

## Growth Assessment of the Breastfed Baby: Comparing WHO vs CDC Growth Charts

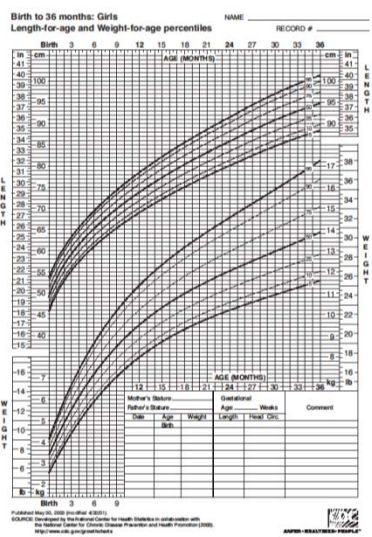
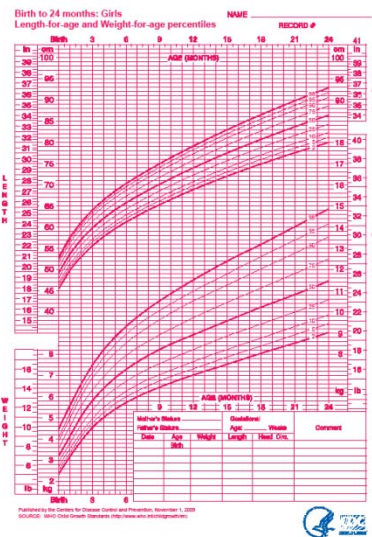
Dr. Christopher Pezzullo, DO  
Heidi Morin MS, RD, LD, CLC  
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## CDC 2016 Breastfeeding Report Card

	Maine	National	Healthy People 2020
<b>Ever Breastfed</b>	86.6%	81.1%	81.9%
<b>Breastfeeding at 6 months</b>	61.1%	51.8%	60.6%
<b>Breastfeeding at 12 months</b>	42.2%	30.7%	34.1%
<b>Exclusive breastfeeding at 3 months</b>	53.7%	44.4%	46.2%
<b>Exclusive breastfeeding at 6 months</b>	32.0%	22.3%	25.5%
<a href="https://www.cdc.gov/breastfeeding/data/reportcard.htm">https://www.cdc.gov/breastfeeding/data/reportcard.htm</a>			

## Comparison of WHO and CDC Growth Charts



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3

## Comparison of CDC and WHO Growth Charts

### WHO 0-24 Months Growth Charts

Data from Multicenter Growth Reference Study 1997-2003

- Longitudinal data with weight/length measurements at 1, 2, 4, 6, and 8 weeks; and 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, and 24 months
- 18,973 observations for 903 children

### CDC Birth – 36 Month Growth Charts

Data from NHANES from 1971-1994; Vital statistics in Missouri and Wisconsin

- Cross-sectional data on weight/length starting at 2 months; mathematical model connects birth measurements to survey data
- 4,697 observations for 4,697 children

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4

## Comparison of CDC and WHO Growth Charts

### WHO 0-24 Months Growth Charts

#### Exclusion criteria:

- Low SES
- Born at high altitude
- <37 wks or >42 wks gestation
- Multiple births
- Perinatal morbidities
- Health conditions affecting growth
- Maternal smoking
- Not breastfed to 12 mo. of age
- Complementary foods introduced before 4 mo. or after 6 mo.
- Weight-for-length measurements > 3 SD away from median for sex

### CDC Birth – 36 Month Growth Charts

#### Exclusion criteria:

- Very low birth weight (<1500g; < 3lbs 5 oz.)

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5

## Comparison of CDC and WHO Growth Charts

### WHO 0-24 Months Growth Charts

#### Infant feeding:

- 100% ever breastfed
- 100% predominantly breastfed at 4 months
- 100% breastfed at 12 months
- Complementary foods introduced, on average, at 5 ½ months of age

### CDC Birth – 36 Month Growth Charts

#### Infant feeding:

- 50% ever breastfed
- 33% breastfed at 3 months

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6

## Comparison of CDC and WHO Growth Charts

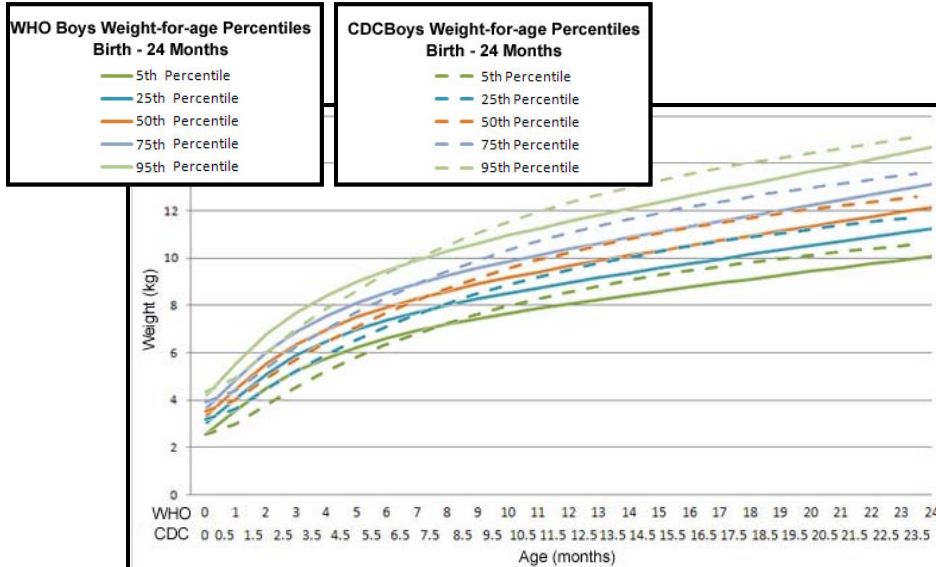
What is considered normal, healthy range?

- WHO 0-24 months
  - 2%ile – 98%ile
- CDC Birth-36 months
  - 5%ile – 95%ile

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7

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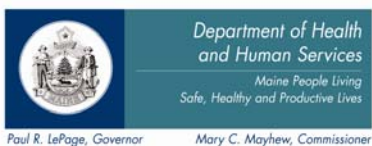
8



## Questions?

**Dr. Christopher Pezzullo**  
**State Health Officer,**  
**Maine DHHS**  
[Christopher.Pezzullo@maine.gov](mailto:Christopher.Pezzullo@maine.gov)  
Office: 207-287-5044

**Heidi Morin**  
**WIC Dietitian**  
[Heidi.Morin@maine.gov](mailto:Heidi.Morin@maine.gov)  
Work cell: 207-485-5362



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11