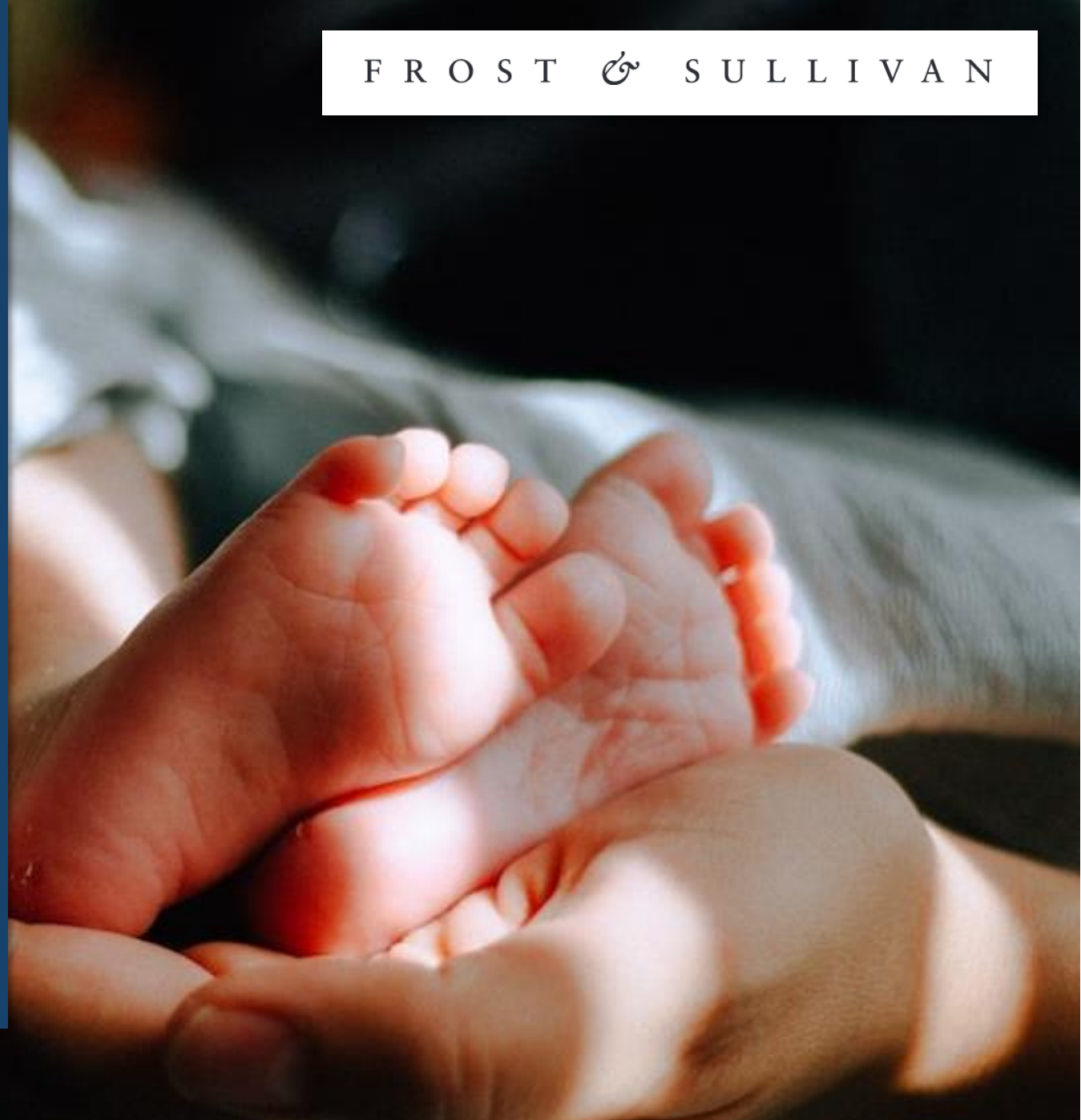


# Reducing the economic impact of preterm and early preterm birth by providing supplemental algal DHA to expectant mothers

