Supplementary material for the article by M. Glatz et al "An Unusual Missense Mutation in the GJB3 Gene Resulting in Severe Erythrokeratodermia Variabilis"

Table SI. Previously described mutations in the GJB3 and GJB4 gene, and associated phenotype of erythrokeratodermia variabilis

Mutation		Skin phenotype		_		Seasonal variation of		
DNA	Protein	Non-PPK	PPK	Red patches	Onset	Course	phenotype	Reference
Mutations	s in the GJI	B3 gene encoding for connexin31						
403C>G	L135V	Limbs, neck, axillary folds	N/A	Limbs, lower trunk; painful, transient	Birth	N/A	Worse in winter, after mechanical stress	4
34G>C	G12R	Localized	Yes	N/A	N/A	N/A		9
35G>A	G12D	Limbs and trunk; symmetric, rugose	N/A	Chest, neck; figurated, transient	Birth	N/A		9
256T>A	C86S	Generalized or localized with inter-individual variability	Yes	N/A	N/A	N/A		9
125G>C	R42P	Extensor/flexor sites of limbs, neck, trunk	Yes	Any body site; transient	Early infancy	N/A	Worse in winter	10
409T>C	F137L	Pronounced at lower limbs; generalized, hystrix-like	Yes	Figurate, transitory	N/A	N/A		2
34G>A	G12S	N/A	N/A	N/A	N/A	N/A		11
101T>C	L34P	Extensor sites of limbs, trunk, earlobes	No	Abdomen; variable over weeks	Early infancy	Progressive till puberty, then improvement	Worse in summer	12
829G>A	E100K	Generalized, sparing only small parts of body	Yes	Diffuse, variable	Birth	Increase of hyperkeratoses, decrease of red patches in 1 <sup>st</sup> decade of life		13
625C>T	L209F	Limbs, lower trunk; symmetric, large areas of normal skin	Yes	Sharply demarcated	Birth	Red patches become hyperkeratotic in 1 <sup>st</sup> decade of life	Worse in summer, winter, tiredness, stress hypertrichosis	14
134G>A	G45E	Extensor sites of limbs, face	Yes	Extensor sites of limbs	N/A	N/A	71	7
141G>C	D47E	Limbs	Yes	Variable in size, abnormal shape	Early infancy	N/A		15
Mutations	s in the GJI	B4 gene encoding for connexin30	3	_				
411C>A	F137L	Generalized, fixed	No	Erythema gyratum-like	Birth	Red patches become hyperkeratotic	Worse in summer	1
35G>A	G12D	Limbs, trunk; generalized, symmetric	Yes	Short lasting	N/A	N/A		3
253A>C	T85P	Only over larger joints	No	Generalized, change rapidly	Infancy	Red patches resolve in adolescence	Worse in winter, variable phenotype	3
566T>A	F189Y	Severe, ridging in large folds; hypertrichosis lanuginosa	No	None	N/A	N/A	r	3
64G>A	R22H	Limbs; symmetric, faint underlying erythema	No	Transient	Infancy	Regression in adolescence		3
568A>T	M190L	Flexures sites of limbs; fixed	Yes	Arms, lower trunk, face; transient	Early infancy			14

PPK: palmoplantar keratoses; N/A: not available.