

CURRICULUM VITAE

A) GENERAL INFORMATION

Name: **Hidehiko Nakanishi, M.D., Ph.D.**



B) PERSONAL INFORMATION

Citizenship: Japan

Gender: Male

Marital status: Married

C) EDUCATION AND EXPERIENCE

University:

1991-97 The Medical Department of Osaka City University

Experience after graduation:

1997-1999 Resident in Department of Pediatrics, Osaka City General Hospital

1999-2001 Resident in Department of Pediatric Cardiology, Osaka City General Hospital

2001-2004 Fellow in Department of Neonatology, Osaka City General Hospital

2005-2008 Research fellow, Anesthesia & Critical Care, Massachusetts General Hospital, Boston, USA.

2008-2010 Assistant Professor in Department of Neonatology, Maternal and Perinatal Center, Tokyo Woman's Medical University

2010-2018 Senior Lecturer in Department of Neonatology, Maternal and Perinatal Center, Tokyo Woman's Medical University

2018-present Professor, Research and Development Center for New Medical Frontiers, Department of Advanced Medicine, Division of Neonatal Intensive Care Medicine, Kitasato University School of Medicine

D) LICENCE

1997 Japanese Medical License Registration, registration No.389706

2001 Japanese Medical Specialist in Pediatrics, registration No.22065

- 2005 Ph.D. degree, Osaka City University Graduate School of Medicine
2010 Perinatal Specialist, Japan Society of Perinatal and Neonatal Medicine,
Registration No. 290

E) MEMBERSHIPS

Japan Pediatric Society

Board of directors of the Japan Society for Neonatal Health and Development

Chief secretary of the Japan Society of Perinatal and Neonatal Medicine

Board of directors of the Neonatal Research Network of Japan

F) PUBLICATIONS

1. Minamitani Y, Kato S, Hosokawa M, Nakashima T, Iwatani S, Nakao A, Suzuki D, Ota E, [Nakanishi H](#). **Inhaled nitric oxide therapy for preterm infants after 7 days of age: a scoping review protocol**. *BMJ Open*. 2024;14(2):e080298. doi: 10.1136/bmjopen-2023-080298.
2. Stahl A, Azuma N, Wu WC, Lepore D, Sukgen E, [Nakanishi H](#), Mazela J, Leal S, Pieper A, Schlieff S, Eissing T, Turner KC, Zhao A, Winkler J, Höchel J, Köföncü E & Zimmermann T on behalf of the FIREFLEYE Study Group. **Correction: Systemic exposure to aflibercept after intravitreal injection in premature neonates with retinopathy of prematurity: results from the FIREFLEYE randomized phase 3 study**. *Eye (Lond)*. 2024. doi: 10.1038/s41433-024-02948-y.
3. Watanabe H, Washio Y, Tamai K, Morimoto D, Okamura T, Yoshimoto J, [Nakanishi H](#), Kageyama M, Uchiyama A, Tsukahara H and Kusuda S. **Postnatal longitudinal analysis of serum nitric oxide and eosinophil counts in extremely preterm infants**. *Pediatr Neonatol*. 2023;21:S1875-9572(23)00173-0. doi: 10.1016/j.pedneo.2023.08.006.
4. Tan SM, [Nakanishi H](#), Ishida S, Kosaka Y, Sekiya R, Kawada K and Ooka M. **Hemodynamic evaluation of extremely low birth weight infants during the first 7 days of life**. *Early Hum Dev*. 2023;187:105900. doi:10.1016/j.earlhumdev.2023.105900.
5. Fukui K, Ito Y, Kokubo M, [Nakanishi H](#), Hirano S, Kusuda S, Ito S, Isayama T & the Neonatal Research Network of Japan. **Erythropoietin and retinopathy of prematurity: a retrospective cohort study in Japan, 2008–2018**. *J Perinatol*. 2024. doi: 10.1038/s41372-024-01929-z.
6. Ishida S, [Nakanishi H](#), Kosaka Y, Yamaguchi A, Ooka M, the Neonatal Research