Executive Summary Presentation for  
the Maternal Health Event

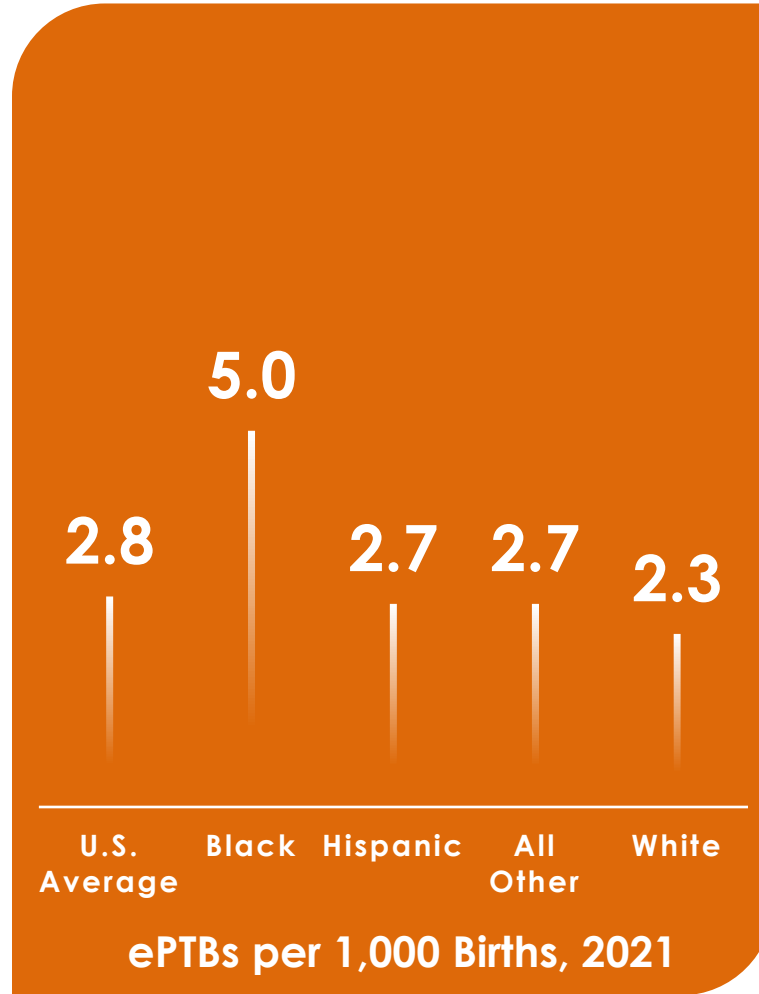
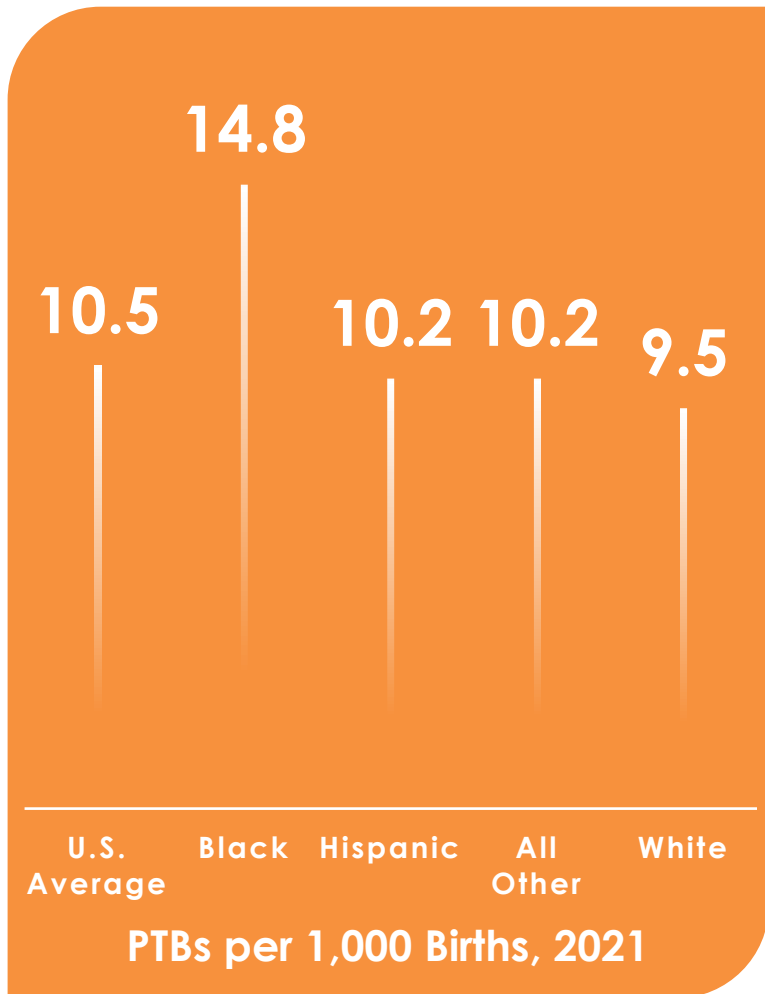
26 April 2023



