more effectively help our members collaboratively design their grants, the **Proposal Development team revised** its support services, including:

- **A New Project Intake Form and Process**
- **Collaborative Proposal Design** Worksheet
- **Updated Project Support Service Packages**

MEMBERS

DEPTS. R 0 **SCHOOLS** M & COLLEGES

NEW MCIRCC STAFF

MEMBERSHIP

- Joseph Blackmer, Senior Software Developer
- Yuxuan Chen, Data Scientist
- **Traci Cramer**, Research Laboratory Technician
- Wes Cummings, Programmer Analyst
- Negar Farzaneh, Postdoctoral Data Scientist
- Shelby Unsworth, Research Admin. Fellow

MARKETING & OUTREACH



(210 New)



Between March and September, an MCIRCC article about PICTURE was the second most engaged blog post in the **Department of Emergency Medicine.**

"New Technology Predicts ICU Need for COVID-19 and General Ward Patients"

MASSEY FOUNDATION FUNDED TBI RESEARCH



3 Teams Awarded Funding by the 2021 Massey TBI Grand Challenge

Regulatory Testing for LUCID-TTM: A Dual Therapeutic Device for Non-Invasive Mitochondrial Modulation and Targeted Temperature **Management in TBI Patients**

PI's: Thomas H. Sanderson, PhD; Joseph M. Wider, PhD; Samuel Tuck, MSE

A Blood Brain Barrier (BBB) Shuttle-Assisted Insulin Receptor Antibody for Neuroprotection in TBI Pl's: Colin Greineder, MD, PhD; Peter Tessier, PhD

 The Michigan Algorithm for Acute Evaluation of TBI PI's: Frederick Korley, MD, PhD; Jacob Joseph, MD





SOMETHING NEW IS ON THE HORIZON!

In the fall of 2021, MCIRCC recieved a \$10M gift from the family of Dr. Max Harry Weil—the physician and professor regarded worldwide as the "father of critical care." As a result of this generous gift, MCIRCC is becoming The Max Harry Weil **Institute for Critical Care Research and Innovation.**

While our name and logo will change, our goal remains the same: transforming critical care through innovation, integration and entrepreneurship. We can't wait to see what the future will bring as we launch into 2022 at the new Weil Institute.

