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RESEARCH ARTICLE

CONICITY INDEX AS INDICATOR NUTRITIONAL STATUS

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ABSTRACT

Conicity index is an index of central obesity, it helps in measure of abdominal obesity .conicity index and WHR as predicators of blood pressure level, in relation in weight and height conicity index help to evaluate waist circumference. central fat distribution is increased risk of ill health, as a whr it helps to find androgenic risk factors. central obesity is a discriminatory power to estimate to cardiovascular diseases. Subjects adolescents girls baudi village of west Medinipur, 1000 girls of 10 years to 18 years, different anthropometric measurements are taken for that study, Girls are divided into 2 categories premenaercheal girls and postmenarcheal girls, this study will show if there are any effect abdominal fat on menarche.

Methodology: For this study height, weight, waist hip circumferences are measured, weight is measured by weighing machine, height is measured by stadiometre, other circumferences are measured by still tapes, weight will be taken by bare foot. Height is taken by measuring length from floor to vertex. Result: Age wise of conicity is change and it is significant,post menarcheal girls conicity index are higher "percent body fat has positive correlation with conicity index but conicity mean with every age not increase to much, but body mass index are negative corelation with conicity index.conicity index is indicator central obesity but mean of this conicity index is low so that study girls not centrally obese.

Discussion: conicity indicator of central obesity, here conicity index mean value is low so there are lack of chances of children cardio vascular disease in future but posmenarcheal gilrs has higher conicity index, but body mass index not related to conicity index so it is clear that if body mass index higher it does not mean central obesity will be high.

Key words: Posmenarcheal, Conicity index, Subjects adolescents.

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INTRODUCTION

Conicity index is an index of central obesity, it helps in measure of abdominal obesity. conicity index and WHR as predicators of blood pressurelevel, in relation in weight and height conicity index help to evaluate waist circumference. central fat distribution is increased risk of ill health, as awhr it helps to find androgenic risk factors. central obesity is a discriminatory power to estimate to cardiovascular diseases. To understand the various abdominal obesity measures, each measure was decomposed into relevant body frame factors and weight. Subjects adolescents girls baudi village of west Medinipur, 1000 girls of 10 years to 18 years, different anthropometric measurements are taken for that study. Girls are divided into 2 categories premenaercheal girls and postmenarcheal girls, this study will show if there are any effect abdominal fat on menarche. Methodology: For this study height, weight, waisthip circumferences are measured, weight is measured by weighing machine, height is measured by stadiometre, other circumferences are measured by still tapes, weight will be taken by bare foot.

Height is taken by measuring length from floor to vertex. Hip is measured largest measurement of hip midpoint between largest rib and iliac crest. Align the bottom edge of the measuring tape with the top of the hip bone. Wrap the tape measure all the way around the waist.

RESULTS

Age wise of conicity is change and it is significant, postmenarcheal girls conicity index are higher "percent body fat has positive correlation with conicity index but conicity mean with every age not increase to much, butbody mass index are negative corelation with conicity index. conicity index is indicator central obesity but mean of this conicity index is low so that study girls not centrally obese.

DISCUSSION

conicity indicator of central obesity, here conicity index mean value is low so there are lack of chances of children cardio vascular disease in future but posmenarcheal gilrs has higher conicity index, but body mass index not related to conicity index so it is clear that if body mass index higher it does not mean central obesity will be high.

			Descriptive Statistics						
			Ν	Minimum	Maximum	Mean	Std. Deviation		
		Age	1009	10	19	14.54	2.892		
		conicityindex	1009	.0103	.1788	.134800	.0151283		
		Valid N (listwise) 1009						
onicityin	dov			Descri	ptives				
omenym	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		ean Minimum	Maximum	
					Lower Bound	Upper B	ound		
10	100	.138350	.0169281	.0016928	.134991	.14170	.1080	.1788	
11	100	.138648	.0139868	.0013987	.135873	.14142	.1041	.1761	
12	100	.137757	.0132110	.0013211	.135136	.1403	.1108	.1637	
13	100	.134054	.0139862	.0013986	.131279	.13682	.0852	.1673	
14	100	.137330	.0157937	.0015794	.134196	.14040	.0951	.1722	
15	100	.133125	.0153483	.0015348	.130080	.1361′	.0955	.1640	
16	100	.131930	.0193322	.0019332	.128094	.13570	.0103	.1673	
17	100	.134721	.0131416	.0013142	.132113	.13732	.1029	.1609	
18	100	.131213	.0140980	.0014098	.128416	.1340	.1039	.1671	
19	103	.130783	.0122201	.0012041	.128395	.1331′	.0982	.1546	
Total	1003	.134779	.0151429	.0004781	.133841	.1357	.0103	.1788	

Conicityindex relation with Menarcheal Status

Age	Meanerealstatus	Mean	Ν	Std. Deviation	
10	1	.137056	50	.0167368	
	2	.139644	50	.0171882	
	Total	.138350	100	.0169281	
11	1	.137497	70	.0144160	
	2	.141333	30	.0127562	
	Total	.138648	100	.0139868	
12	1	.138491	80	.0131258	
	2	.134820	20	.0134795	
	Total	.137757	100	.0132110	
13	1	.134708	88	.0135041	
	2	.129258	12	.0170205	
	Total	.134054	100	.0139862	
14	1	.135628	92	.0148771	
	2	.156900	8	.0132203	
	Total	.137330	100	.0157937	
15	1	.133235	97	.0153355	
	2	.129567	3	.0187788	
	Total	.133125	100	.0153483	
16	1	.131930	100	.0193322	
	Total	.131930	100	.0193322	
17	1	.134730	99	.0132082	
	2	.133800	1		
	Total	.134721	100	.0131416	
18	1	.131388	99	.0140603	
	2	.113900	1		
	Total	.131213	100	.0140980	
19	1	.130655	101	.0123069	
	Total	.130655	101	.0123069	
Total	1	.134187	876	.0149059	
	2	.138890	125	.0162939	
	Total	.134774	1001	.0151576	

Correlations

		BMI	conicityindex
BMI	Pearson Correlation	1	163**
	Sig. (2-tailed)		.000
	N	1018	1009
conicityindex	Pearson Correlation	163**	1
	Sig. (2-tailed)	.000	
	N	1009	1009

**. Correlation is significant at the 0.01 level (2-tailed).

conicityindex pbf_A .029 .360 1009 Conicityindex Pearson Correlation 1 Sig. (2-tailed) 1009 Ν .029 Percent body Pearson Correlation 1 .360 1009 fat Sig. (2-tailed) Ν 1009

Correlations

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