

SUPPLEMENTARY MATERIALS

Trends in the annual incidence and risk factors of cerebral palsy

CONTENTS

Supplementary Table S1	2
Supplementary Figure S1	6

TABLES

Supplementary Table S1. Diagnosis codes for the risk factors of pediatric cerebral palsy

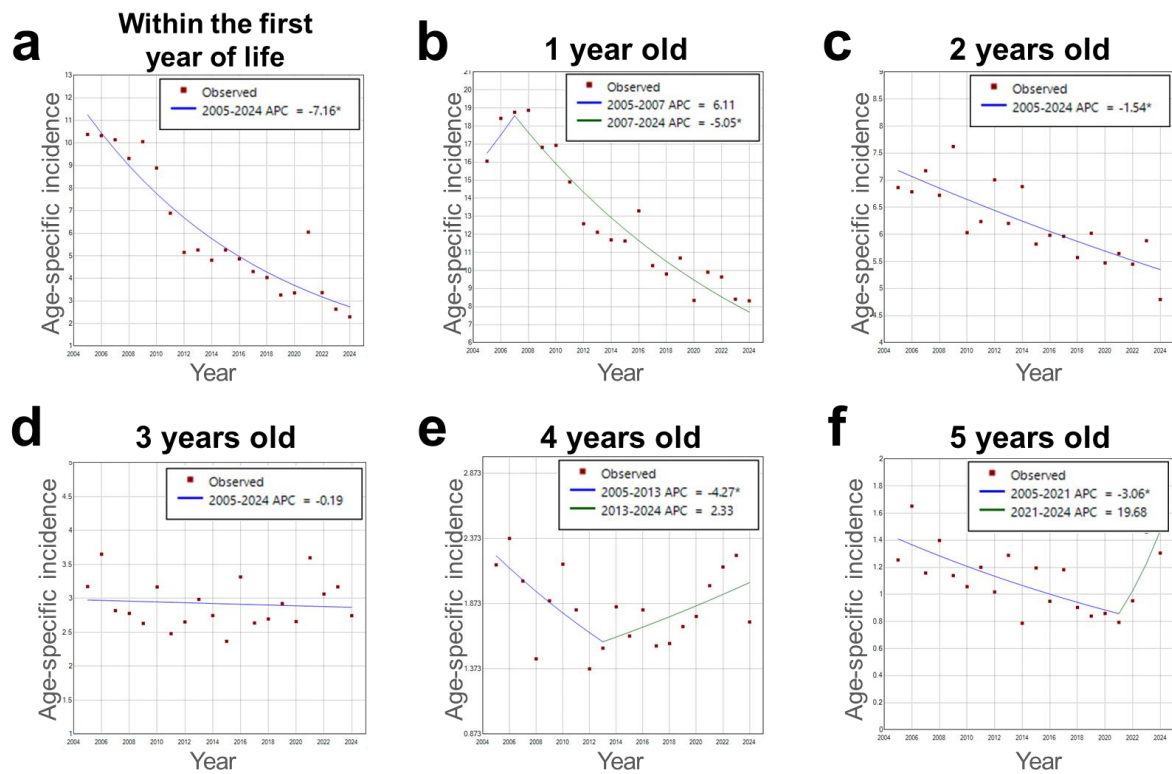
Classifications	Definition	International Classification of Diseases 10th Revision
i. Prematurity	Birth before 37 weeks of gestation	P072*, P073*
ii. Low birth weight	Birth weight less than 2,500 grams	P070*, P071*
iii. Birth-related condition		
Asphyxia/hypoxia	A clinical condition characterized by insufficient oxygen supply during or immediately after birth, often defined by low Apgar scores or need for resuscitation	P20*, P21*, P22, P220*, P228*, P229*
Traumatic brain injury due to birth injury	Physical trauma to the neonate's head during labor/delivery	P10*, P110*, P111*, P112*
Non-traumatic brain hemorrhage /hypoxic ischemic encephalopathy	Intracranial hemorrhage or global brain injury from hypoxia-ischemia in the perinatal period, , typically diagnosed via neuroimaging and clinical signs	P52*, P91*

iv. Brain anomaly	Congenital malformations of brain structure	Q00*, Q01*, Q02*, Q03*, Q04*, Q07*
v. Metabolic disease		
Hypoglycemia	Blood glucose level < 45mg/dL in the neonatal period	E161*, E162*, P70*
Hyperbilirubinemia	Elevated serum bilirubin levels in neonates, when severe, may progress to kernicterus	P57*, P58*, P59*, R17*, E80*
vi. Infection		
Bacterial sepsis	Systemic infection with positive blood culture in the neonatal period	A021*, A207*, A227*, A241*, A267*, A327*, A40*, A41*, A427, A548*, B007*, B377, P36*, R651*, T802*, T814*, T880*
vii. Brain infection		
Meningitis	Inflammation of meninges due to infection	
Bacterial meningitis	-	A20.3, A32.1, A39.0, G00, G01
Tuberculosis meningitis	-	A17.0, A17.81
Viral meningitis	-	B00.3, B01.0, B05.1, B26.1, A87, G02.0

Fungal meningitis	-	B37.5, B38.4, B45.1, G02.1
Parasites	-	G02.8
Unspecified cause	-	G04.0, G04.8, G04.9, G05.8
Encephalitis	Inflammation of brain parenchyma due to infection	
Bacterial encephalitis	-	G04.2, G05.0
Viral encephalitis	-	B00.4, B01.1, B05.0, B26.2, A86, A81.1, A83*, A84*, A85*, A86*, G05.1
Parasites	-	G04.0, G04.8, G04.9, G05.8
Unspecified cause	-	G05.2
Abscess	A focal, pus-containing infection of the intracranial or intraspinal space	G06*, G07
Viral infection of central nervous system	-	A88*, A89*, A81.8, A81.9
Bacterial infection of central nervous system	-	A52.3
Cysticercosis	-	B69.0

viii. Brain injury

Traumatic brain injury	Injury to the brain resulting from external mechanical force postnatally	S06*
ix. Cerebrovascular disease	An acute cerebrovascular event or its sequelae during the postnatal period	
Intracranial hemorrhage	-	I60*–I69*
/Intraventricular hemorrhage/ Ischemic stroke		
x. Encephalopathy	Global brain dysfunction due to various systemic or toxic insults	
Toxic encephalopathy	-	G92*
Anoxic brain damage	-	G931*
Unspecified encephalopathy	-	G934*
Metabolic encephalopathy	-	G9380*



Supplementary Figure S1. The annual percent change of cerebral palsy in children by age at diagnosis. (a) within the first year of life, (b) 1 year old, (c) 2 years old, (d) 3 years old, (e) 4 years old, (f) 5 years old.

APC, annual percent change