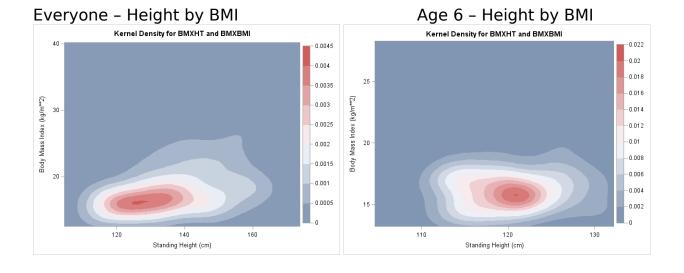
Attachment J - Height and weight percentile

Height by Body Mass Index (BMI)

The first variable comparison reviewed was standing height in centimeters to BMI. The following contour plots show the distributions by gender and age between standing height and BMI. These plots take into account the survey weights for the NHANES data. Please note that these plots do not have the axes fixed between plots so that the population distributions for each age can be shown better.

Males

The following contour plots are for males ages 6 to 12. The initial plot is all males age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.



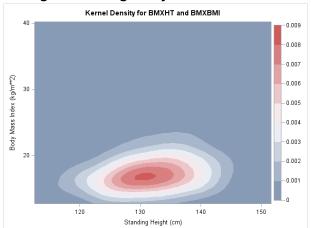
Age 7 - Height by BMI

Kernel Density for BMXHT and BMXBMI 0.009 35 0.008 -0.007 30 Body Mass Index (kg/m**2) 0.006 0.005 25 -0.004

130

Standing Height (cm)

Age 8 - Height by BMI



Age 9 - Height by BMI

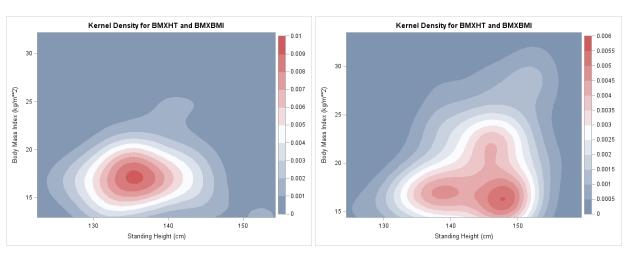
120

20

15

110

Age 10 - Height by BMI



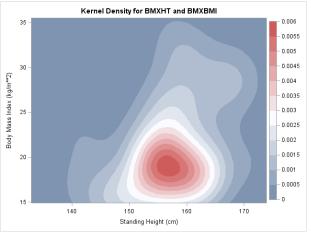
-0.002 0.001

140



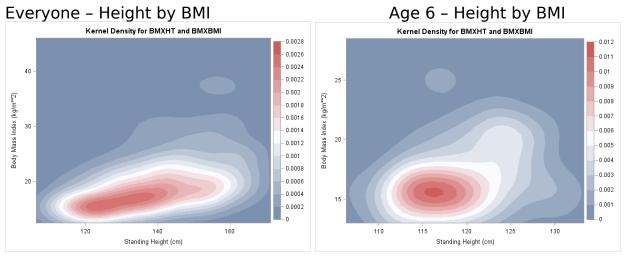
Kernel Density for BMXHT and BMXBMI 0.005 0.0045 30 0.004 0.0035 Body Mass Index (kg/m**2) 25 0.003 0.0025 20 0.001 15 0.0005 160 Standing Height (cm)

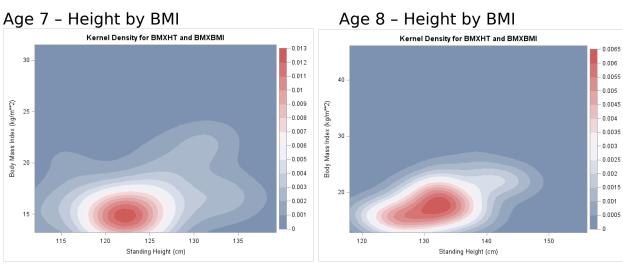
Age 12 - Height by BMI



Females

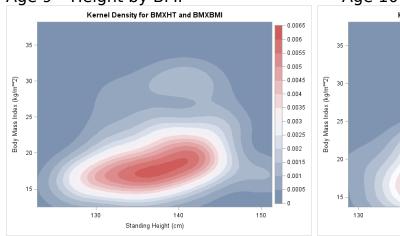
The following contour plots are for females ages 6 to 12. The initial plot is all females age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

