


## Infants and Children Growth Assessment



IL WIC Program  
Risk Factor Changes  
July 1, 2012

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## OBJECTIVES

- State the Center for Disease Control (CDC) new growth chart recommendations for birth to 24 months incorporating the WHO growth standards.
- Describe why children 2-5 years will continue to be monitored using the 2000 CDC age/gender specific growth charts.
- Explain how the State agency MIS system will electronically plot growth grids for infants and children and auto assign correct risk factor (s) based on new USDA anthropometric risk criteria.

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## OVERVIEW

- 2006 World Health Organization (WHO) released new international **growth standards** for children ages birth to 5 years.
- Centers for Disease Control and Prevention (CDC), the National Institute for Health (NIH), and the American Academy of Pediatrics (AAP) developed the following recommendations:
  - WHO **growth standard** charts: birth to 2 years
  - CDC **growth reference** charts: 2 - 19 years

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## WHO Growth Standard Charts



- Cutoff values 2<sup>nd</sup> and 98<sup>th</sup> percentile
- Describe growth under optimal environmental conditions.
- Included healthy infants who were well-fed according to international recommendations.
- Designed to be an international standard for infants and young children.
- Provide a standard against which all infants should be compared.
- Create an opportunity for providers to identify and address environmental conditions that might be negatively affecting growth.

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## CDC Growth Reference Charts

- Cutoff values 5<sup>th</sup> and 95<sup>th</sup> percentile
- Indicate how children grew in a particular place and time.
- Do not imply that the pattern of growth they represent is healthy.
- Describe the growth of children in the United States.



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*Starting July 1, 2012  
IL WIC Program will auto plot and  
auto assign growth assessment risk  
factors for infants and children!*

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### Risk Factor Changes

Cornerstone Code	Risk Factor	Definition
Do1o	Underweight	Birth to 23 months: weight-for-length $\leq$ 2 <sup>nd</sup> percentile
Do1o	At Risk of Underweight	Birth to 23 months: weight-for-length 2 <sup>nd</sup> – 5 <sup>th</sup> percentile  2-5 years: BMI for age 5 <sup>th</sup> – 10 percentile
Eo1o	High Weight for Length <i>(new risk factor for infants)</i>	Birth to 23 months: weight-for-length $\geq$ 98 <sup>th</sup> percentile

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### Risk Factor Changes

Cornerstone Code	Risk Factor	Definition
Fo1o	Short Stature for Age	Birth to 23 months: Length-for-age $\leq$ 2 <sup>nd</sup> percentile  2-5 years: Stature-for-age $\leq$ 5 <sup>th</sup> percentile
Fo2o	At Risk of Underweight	Birth to 23 months: Length-for-age 2 <sup>nd</sup> – 5 <sup>th</sup> percentile  2-5 years: Stature-for-age 5 <sup>th</sup> – 10 percentile
Mo2o	Low Head Circumference	Birth to 23 months: $\leq$ 2 <sup>nd</sup> percentile head circumference for age

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### Scenario 1

- Christopher born at 32 weeks gestation.
- Exclusively breastfed for 12 weeks & currently nursing with supplementation.
- Birth weight: 4 pounds 18 inches
- Head circumference: 32 inches
- Current Age (Cert Visit): 12 weeks
- Adjusted Age (Age plotted on new growth chart): 4 weeks

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### Plotting Christopher's Growth Birth to 24 months: Boys

Scheduled Appointment (CS Service Entry Code)	Current Age (months)	Adjusted Age (months)	Weight (pounds)	Length (inches)	Head Circ. (inches)
Certification WICI	3	1	10	20	33
Follow-up WKC	6	4	16	23	38
Certification WICT	12	10	23	28	43

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### Growth Assessment Risk Factors Christopher

- WICI
  - High weight for length
  - Short Stature
  - Low birth weight
  - Prematurity
  - Low head circumference
- WICT
  - Low head circumference
  - High weight for length

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### Scenario 2

- Allison 40 weeks gestation.
- Formula fed
- Birth weight: 9 pounds 21 inches
- Head circumference: 36 inches
- Current Age (Cert Visit): 2 weeks

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**Plotting Allison's Growth  
Birth to 24 months: Girls**

Scheduled Appointment (CS Service Entry Code)	Age (months)	Weight (pounds)	Length (inches)	Head Circ. (inches)
Certification WCI	Birth	9	21	36
Follow-up WKI	6	20	26	43
Follow-up WKI	9	22	28	45
Certification WICT	12	25	30	47

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- Growth Assessment Risk Factors  
Allison**
- WCI
    - Large for Gestational Age
  - WICT
    - High weight for length

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*Growth charts will automatically transition based on Cornerstone age calculation and gender.*

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### Plotting Christopher's Growth 2 to 20 years: Boys

Scheduled Appointment (CS Service Entry Code)	Age (years/months)	Weight (pounds)	Stature (inches)	BMI (percentages)
Certification WICC	2 y 6 m	30	33	> 95 <sup>th</sup>
Follow-up WKC	3 y	32	36	75 <sup>th</sup> - 85 <sup>th</sup>
Certification WICC	3 y 6 m	34	38	50 <sup>th</sup> - 75 <sup>th</sup>

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### Growth Assessment Risk Factors Christopher

- WICC
  - High BMI for age
- WICC
  - No growth risk factors assigned

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### Plotting Allison's Growth 2 to 20 years: Girls

Scheduled Appointment (CS Service Entry Code)	Age (years/months)	Weight (pounds)	Stature (inches)	BMI (percentages)
Certification WICC	2 y	34	36	90 <sup>th</sup>
Follow-up WKC	2 y 6 m	36	37	90 <sup>th</sup> - 95 <sup>th</sup>
Certification WICC	3 y	38	39	85 <sup>th</sup> - 90 <sup>th</sup>

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**Growth Assessment Risk Factors**  
**Allison**

- WICC
  - At Risk for Overweight
- WICC
  - No growth risk factors assigned

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*Thank you for participating!*

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