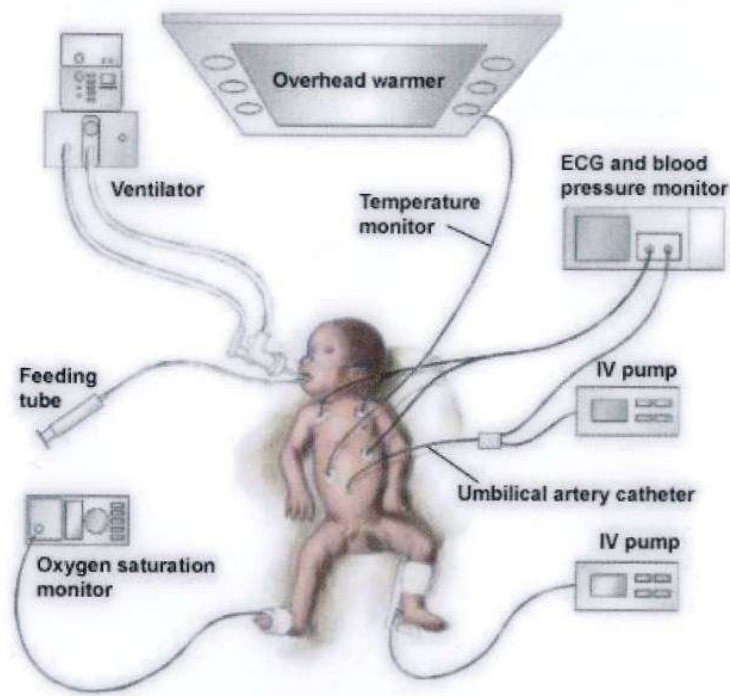


# INTENSIVE CARE



- **Resuscitation: YES**  
*Will include one or more of: bag and mask ventilation, continuous positive airway pressure (CPAP), intubation, mechanical ventilation, intravenous access, chest compressions and epinephrine*
- **Painful procedures: YES**
- **Duration of care for the baby:** Months in the NICU (neonatal intensive care unit).
- **Support Available: YES**

# PALLIATIVE COMFORT CARE



You will have the option of having keepsakes in memory of your baby.

- **Resuscitation:** NO  
*Your baby will receive warm blankets, and be placed with you in a comfortable room. Sugar water and other pain-relieving medications will be given if necessary.*
- **Painful procedures:** NO
- **Duration of care for the baby:** Minutes to hours
- **Support available:** YES

# INTENSIVE CARE



This is a photo of an extremely premature baby born at 24 weeks and receiving intensive care.



Extremely premature babies are only a little longer than an adult's hand.

# PALLIATIVE COMFORT CARE



Palliative care gives you time to hold your baby (can be skin-to-skin or in a warm blanket) and ensure comfort.



# INTENSIVE CARE OR PALLIATIVE COMFORT CARE ?

	INTENSIVE CARE	PALLIATIVE COMFORT CARE
Survival	Possible	No
Long-term Neuro- developmental Disability	Variable	N/A
Maternal Survival/ Physical Health	No	No
Impact on Quality of Life	Yes	Yes

# QUALITY OF LIFE (QOL)

Quality of life of surviving former very premature infants  
and of parents/caregivers of these surviving children

## PREMATURE INFANTS

*Most studies report minimal difference in self-reported QOL compared to full-term children*

- Chance of ongoing medical problems from being born extremely premature
- Chance of limits in ability to perform everyday tasks

## PARENTS / CAREGIVERS

*Studies report both negative and positive impacts compared to parents of full-term children*

- Emotional health
- Stress
- Family and marital bonds
- Confidence in parenting ability

# MATERNAL IMPACT

## SURVIVAL

- Dying during pregnancy is very rare
- Related to maternal health condition

## PHYSICAL HEALTH

- Choice for baby has no direct impact
- Related to maternal health condition
- Caesarean section

# THINGS THAT AFFECT SURVIVAL AND RISK OF DISABILITY

## SURVIVAL/DISABILITY COMPARED TO AVERAGE:

<i><b>WORSEN</b></i>	<i><b>IMPROVE</b></i>
<ul style="list-style-type: none"><li>• Lower birth weight</li><li>• Early in week of gestation</li><li>• No maternal steroids</li><li>• Male</li><li>• Multiples</li></ul>	<ul style="list-style-type: none"><li>• Higher birth weight</li><li>• Late in week of gestation</li><li>• Maternal steroids</li><li>• Female</li><li>• Singleton</li></ul>

Note: Some ultrasound findings (e.g. no amniotic fluid for weeks) can affect survival and/or the risk of disability.



# ADDITIONAL INFORMATION

Other potential points of interest for parents to discuss  
with their healthcare provider

## **NICU:**

- Visits
- How does it work? Who is involved?
- Being a parent of a child in the NICU
- Postnatal complications
- Feeding, including breast milk

## **Beyond the NICU:**

- Re-hospitalizations
- Other long-term outcomes

Note: There are other potential concerns or interests beyond the ones listed here. Parents are encouraged to ask their healthcare provider for more information.

