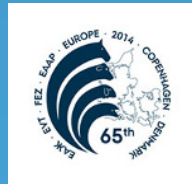


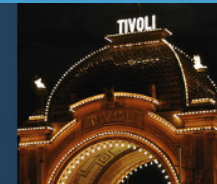


# Relations among birth weight and some body measurements at birth in Saanen kids

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# Animal material

This study was carried out at the commercial dairy goat farm in Bafra province of Samsun, Turkey.














<b>Birth type - Sex</b>	<b>Number of animals</b>
Single - Female	14
Single - Male	10
Multiple - Female	18
Multiple - Male	20
	<b>62</b>



# Statistics

All data showed Johnson SU distribution which is closely related to Normal distribution. So, Pearson correlation was used for relation analysis and linear regression was used for model building with stepwise variable selection approach.

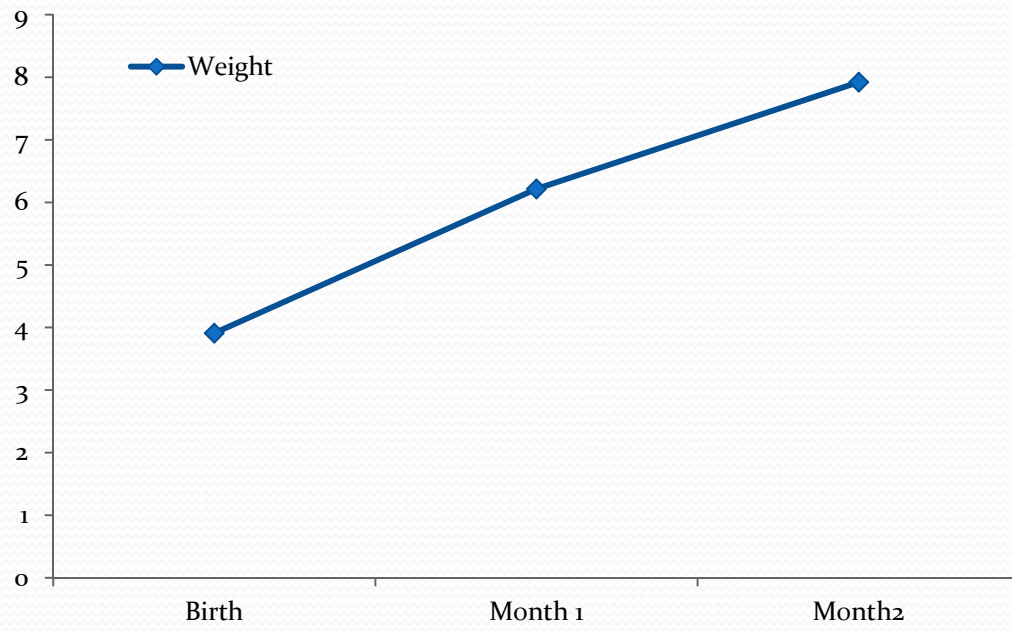
# Results

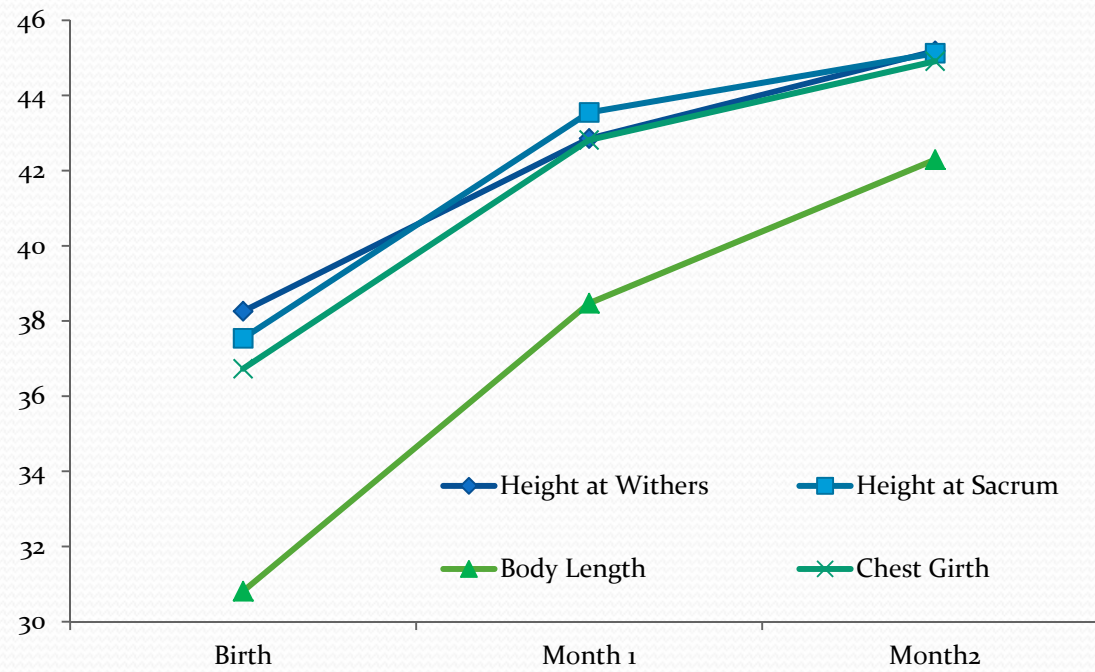
	Body Length	Height at Sacrum	Height at Withers	Chest Girth
Weight	.829**	.475**	.688**	.912**
Body Length		.466**	.764**	.843**
Height at Sacrum			.696**	.492**
Height at Withers				.700**

# Model

$$BW = -6.532 + 0.238(CG) + 0.055(BL)$$









# PATH Analysis

	Correlation with BW	Direct effect	Indirect effect			
			HW	BL	CG	Total
HW	0.720**	0.233**	-	0.123	0.364	0.487
BL	0.714**	0.193**	0.148	-	0.373	0.521
CG	0.856**	0.590**	0.144	0.122	-	0.266



Thank you...