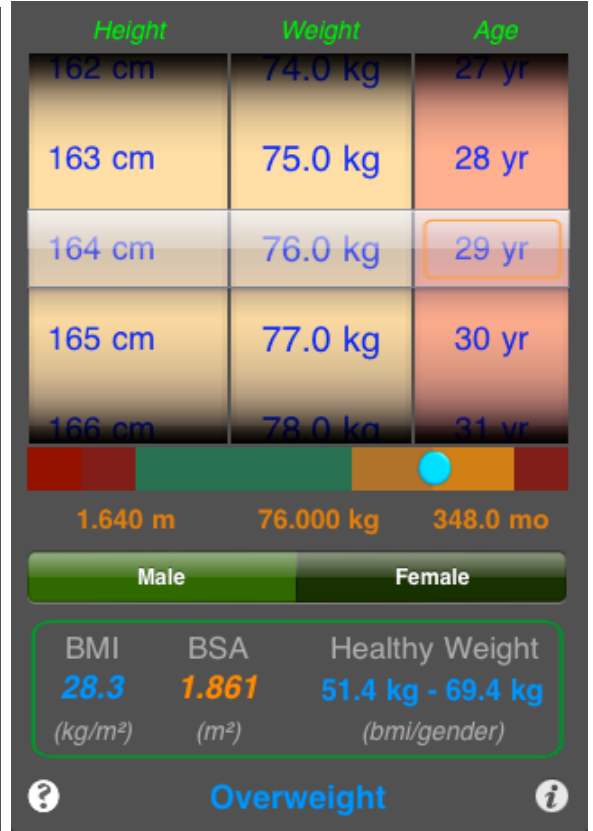
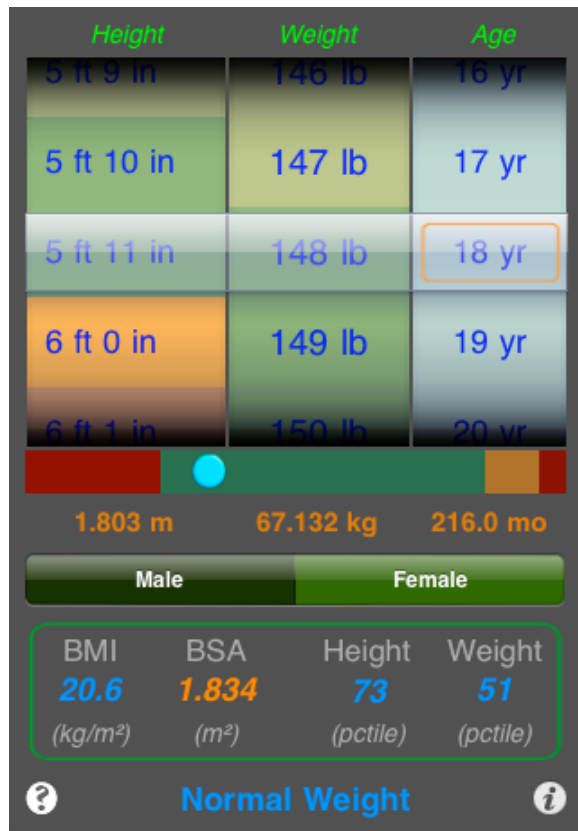


BODYMETRICS

November 17, 2009

Body Metrics is a iPhone / iPod Touch application designed for Health Care Professionals.



Body Metrics CDC Growth / BMI / BSA Calculator

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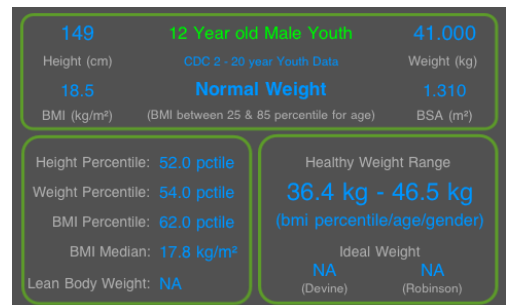
Body Metrics is a BMI / BSA calculator designed for the health care professional. Quick, easy to use, instantly determine a patients BMI and more importantly whether that BMI falls within a healthy range. The specifics of all calculations and ranges are provided in the included help manual, so you know exactly how the results are derived. The clinician can quickly determine what percentile the patient falls within via the colour coded spinners. Optionally, the percentiles can be added as labels to the spinners. Selecting a different gender, automatically adjusts all the relevant information and characteristics of the BMI curve.