# ADDITIONAL INFORMATION

## **Acronyms:**

- AOP – apnea of prematurity
- Anemia – anemia of prematurity
- BPD – bronchopulmonary dysplasia
- CLD – chronic lung disease
- EBM – expressed breast milk
- EOS/LOS – early or late onset sepsis
- IVH – intraventricular hemorrhage
- NEC – necrotizing enterocolitis
- PDA – patent ductus arteriosus
- RDS – respiratory distress syndrome
- ROP – retinopathy of prematurity
- TPN – total parenteral nutrition
- UVC – umbilical venous catheter

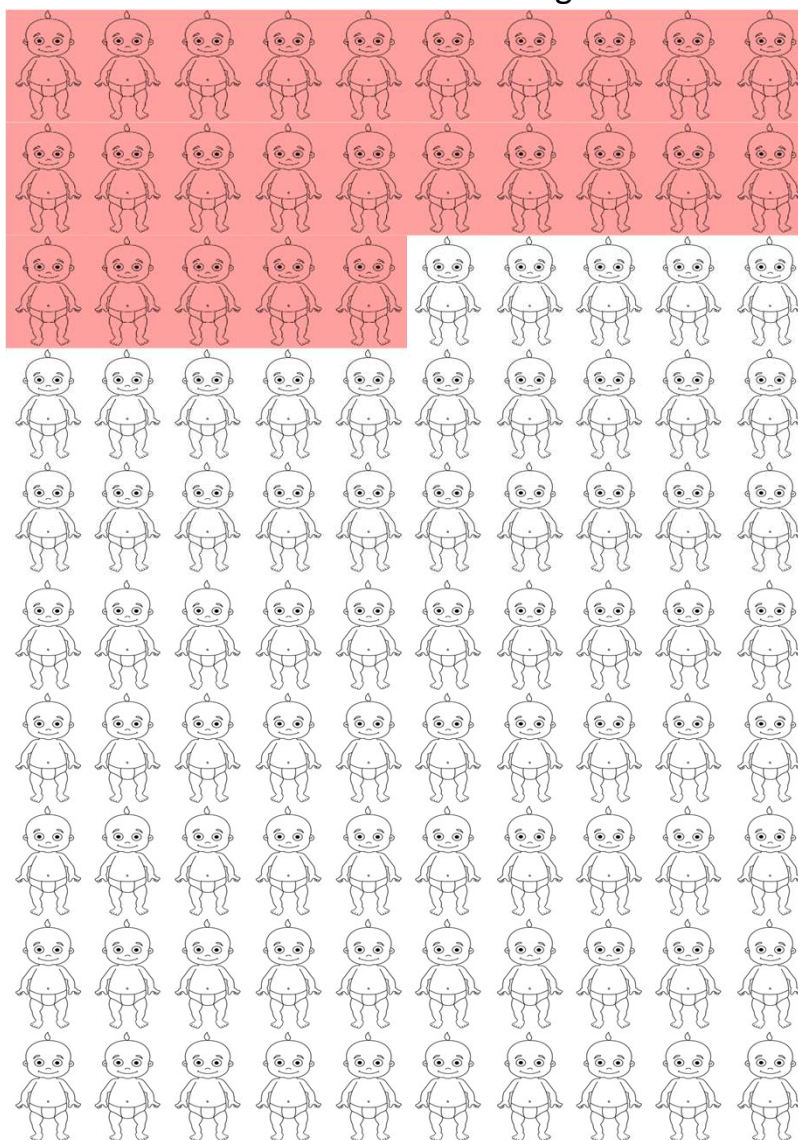
# SURVIVAL

## In Canada

22 WEEKS  
~500 g  
~1 pound, 1 ounce

**25 out of 100 babies will LIVE**  
**75 out of 100 babies will DIE**

Range: 19-31%



# **SURVIVAL**

**In Ottawa**

**22 WEEKS**

There is no accurate representation of the true probability of survival of babies born at 22 weeks in Ottawa due to the few numbers of babies born at 22 weeks.

Between 2015-2019, we have had 12 attempts at intensive care for babies born at 22 weeks in Ottawa.

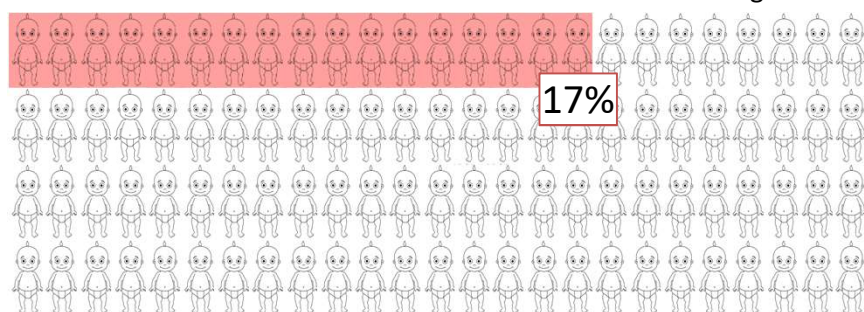
Of these attempts, 3 babies survived to discharge from the NICU.