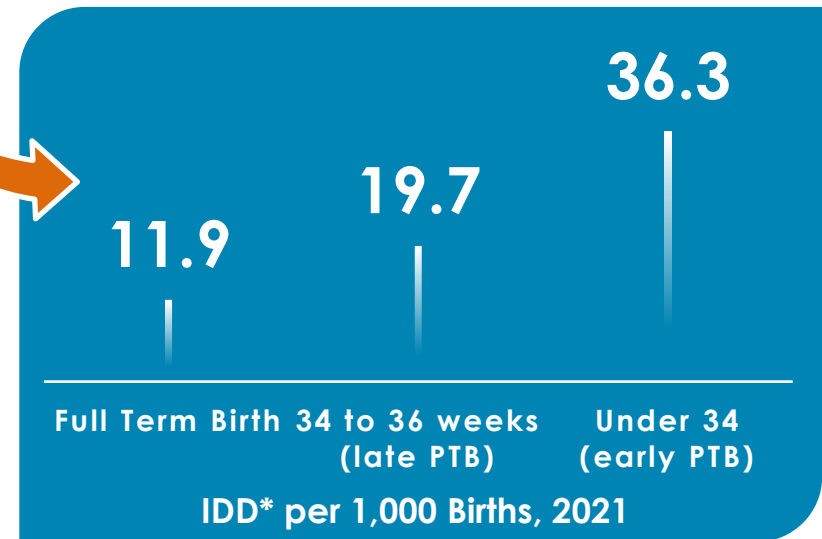
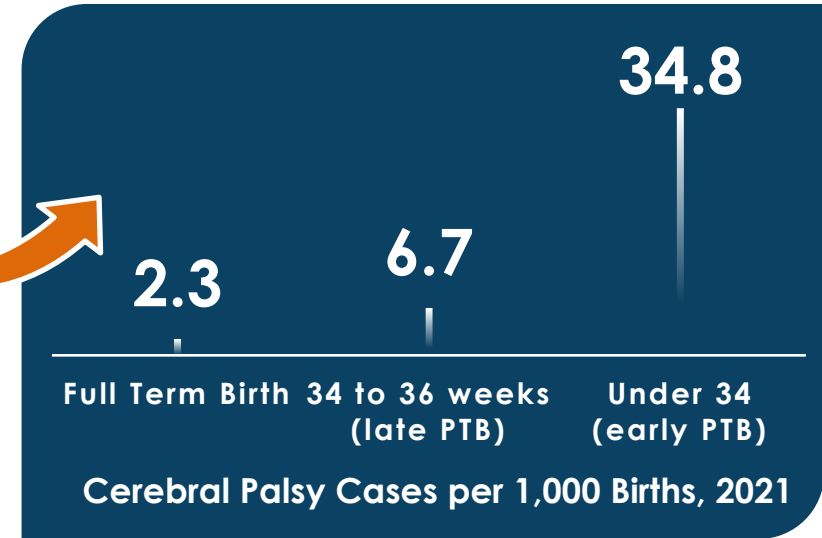
# PRETERM BIRTH

