Department of Pediatrics
Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

Our mission: Our mission at Okayama University is to promote advanced medicine and innovative research in medical care for infants, children, and adolescents and their families.

Our principal clinical fields: Neonatal medicine, Infectious diseases, Allergy and immunology, Cardiology, Hematology and cancer, Nephrology, Endocrinology and metabolism, Gastroenterology and hepatology, Psychosocial medicine, Critical care medicine, Medical genetics

Our principal research fields:
・Development of most effective medical treatment for sick neonates and infants
  - Target diseases: neonatal respiratory distress, late circulatory collapse
・Advancement of innovative multidisciplinary strategies for severe infectious and inflammatory diseases
  - Target diseases: septic syndrome, acute encephalitis/encephalopathy, autoimmune disorders
・Advancement of specialized interventions and stem cell therapies for severe heart diseases
  - Target diseases: complex congenital heart defects, severe heart failure
・Advancement of comprehensive treatment for high-risk leukemia, cancer and sarcoma
  - Target diseases: leukemia, lymphoma, neuroblastoma, brain tumors
・Development of diagnostic genetic testing for intractable metabolic disorders
  - Target diseases: congenital bone and mineral disorders

Recent selected publications:
  - Part of the results is illustrated in Figures 1 and 2

Fig. 1 - TRX-1 is used as a biomarker and pharmaceutical target in the pediatric population.
Fig. 2 - Exogenous administration of rhTRX-1 ameliorates the lethal effects of influenza pneumonia in mice through antioxidative and anti-inflammatory actions.

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