# NEURODEVELOPMENTAL DISABILITY (NDD)

22 WEEKS

## SEVERE NDD

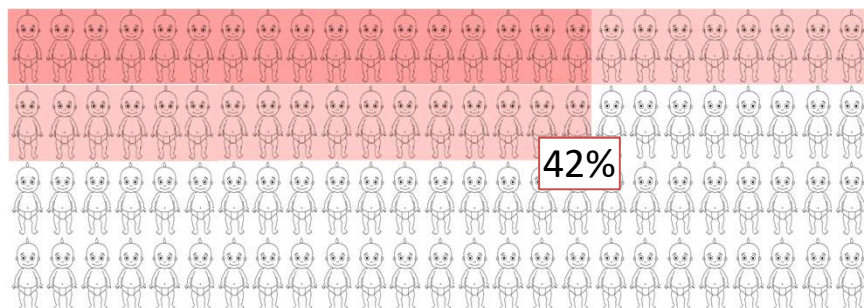
Range: 6-37%



Average

## MODERATE-OR-SEVERE NDD

Range: 23-64%



Average

*Data on this card calculated from 24 babies given intensive care  
at 22 weeks who survived to discharge.*

# SURVIVAL

## In Canada

23 WEEKS

~585 g

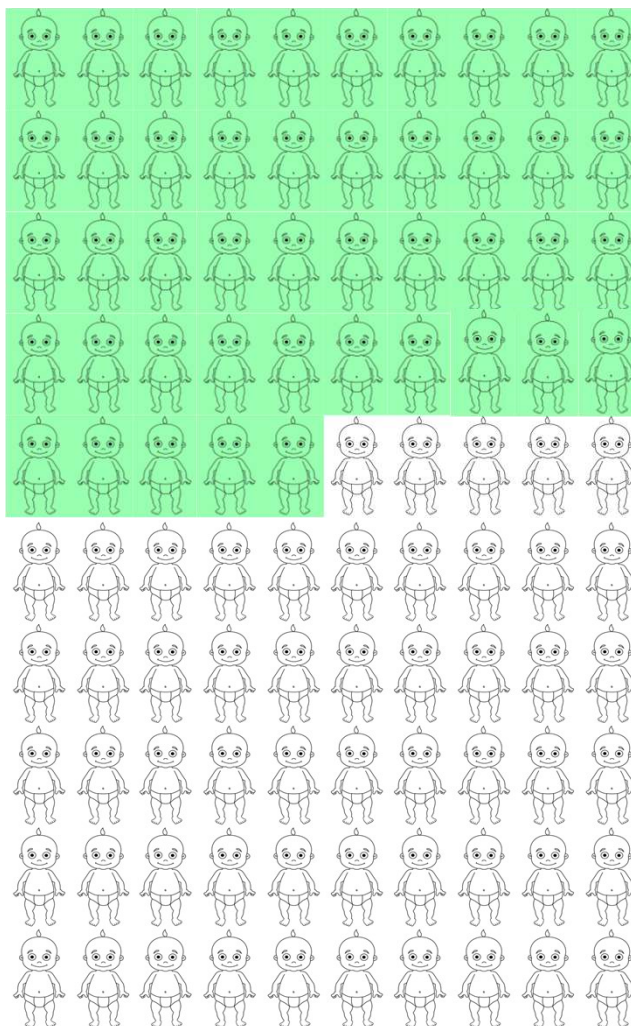
~1 pound, 5 ounces

Survival of babies born at 23 weeks who receive intensive care