All calculations for infant and youth are based on CDC datum, so the health practitioner can access not only CDC based BMI for age, but also height and weight percentiles quickly.

All calculations are performed in metric, but of course the health care professional can enter the data in either metric or imperial units and display the results in either system as well.

One of the primary goals in the design was to keep it simple and

fast, so the clinician can quickly refer to the information without being distracted from the patient, in fact use Body Metrics as a means to further patient education.



The Details ... Body Metrics

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The clinician is presented with a series of spinners that allow for the capture of height / length, weight and age. The spinners are colour coded allowing for a quick assessment of where the patient falls within the CDC Growth percentiles. Double tapping on the age, instantly aligns the spinners to the nearest 50 percentiles for a particular age. To orient the user quickly, the age wheel is colour coded to gender, light blue male, salmon colour, female.

Adjusting the age instantly adjusts the CDC Growth percentiles reflected in the height and weight spinners. Optionally, the actual percentile range can be displayed on the spinner wheels in addition to the standard colour coding. This is often helpful when first using the application to become familiar with the colour scheme.

The coloured bar directly under the spinner displays the healthy weight ranges. As with all parts of the application, this indicator is gender and age specific, with the actual calculations / ranges detailed in the help manual. This graph allows the clinician to quickly determine where the patient falls within the spectrum of BMI range. Since the bar graph uses BMI, height and weight are automatically factored in, along with age and gender. It should be noted that CDC BMI percentiles are used for infant and youth results, where as standardized BMI charts are utilized for adults. Once again, all this information is detailed in the help manual.

The orange values directly under the coloured bar, are the actual values used



A complete manual detailing the usage, references and all calculations.

Body Metrics can be found in the Apple iTunes Store under the Medical category, or simply by searching for "Body Metrics"



in the calculations. They are always in metric, regardless of the selected units. Each of these values can be tapped to enter in exact values and allow for on the fly conversion. Tapping either height or weight brings up a data entry screen with a keyboard, conversion tabs, and of course data entry fields.

Tapping on the age field brings up the birthday calculator, allowing direct entry of a patients birthday. The application automatically calculates the age in months.

As with the entire application, changing the gender adjusts all calculations and datum, with the results displayed instantly.

The results box displays base information such as BMI and BSA, but additionally displays either the healthy

weight range for adults, or the percentiles for infants and youths. Selecting the BSA field slides in another screen that provides for a quick dosage calculator based upon the BSA. Three methods are provided for calculating the BSA.

Orienting the device in landscape mode provides a summary of the patient, showing a number of key values based upon the provided data. Calculations such as Ideal Weight, Lean Body Weight, BMI median, etc., are included and can be accessed by simply tilting the device sideways.

In designing this application, our software engineers did their best to minimize the number of screens, touches and gestures, yet provide the clinician with relevant, accurate information quickly.

matrix information systems inc.

St. Albert • Alberta • Canada • T8N 1X5

<http://www.matrixis.net>

phone: 1.780.965.8295
fax: 1.780.460.8225

support: support@matrixis.net
sales: sales@matrixis.net

Feedback ...

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If you have suggestions for improvements, find inconsistencies or bugs, please do not hesitate to contact us. We really appreciate your feedback, and will make every effort to incorporate your suggestions into any future work.

Having developed a number of mobile applications, if your institution is interested in creating site specific products please contact us to discuss the options. There are lots of options available, some that may allow your institution to implement a specific application at little or not direct cost to you.