## IS AT CRISIS LEVELS IN THE UNITED STATES

Black Expectant Mothers face elevated PTB and ePTB risk



PTB Babies face elevated lifetime risk of disability



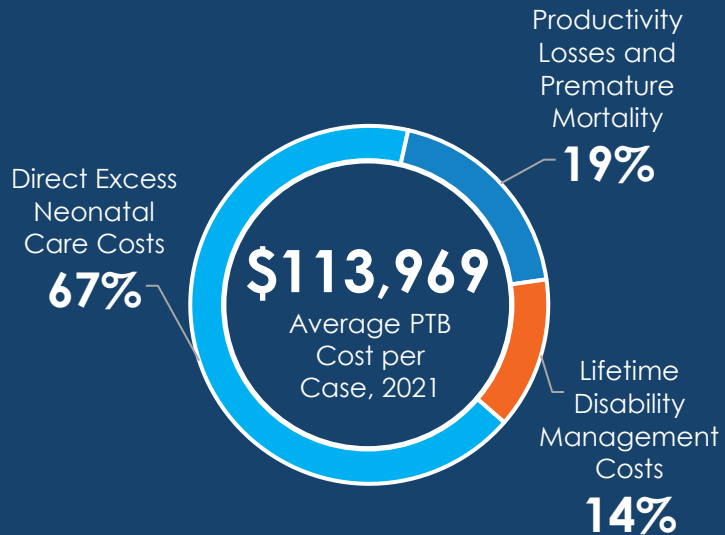
\*Note: IDD: Intellectual or Developmental Disabilities. Source: Osterman 2023, US Census and Frost & Sullivan analysis

# THE COST OF PRETERM BIRTHS

## IS AN IMMENSE FINANCIAL BURDEN ON SOCIETY

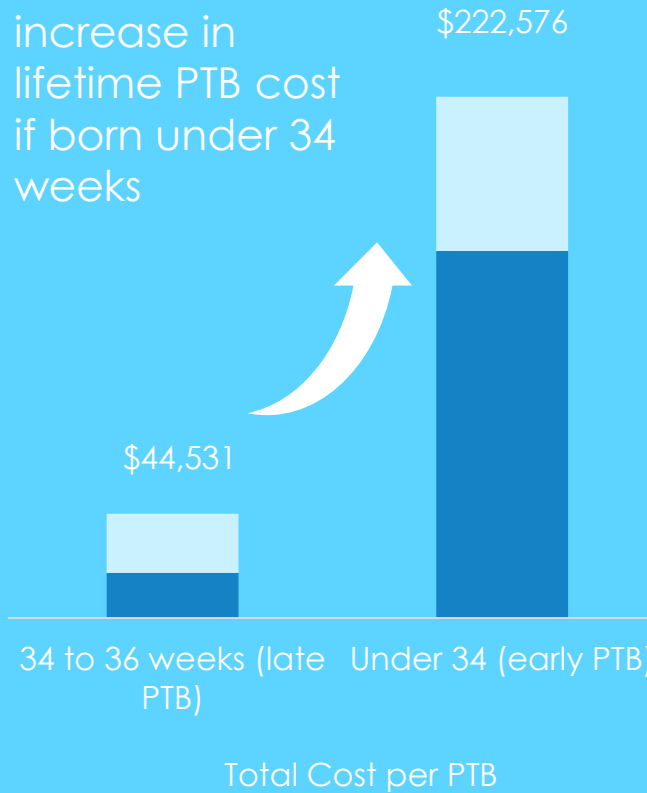
**2/3**

of the cost of a PTB attributed to excess neonatal care cost



**5x**

increase in lifetime PTB cost if born under 34 weeks



Total Population Cost of All PTB

**\$34.5 BILLION**

Total Population Cost of all preterm births in the United States in 2021



Total Population Cost of ePTB

**\$22.9 BILLION**

Total Population Cost of early preterm births in the United States in 2021



Source: Beam 2020, McLaurin 2019, Honeycutt et al. 2009, Nurmagambetov 2018, Belova 2019 Osterman 2023, US Census and Frost & Sullivan analysis

# OMEGA-3 DHA

## LOWERS RISK OF COSTLY PRETERM BIRTHS

### Literature Review

Two recent Meta-analyses show with high certainty evidence that risk of a PTB is reduced given the use of Omega-3 by expectant mothers

- Best et al. 2022
  - 23,726 study participants across 36 qualified studies

### Benefits of Omega-3 DHA

12%

relative risk reduction of any type of PTB

35%

relative risk reduction of an early PTB

### Avoidable Preterm Births

40,568



Average number of Avoidable Preterm Births per year from 2023 to 2030 if all expectant mothers take Omega-3 DHA at preventive intake levels