**45 out of 100 babies will LIVE**

**55 out of 100 babies will DIE**

Range: 42-48%



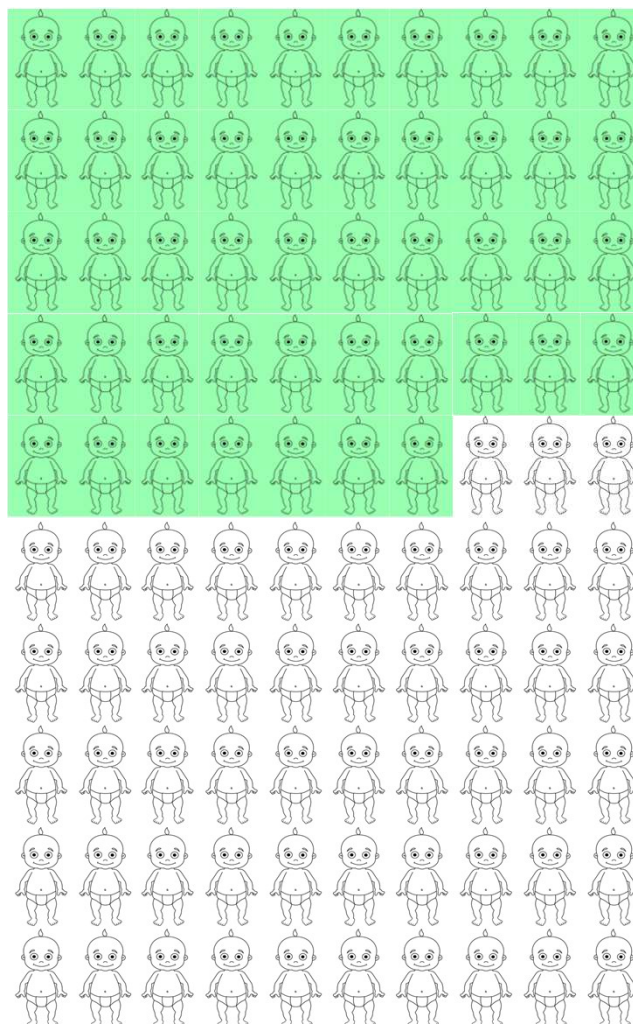


# SURVIVAL

In Ottawa

23 WEEKS

**47 out of 100 babies will LIVE**  
**53 out of 100 babies will DIE**



*\*These numbers are based on: 9 babies survived out of 19 babies who received intensive care at 23 weeks.*

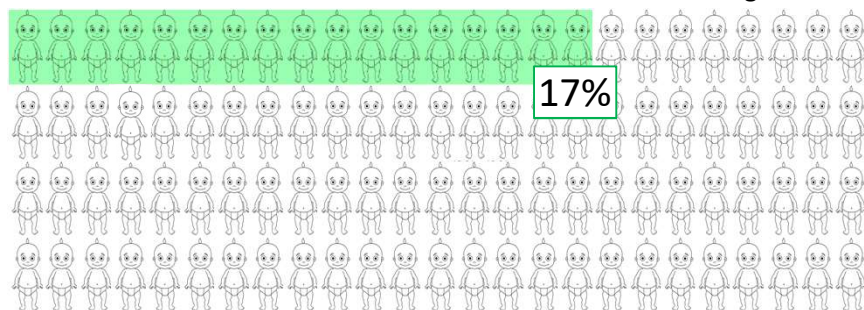
# NEURODEVELOPMENTAL DISABILITY (NDD)