- Network, Japan. **Evaluation of newborns with Down syndrome with weight less than 1500 g in the neonatal intensive care unit: A Japanese multicentre study.** *J Paediatr Child Health.* 2023;59(7):912-918. doi: 10.1111/jpc.16418.
7. Ishida S, [Nakanishi H](#), Kosaka Y, Yamaguchi A, Ooka M, the Neonatal Research Network, Japan. **Evaluation of newborns with Down syndrome with weight less than 1500 g in the neonatal intensive care unit: A Japanese multicentre study.** *Am J Perinatol.* 2023. doi: 10.1055/a-2113-4332.
 8. [Nakanishi H](#), Isayama T, Kokubo M, Hirano S, Kusuda S, Neonatal Research Network J: **Inhaled Nitric Oxide Therapy in the Post-Acute Phase in Extremely Preterm Infants: A Japanese Cohort Study.** *J Pediatr* 2023, **252**:61-67 e65.
 9. Kusuda S, [Nakanishi H](#), Suzuki H, Neonatal Research Network of J: **Validation of eligibility criteria for the Japan Obstetric Compensation System for Cerebral Palsy in preterm infants: A case-control cohort study.** *The journal of obstetrics and gynaecology research* 2023, **49**(1):220-231.
 10. Ito M, Kato S, Saito M, Miyahara N, Arai H, Namba F, Ota E, [Nakanishi H](#): **Bronchopulmonary Dysplasia in Extremely Premature Infants: A Scoping Review for Identifying Risk Factors.** *Biomedicines* 2023, **11**(2).
 11. Suenaga H, [Nakanishi H](#), Uchiyama A, Kusuda S, Neonatal Research Network of J: **Small for Gestational Age Affects Outcomes on Singletons and Inborn Births in Extremely Preterm Infants: A Japanese Cohort Study.** *American journal of perinatology* 2022.
 12. Stahl A, Sukgen EA, Wu WC, Lepore D, [Nakanishi H](#), Mazela J, Moshfeghi DM, Vitti R, Athanikar A, Chu K *et al*: **Effect of Intravitreal Aflibercept vs Laser Photocoagulation on Treatment Success of Retinopathy of Prematurity: The FIREFLEYE Randomized Clinical Trial.** *Jama* 2022, **328**(4):348-359.
 13. Sindelar R, [Nakanishi H](#), Stanford AH, Colaizy TT, Klein JM: **Respiratory management for extremely premature infants born at 22 to 23 weeks of gestation in proactive centers in Sweden, Japan, and USA.** *Seminars in perinatology* 2022, **46**(1):151540.
 14. Kusuda S, [Nakanishi H](#), Oei JL: **Practical procedures for the delivery room resuscitation of micropreemies.** *Seminars in fetal & neonatal medicine* 2022, **27**(2):101349.
 15. Kono Y, Yonemoto N, [Nakanishi H](#), Hosono S, Hirano S, Kusuda S, Fujimura M, Neonatal Research Network J: **A Retrospective Cohort Study on Mortality and Neurodevelopmental Outcomes of Preterm Very Low Birth Weight Infants Born to Mothers with Hypertensive Disorders of Pregnancy.** *American journal*

- of perinatology* 2022, **39**(13):1465-1477.
16. Kato S, Ito M, Saito M, Miyahara N, Namba F, Ota E, [Nakanishi H](#): **Severe bronchopulmonary dysplasia in extremely premature infants: a scoping review protocol for identifying risk factors.** *BMJ open* 2022, **12**(5):e062192.
 17. Inagi Y, Kitagawa A, Miyaji K, Takanashi M, Honda T, Okamura T, Hirata Y, [Nakanishi H](#), Ishikura K: **Rapidly growing thrombus from a ductus arteriosus aneurysm in a neonate.** *J Cardiol Cases* 2022, **26**(4):283-285.
 18. Prusakov P, Goff DA, Wozniak PS, Cassim A, Scipion CEA, Urzua S, Ronchi A, Zeng L, Ladipo-Ajayi O, Aviles-Otero N, [Nakanishi H](#) et al: **A global point prevalence survey of antimicrobial use in neonatal intensive care units: The no-more-antibiotics and resistance (NO-MAS-R) study.** *EClinicalMedicine* 2021, **32**:100727.
 19. Okamura T, Washio Y, Watanabe H, [Nakanishi H](#), Uchiyama A, Tsukahara H, Kusuda S: **Association Between Eosinophilia and Late-onset Circulatory Collapse in Preterm Infants: A case-Control Study.** *Acta Med Okayama* 2021, **75**(4):505-509.
 20. Kono Y, Rysavy MA, [Nakanishi H](#), Kusuda S: **Outcomes of infants born at periviable gestations in Japan.** *Acta Paediatr* 2021.
 21. Ishida S, Yamaguchi A, Ooka M, Kenmochi M, [Nakanishi H](#): **Evaluation of postoperative complications for PDA in extremely low birth weight infants.** *Pediatr Int* 2021.
 22. Uchiyama A, Watanabe H, [Nakanishi H](#), Totsu S: **Small for gestational age is a risk factor for the development of delayed thyrotropin elevation in infants weighing less than 2000 g.** *Clinical endocrinology* 2018, **89**(4):431-436.
 23. [Nakanishi H](#), Suenaga H, Uchiyama A, Kusuda S, Neonatal Research Network J: **Persistent pulmonary hypertension of the newborn in extremely preterm infants: a Japanese cohort study.** *Archives of disease in childhood Fetal and neonatal edition* 2018, **103**(6):F554-F561.
 24. [Nakanishi H](#), Suenaga H, Uchiyama A, Kono Y, Kusuda S, Neonatal Research Network J: **Trends in the neurodevelopmental outcomes among preterm infants from 2003-2012: a retrospective cohort study in Japan.** *J Perinatol* 2018, **38**(7):917-928.
 25. [Nakanishi H](#), Morikawa S, Kitahara S, Yoshii A, Uchiyama A, Kusuda S, Ezaki T: **Morphological characterization of pulmonary microvascular disease in bronchopulmonary dysplasia caused by hyperoxia in newborn mice.** *Medical molecular morphology* 2018.