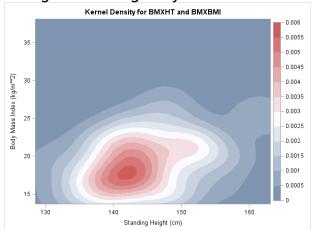






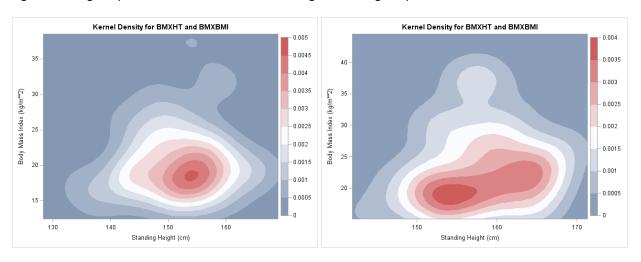
Age 10 - Height by BMI





Age 11 - Height by BMI

Age 12 - Height by BMI



Height by Weight

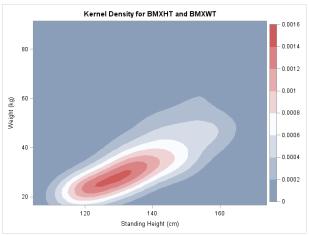
The second variable comparison reviewed was standing height in centimeters to weight in kilograms. The following contour plots show the distributions by gender and age between standing height and weight. These plots take into account the survey weights for the NHANES data. Please note that these plots do not have the axes fixed between plots so that the population distributions for each age can be shown better.

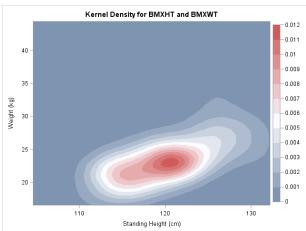
Males

The following contour plots are for males ages 6 to 12. The initial plot is all males age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

Everyone - Height by Weight

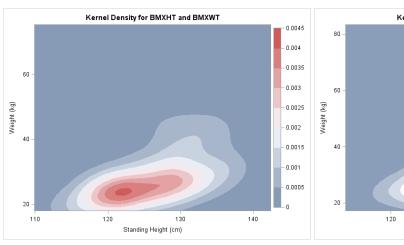
Age 6 - Height by Weight

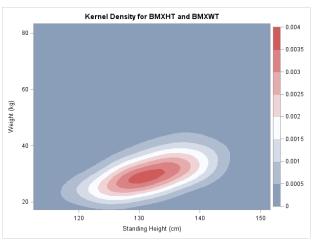




Age 7 - Height by Weight

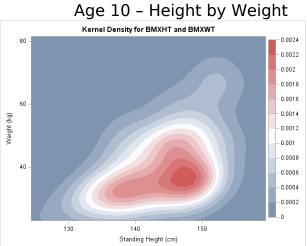
Age 8 - Height by Weight





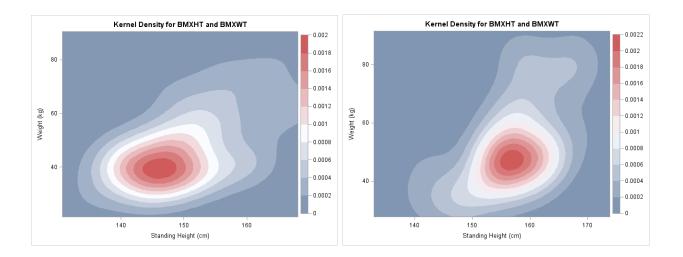
Age 9 – Height by Weight

| Comparison of the co



Age 11 - Height by Weight

Age 12 - Height by Weight



Females

The following contour plots are for females ages 6 to 12. The initial plot is all females age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

