

**YOU ARE A TRUE LEADER.**  
Our department creates regional and global leaders of emergency physician.

Our big mission is to create regional and global leaders of emergency physician, encouraging medical students and trainees to engage in basic and clinical research. Prof. Nakao has been engaged in the investigations regarding ischemia/reperfusion injury and oxidative stress at University of Pittsburgh for ten years and published a number of studies regarding effects of hydrogen gas or carbon monoxide against these injuries. We are looking forward to having you join our program to develop an exceptional physician leaders.



Atsunori Nakao,  
Professor



Intensive care  
for pediatrics

Acute Care  
Surgery

Sepsis, Shock

Disaster  
medicine

#### Basic science research

Exploring the mechanisms and establishment of novel treatment strategies of ischemia/reperfusion injury, acute lung injury, or acute kidney injury caused by hemorrhagic shock or sepsis. Application of medical gas using hydrogen or carbon monoxide to treat sepsis or sepsis-induced organ failure.

Effect of anti-HMGB 1 antibody on influenza-associated encephalopathy. Acute traumatic coagulopathy: its mechanisms, prevention, and treatment.

#### Clinical research

Comprehensive approach to improve cardiac arrest outcomes. Mobile application development of estimation of pediatric weight for Japanese children. Acid-base abnormalities and adjustment after intubation and mechanical intubation in major trauma patients. Psychological consequences after a natural disaster.

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