The BMI system has been successfully designed, tested and used for data collection and comparison for system authentication. The Manual and automated data comparison for 60 students, that is, 22 males and 38 females were illustrated in the graphs above. The difference in the bar-chart correlation for each data between the manual and automated value is as a result of improper positioning of the object and the human error in reading the stadiometer and weighing balance.

4. CONCLUSION

The BMI of a person helps to maintain the healthy lifestyle and indicates the serious health diseases. Many studies said that BMI machine is a health indicator. The designed ABMI is found to be very accurate because it has been used and compared with manual system. The adoption and use of electronic principle of ABMI machine will reduce the hustling and errors which may due human during the operation of manual device and calculation. The ABMI can also be applied as a statistical device to determine the human health related status.

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