23 WEEKS

Disability of babies born at 23 weeks who receive  
intensive care and survive

## SEVERE NDD

Range: 12-24%



Average

## MODERATE-OR-SEVERE NDD

Range: 31-52%



Average



# SURVIVAL

In Canada

24 WEEKS

~650 g

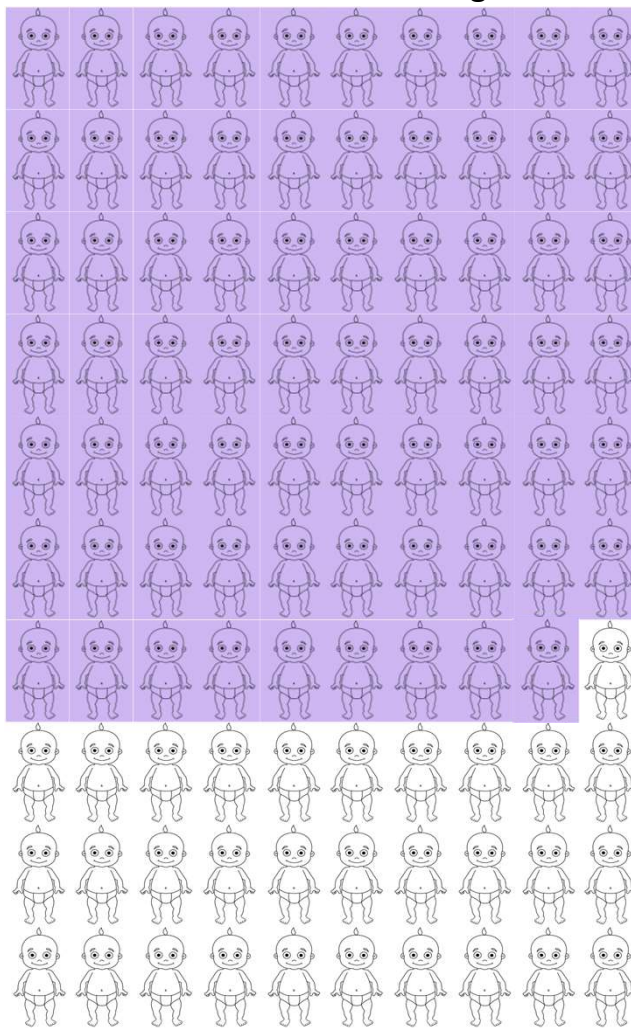
~1 pound, 7 ounces

Survival of babies born at 24 weeks who receive intensive care

**69 out of 100 babies will LIVE**

**31 out of 100 babies will DIE**

Range: 67-71%

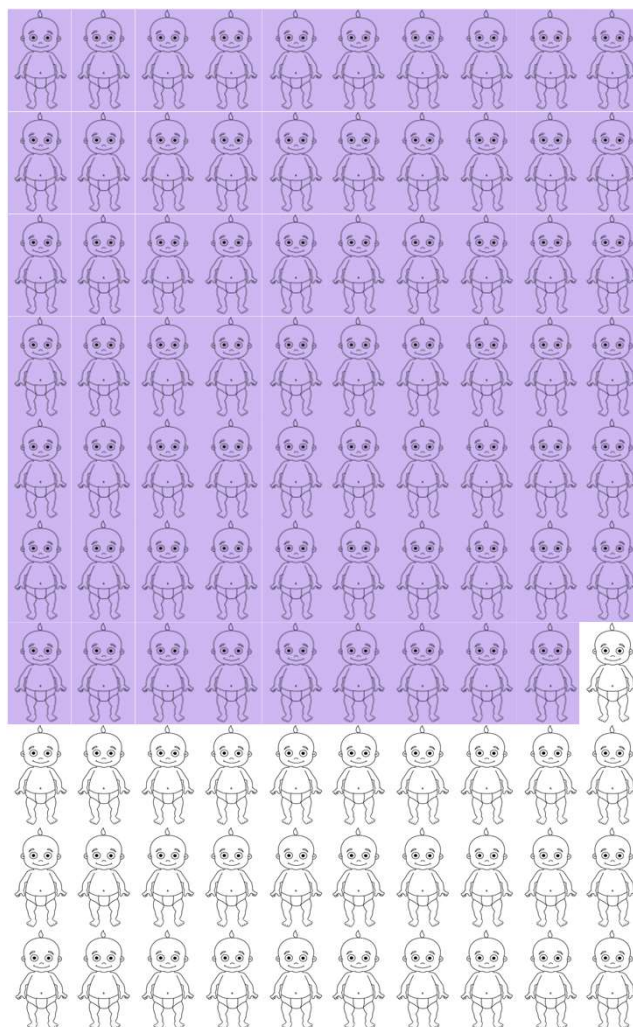


# SURVIVAL

In Ottawa

24 WEEKS

**69 out of 100 babies will LIVE**  
**31 out of 100 babies will DIE**



*\*These numbers are based on: 27 babies survived out of 39 babies who received intensive care at 24 weeks.*

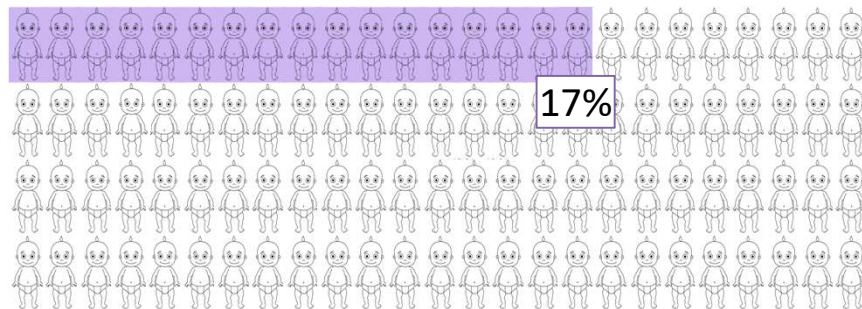
# NEURODEVELOPMENTAL DISABILITY (NDD)

