Clinical Immunology (2015) xx, xxx-xxx



available at www.sciencedirect.com

Clinical Immunology

www.elsevier.com/locate/yclim



34 35

Characterization of patients with angioedema without wheals: The importance of *F12* gene screening

- Davide Firinu^{a,*,1}, Valeria Bafunno^{b,1}, Gennaro Vecchione^c,
 Maria Pina Barca^a, Paolo Emilio Manconi^a, