

99

[illegible]

المجموع	Le (a-b-)	Le (a-b+)	Le (a+b+)* & Le (a+b-)	النمط المظهري العينات	
				العدد المشاهد	العينة القياسية
100	18	63	19	العدد المتوقع	العينة القياسية
100	30.71	49.08	20.21	النسبة المئوية%	
100	18	63	19	مربع كاي	
	5.26	3.95	0.07		
281	99	124	58	العدد المشاهد	البيتا ثلاثي
281	86.29	137.92	56.79	العدد المتوقع	
100	35.23	44.13	20.64	النسبة المئوية%	
	1.87	1.40	0.03	مربع كاي	

f ýŵřqñ e ləʔw Cŵ3ŵi Túa- lh šƆwŵ k-úbil-èis kř-fñs f 63% řh kǫxiəɒlɪ
 κkřts lhı Yř-kil-èis kř-fñs řh kǫxiəɒlɪ Ýz qos kř-y f (+Le(a-b ýŵřpos κkřts
 CSll_y= f e qoıs klğ , i kú-ŵřqñ ñci-y èřw ñł qŵřm (-Le(a-b ýŵřqñ pos
 kř-fñs f %18 řh kǫxiəł Ýz qos f %29.75 ŵáúbŵ ýŵjł yó κkřts šƆw ýř
 .k-il-èis

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الجدول (2) توزيع الأنماط المظهرية لمجموعة الدم لويس في مرضى الثلاثسيما الكبرى والعينة القياسية.

ΨζΑΒλθ'	Le (a-b-)	Le (a-b+)	Le (a+b+)* & Le (a+b-)	υΛρΧλθ' Φλνθ' Γ' ûûûûνχγθ'	
100	18	63	19	Ιπ'Πλθ' ΙΙΨθ'	ΗνχΨθ' ΗχΞ'χθθ'
100	25.19	51.55	23.26	ΩδςΟλθ' ΙΙΨθ'	
100	18	63	19	%Ηχς'λθ' Η·Ξνθ'	
	2.05	2.54	0.78	υ*η Ω·λλ	
158	47	70	41	Ιπ'Πλθ' ΙΙΨθ'	χλχΞ'Ε'θθ' σΛ·ηθ'
158	39.81	81.45	36.74	ΩδςΟλθ' ΙΙΨθ'	
100	29.75	44.30	25.95	%Ηχς'λθ' Η·Ξνθ'	
	1.30	1.61	0.49	υ*η Ω·λλ	

*تم دمج النمطين المظهرين (+Le(a+b) و -Le(a+b) لقلتهما في العينة ولأغراض المقارنة الإحصائية.
P < 0.05 قيمة احتمالية

σλϭΧω Πών ΙκΓ' ΥΚ-βΙ-εΐς ΚΓ-φΐς Ι 63% τh ΚχΧΙεh41.79 ΚβύΒh ΨζΠος Ι
ΨζΠρος κκΐς ΨΥ σλϭ_s Ι ΚμύΒΙΨΑος Ι-κ-ύΒΙ'ΨΙΒ ΚλΓ' s' ΚβύΒη Ι Κζς
18% τh ΚχΧΙεοΐh ΨζΠος Ι 44.78% εΧσΙεη ΚβύΒη Ψυΐβ Υθ (-Le(a-b
·Κ-βΙ-εΐς ΚΓ-φΐς Ι

ΨζΠh ΚΓ-y Ι Β·ΨΙ ρΤύΐς ΚγΨκΡ ΧσΙεη Ι úΒη ΚχΧΙεh Τίγ (3) σΨΤΜς Οh-
(P<0.01)Κ-ίγ Κ-Ψτφh ΨΙh'ΑΠω'σΨ3Ψ'Κ-ύΒΙ-εΐς ΚΓ-φΐς ΚμβΙΨΑος Ι-κ-βΙ'ΨΙς
Κ-ίΨΤΜς ηΐΐ Ψύh ° Γ' -ΨΨ14.05 ΚβύΒΜος ΨΙΓ' τλΠh Κκ-π Ψύΐβ Υθ ,
(+Le(a-b ΨζΠρος κκΐς Ι e ΙβΨθ' Τ3Ψ Τεΐ .2 Κ-ΠΙ Κ3ΧC Τίγ11.34

الجدول (3) توزيع الأنماط المظهرية لمجموعة الدم لويس في مرضى الثلاثسيما المتوسطة والعينة القياسية.

Φπιΐιζ'	Le (a-b-)	Le (a-b+)	Le (a+b+)* & Le (a+b-)	σΙοYιζ' Τιλζ' Ε'ουούούλϭζ'	
100	18	63	19	ΗΞ'Ξιζ' ΗΗΩζ'	·λϭζ' ·υΜ'υγζ'
100	28.74	54.50	16.77	Χβπhιζ' ΗΗΩζ'	
100	18	63	19	%·υΠ_ιζ' ·*Μλζ'	
	4.01	1.33	0.30	σ'ε Χ'Ιι	
67	30	28	9	ΗΞ'Ξιζ' ΗΗΩζ'	~υιυΜύϭζ' ·ΤΜπhιζ'
67	19.26	36.51	11.23	Χβπhιζ' ΗΗΩζ'	
100	44.78	41.79	13.43	%·υΠ_ιζ' ·*Μλζ'	
	5.99	1.98	0.44	σ'ε Χ'Ιι	

*تم دمج النمطين المظهرين (+Le(a+b) و -Le(a+b) لقلتهما في العينة ولأغراض المقارنة الإحصائية.
P < 0.01 قيمة احتمالية

Polymorphism of Lewis and Kell Blood Group Systems in Beta-Thalassemia

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Abstract:

Pattern of the Lewis and Kell blood groups were determined in a sample consisted of 381 individuals. A one hundred of this sample represents the control, whilst the remaining individuals (281) were affected by β -thalassemia. The latter, was divided into 158 individuals affected with major thala.; 67 individuals affected with intermediate thala. and 56 individuals affected with minor thala. (carriers). The various comparisons between the studied blood sample revealed the existence of significant differences between the Lewis blood group for β -thala.; also between each of its three types(major, intermediate and minor) as compared with the control sample. This difference was attributed to decrease in resistant phenotype Le(a-b+) and relative increase in Le (a-b-) phenotype. The Kell blood group did not differ significantly in the types of this disease. It appears, the importance of Lewis blood group as another source for detecting the risk of inheritance for β -thala. and other common genetic diseases, because its phenotypes reflect the variation between various samples. It can be used in concordance with other laboratory tests in genetic counseling. It was recommended to do more studies about the other secondary blood groups in order to know the frequency of its patterns between the normal and disease samples.

KEY WORDS:

Thalassemia, Lewis, Kell blood systems, Polymorphism.