24 WEEKS

Disability of babies born at 24 weeks who receive  
intensive care and survive

## SEVERE NDD

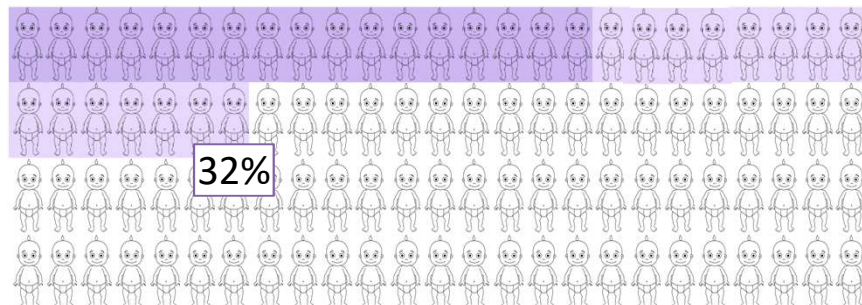
Range: 12-23%



Average

## MODERATE-OR-SEVERE NDD

Range: 25-39%



Average

# SURVIVAL

## In Canada

25 WEEKS

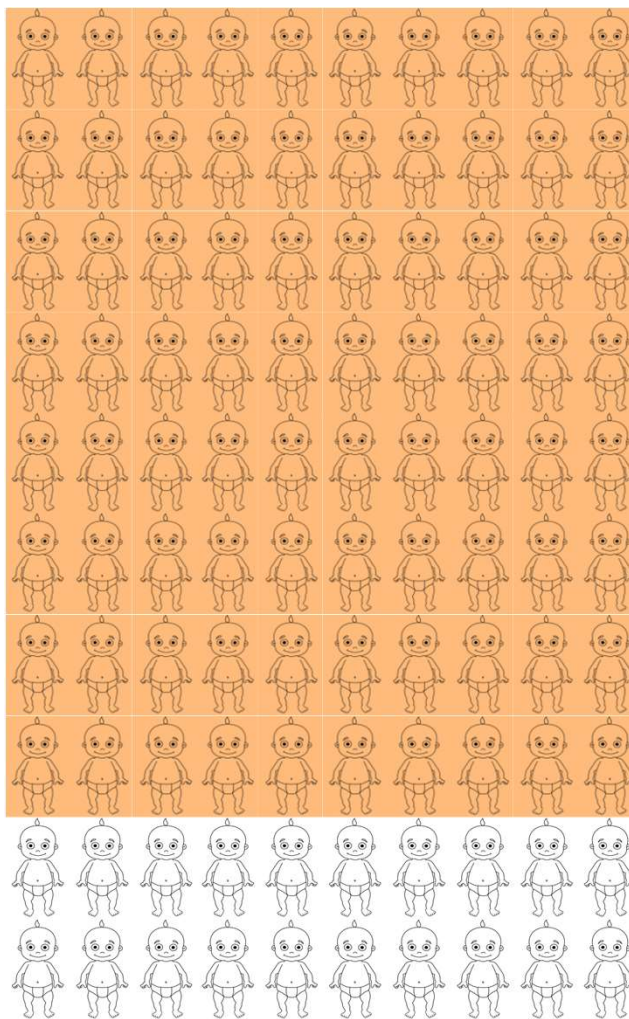
~750 g

~1 pound, 10 ounces

Survival of babies born at 25 weeks who receive  
intensive care

**80 out of 100 babies will LIVE**  
**20 out of 100 babies will DIE**

Range: 78-82%



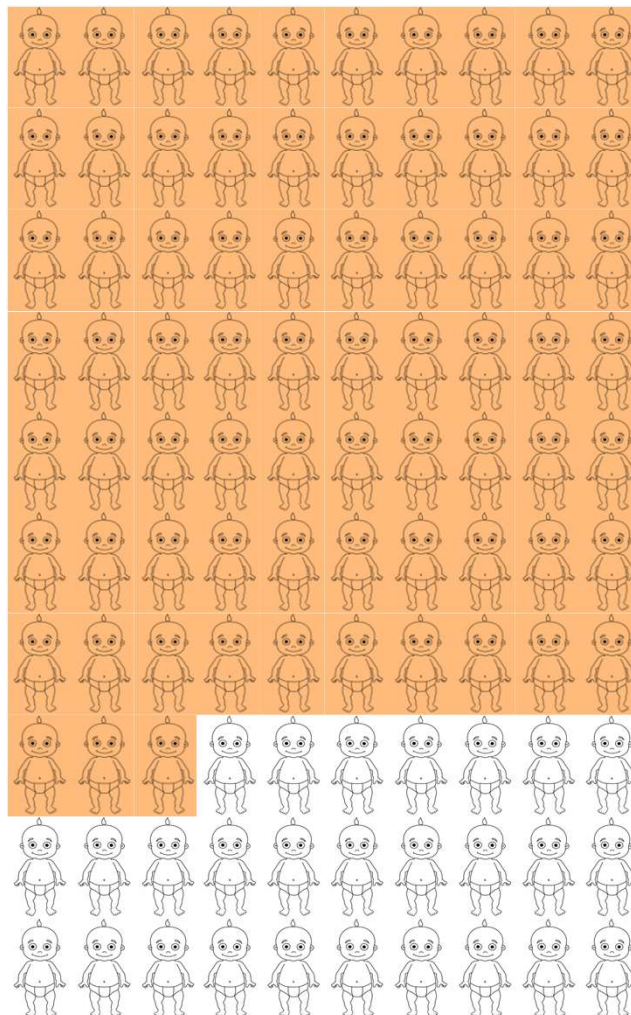


# SURVIVAL

In Ottawa

25 WEEKS

**73 out of 100 babies will LIVE**  
**27 out of 100 babies will DIE**



*\*These numbers are based on: 36 babies survived out of 49 babies who received intensive care at 25 weeks.*

