

## Center for Maternal - Neonatal Care

**Director** HAYAKAWA, Masahiro (Clinical Professor)

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### Comprehensive support for the health of mothers and babies using advanced medicine

The Center performs obstetric medical care, reproductive medicine, intensive care for premature babies and pathologic newborn infants including high risk childbirth.

#### Medical Care System

Nine specialized doctors in the departments of obstetrics and reproductive medicine and nine specialized doctors in the neonatal department provide medical care. Even at night and on holidays, specialized doctors are assigned to the respective departments, who perform emergent childbirth delivery procedures and operations, handle emergent hospital admission, and monitor severe newborn infants.



#### Target Disease

The Center targets high risk pregnancy (pregnancy induced hypertension, pregnancy complicated by maternal disorders, placenta praevia, fetal disorder, etc.), infertility (endometriosis, uterine fibroid, fertility-preserving and recovery treatment), premature / low birth weight infants, critical ill infants (neonatal asphyxia, newborn infants with surgical disease complications, etc.).

#### Strong Fields

Fetal abnormality, placenta praevia accreta, total assisted reproductive technique such as in vitro fertilization, microinsemination, monitoring of severe newborn infants using advanced medical technology such as extracorporeal membrane oxygenators or hypothermia.

#### Clinical Results

Recorded the following numbers of clinical cases in 2010: childbirth delivery (492 cases including 193 cases of caesarean operation); mother conveyance (31 cases); congenital abnormal fetus (53 cases); in vitro fertilization (100 ovum collection periods); embryo transfer (139 periods); newborn intensive care unit (NICU) hospital admission (270 cases); extremely low birth weight infant (11 cases); and congenital diaphragmatic hernia (nine cases).

#### Advanced Medicine and Research

Researching clinical conditions of placenta previa accreta, predicting severity of fetus' diaphragmatic hernia, continuously observing embryonic development using an incubator with a microscope and studying regeneration medicine using stem cells for perinatal brain damage.



## Center of National University Hospital for Infection Control

**Director** YAGI, Tetsuya (Professor)

### Special team for infection control and prevention in Nagoya University Hospital

This department is specialized for promoting hospital infection control and prevention and official management of Japan Infection Prevention and Control Conference for National and Public University Hospitals.

#### Medical Care System

Infection control team consisting of ICD (Infection Control Doctors), ICN (Infection Control Nurses), Pharmacists, laboratory technicians, and administrative staffs collaborate in controlling nosocomial infections and provide opportunities for consultations for diagnosis and treatment of infectious disease cases. We also undertake vaccination in an outpatient clinic basis once a week.



#### Target Disease

Various healthcare-associated infections, including pneumonia, bloodstream infections, and surgical site infections, device-associated infections, and occupational infections caused by needlestick injuries and blood exposure.



#### Features

Surveillance for drug resistant bacteria and device-related infections. Cross-sectional activities for planning and implementing infection control measures. Rapid feed back of clinical microbiological information to doctors in charge in cooperation with the microbiology laboratory. Working as a secretariat for Japan Infection Prevention and Control Conference for National and Public University Hospitals.

#### Clinical Results

Standardization in reprocessing endoscopes, vaccination outpatient clinic, infection control management for novel influenza and outbreak control of drug resistant bacteria, consultations for diagnosis and treatment of difficult-to-treat infectious diseases and support in the treatment for positive blood culture cases (about 800 cases annually).

#### Advanced Medicine and Research

Clinical and bacteriological research on drug resistant bacterial infections and mycobacterial infections.