### Avoidable Early Preterm Births

32,240



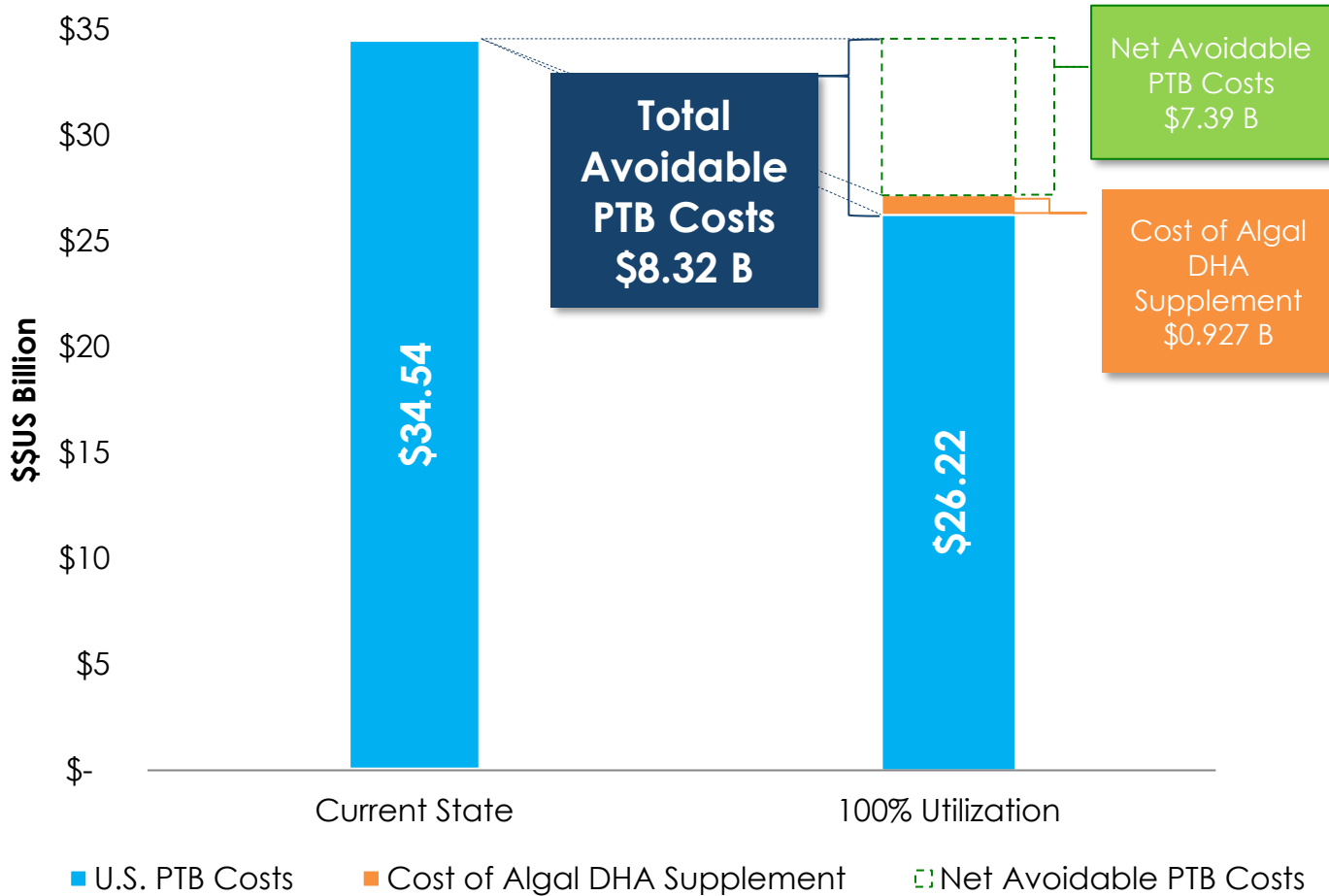
Average number of Avoidable Early Preterm Births per year from 2023 to 2030 if all expectant mothers take Omega-3 DHA at preventive intake levels

Source: Best 2022 and Frost & Sullivan analysis

# ALGAL OMEGA-3 DHA

## CAN LOWER COSTS ATTRIBUTED TO PRETERM BIRTHS

Benefits and Cost Drivers Related to Avoidable Preterm Births from Algal Omega-3 DHA Supplementation, \$USD Billion, United States, 2021



**NET SAVINGS PER YEAR**

**\$8 BILLION**

Average per Year, yrs. 22-30

**CUMULATIVE NET SAVINGS**

**\$67 BILLION**

Cumulative Net Savings, yrs. 23-30

Source: Frost & Sullivan analysis

A blue-tinted photograph of a person's hands gently holding a baby's feet. The image is used as a background for the contact card.

F R O S T & S U L L I V A N

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