26. Kono Y, Yonemoto N, [Nakanishi H](#), Kusuda S, Fujimura M: **Changes in survival and neurodevelopmental outcomes of infants born at <25 weeks' gestation: a retrospective observational study in tertiary centres in Japan.** *BMJ paediatrics open* 2018, **2**(1):e000211.
27. [Nakanishi H](#), Uchiyama A, Kusuda S: **Impact of pulmonary hypertension on neurodevelopmental outcome in preterm infants with bronchopulmonary dysplasia: a cohort study.** *J Perinatol* 2016, **36**(10):890-896.
28. Cheong SM, Totsu S, [Nakanishi H](#), Uchiyama A, Kusuda S: **Outcomes of peripherally inserted double lumen central catheter in very low birth weight infants.** *Journal of neonatal-perinatal medicine* 2016, **9**(1):99-105.
29. Imai K, Uchiyama A, Okamura T, Ago M, Suenaga H, Sugita E, Ono H, Shuri K, Masumoto K, Totsu S, [Nakanishi H](#) *et al*: **Differences in mortality and morbidity according to gestational ages and birth weights in infants with trisomy 18.** *American journal of medical genetics Part A* 2015, **167A**(11):2610-2617.
30. Kusuda S, Fujimura M, Uchiyama A, [Nakanishi H](#), Totsu S, for Neonatal Research Network J: **Identification of practices and morbidities affecting the mortality of very low birth weight infants using a multilevel logistic analysis: clinical trial or standardisation?** *BMJ open* 2013, **3**(8):e003317.
31. [Nakanishi H](#), Yamanaka S, Koriyama T, Shishida N, Miyagi N, Kim TJ, Kusuda S: **Clinical characterization and long-term prognosis of neurological development in preterm infants with late-onset circulatory collapse.** *J Perinatol* 2010, **30**(11):751-756.
32. Bachiller PR, [Nakanishi H](#), Roberts JD, Jr.: **Transforming growth factor-beta modulates the expression of nitric oxide signaling enzymes in the injured developing lung and in vascular smooth muscle cells.** *Am J Physiol Lung Cell Mol Physiol* 2010, **298**(3):L324-334.
33. Sugiura T, [Nakanishi H](#), Roberts JD, Jr.: **Proteolytic processing of cGMP-dependent protein kinase I mediates nuclear cGMP signaling in vascular smooth muscle cells.** *Circ Res* 2008, **103**(1):53-60.
34. Fujioka H, Shintaku H, [Nakanishi H](#), Kim TJ, Kusuda S, Yamano T: **Biopterin in the acute phase of hypoxia-ischemia in a neonatal pig model.** *Brain & development* 2008, **30**(1):1-6.
35. [Nakanishi H](#), Sugiura T, Streisand JB, Lonning SM, Roberts Jr JD: **TGF- β neutralizing antibodies improve pulmonary alveologenesis and vasculogenesis in the injured newborn lung.** *Am J Physiol Lung Cell Mol Physiol* 2007.

36. Kusuda S, Kim TJ, Koriyama T, Matsunami S, [Nakanishi H](#): **Contribution of pulmonary surfactant with inhaled nitric oxide for treatment of pulmonary hypertension.** *Pediatr Int* 2006, **48**(5):459-463.