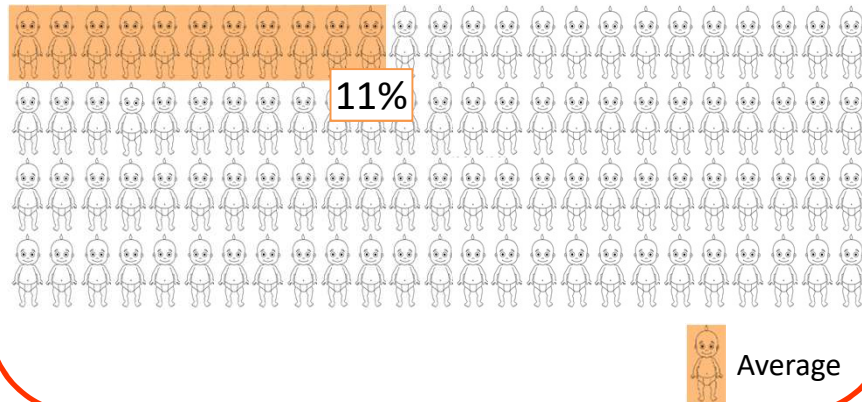
# NEURODEVELOPMENTAL DISABILITY (NDD)

25 WEEKS

Disability of babies born at 25 weeks who receive  
intensive care and survive

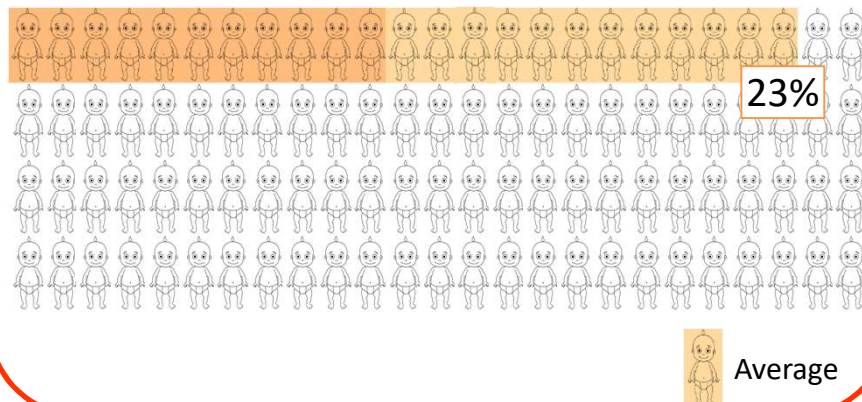
## SEVERE NDD

Range: 7-16%



