# Diagnostic Tools

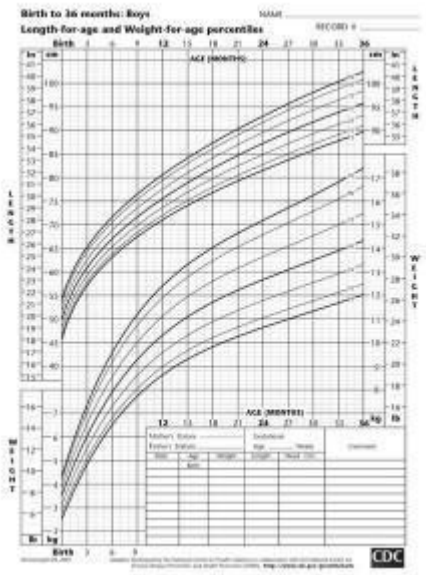
## Diagnostic Tools

This section has been designed to assist you in using and understanding the diagnostic tools used in immunological testing and clinical practice. Where possible we have also made available useful downloadable resources.

If you would like to have a specific diagnostic tool featured please Contact Us.

- Growth Charts
- WHO Clinical Staging
- Algorithms
- Welcome Classification
- Degrees of Dehydration
- Childhood Myositis Assessment Scale Scoring

## Growth Charts



# Download All Growth Charts

## All Growth Charts

1 file(s) 394.33 KB
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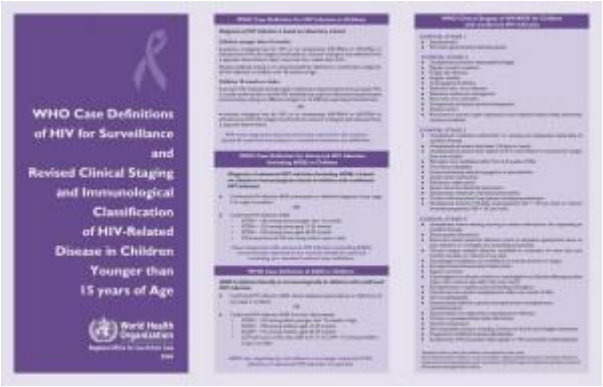
# WHO Clinical Staging



# Download WHO HIV Clinical Staging in Children Younger than 15 years

## WHO HIV Clinical Staging

1 file(s) 118.03 KB
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## Algorithms

General features:

| Primary: General | 0 | 1 | 2 | 3 | 4 | Score |
|---|---|---|---|---|---|---|
| Weeks of illness | <2 | 2-4 | | >4 | | |
| Nutrition (% weight for age) | >80% | 60-80% | | <60% | | |
| Family history of TB | None | Reported by family | | Proved (sputum positive) | | |
| Mantoux test | | | | Positive | | |
| Malnutrition | | | | Not improved after 1 month Rx | | |
| Unexplained fever | | | No response to Rx | | | |

Local features:

| Primary: Local | 0 | 1 | 2 | 3 | 4 | Score |
|---|---|---|---|---|---|---|
| | | | | Lymph nodes | | |
| | | | | Joint or bone swelling | | |
| | | | | Abdominal mass or ascites | | |
| | | | | CNS signs, CSF abnormal | | |
| X-rays | | | | Broad mediastinum due to enlarged lobar glands | Gibbus | |

Total = score for general features + score for local features (any score ≥7 is suggestive of TB)

# Welcome Classification

| | **60-80% of standard weight** | **Less than 60% of standard weight** |
|---|---|---|
| No oedema | Underweight, nutritional dwarfing, growth retardation | Marasmus |
| Oedema | Kwashiorkor | Marasmic |
| | | Kwashiorkor |

# Degrees of Dehydration

**Methods for Assessing Degree of Dehydration**

| | Degree of dehydration | | | |
|---|---|---|---|---|
| **Factor** | **Normal** | **<4%** | **5-8%** | **>10%** |
| Capillary refilling time | 0.8 seconds | (1.5 seconds | 1.5 - 3.0 seconds | >3.0 seconds |
| Elevated BUN (normal BUN 2.5-5.4 mmol/L ) | <9.5 mmol/L | 9.5 to 8.4 mmol/L | 7.5 to 4.5 mmol/L | >8.5 mmol/L |
| Skin turgor | Normal | Slightly decreased | Decreased | Decreased (peak returns slowly >2 seconds) |
| Deep and rapid, acidotic breathing (pH <7.35, decreased bicarbonate) | Normal | Slightly increased respiratory rate | Increased respiratory rate | Breathing is deep and rapid |
| **General state** | | | | |
| Infants and young children | | Thirsty, alert, restless | Restless or lethargic; irritable to touch | Listless, drowsy; may be comatose; cyanotic extremities (cold sweats) |
| Older children | | Thirsty, alert, restless | Thirsty, alert, postural hypotension | Usually conscious; wrinkled skin at fingers and toes (spindle); extremities (cold sweat) |
| Pulse | | Slight increase; normal strength | Rapid and weak | Rapid, feble, sometimes impalpable |
| Systolic blood pressure | | Normal | Decreased | May be unrecordable |

BUN=blood urea nitrogen

NOTE: Clinical findings are most reliable when the examination is performed by two or more different physicians.

Other helpful but not specific signs include sunken fontanel, absent tears, decreased urine output, sunken eyes, intra and dry mucous membranes.

## Download Degrees of Dehydration Guide

## Degrees of Dehydration

1 file(s) 55.70 KB
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## Childhood Myositis Assessment Scale Scoring

The Childhood Myositis Assessment Scale (CMAS) was developed to assess muscle function in the areas of strength and endurance across a wide range of abilities and age groups in children with juvenile dermatomyositis (JDM) and polymyositis. There are 14 ordinal items included which were chosen to assess primarily axial and proximal muscle groups and are ranked with standard performance and scoring methods. The CMAS has a potential range of 0-52 with higher scores indicating greater muscle strength and endurance. CMAS scoring sheet was developed by Robert Rennebohm, MD.

## Download CMAS Guide

# Childhood Myositis Assessment Scale

1 file(s) 319.95 KB

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