## MODERATE-OR-SEVERE NDD

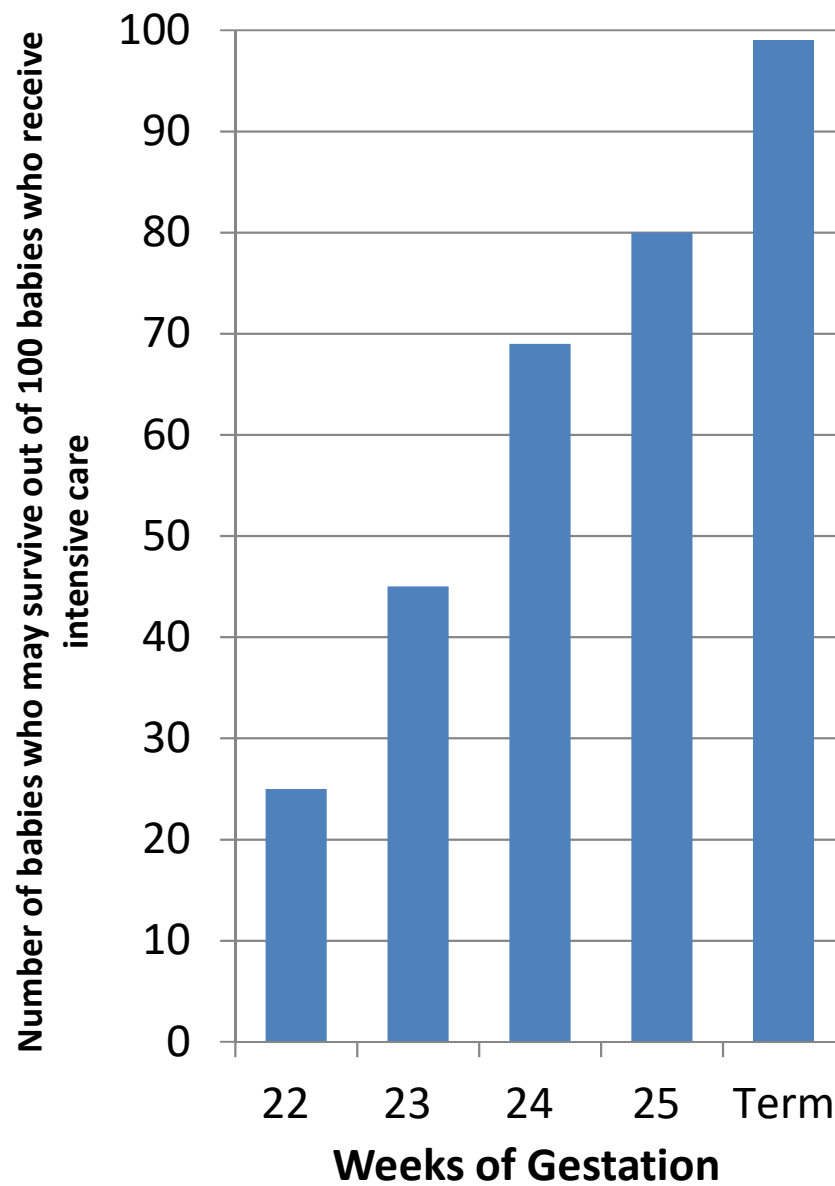
Range: 18-29%



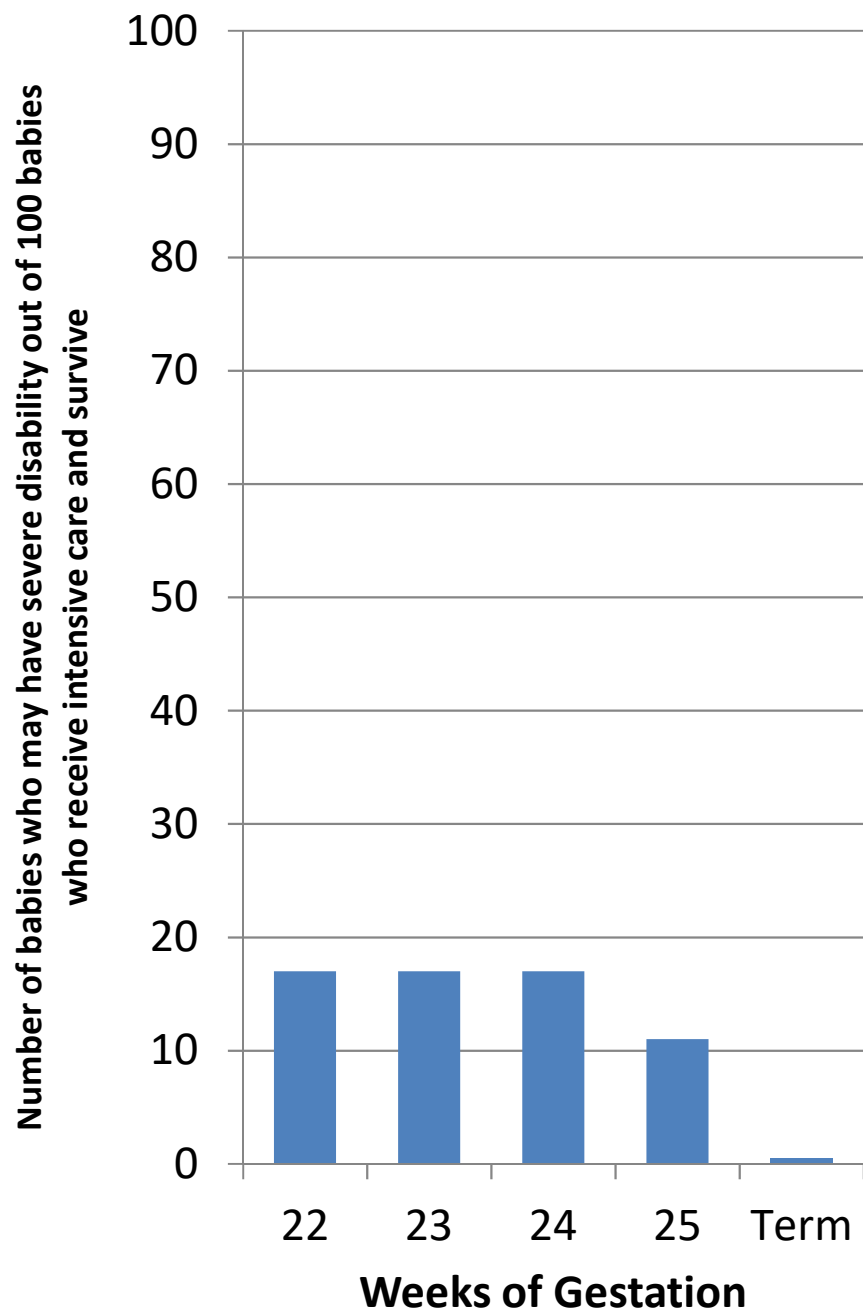
# SURVIVAL

INCREASES BY  
GESTATIONAL AGE

~2010-2018 survival data from Canadian Neonatal Network~



# SEVERE NDD





# MODERATE-OR-SEVERE NDD

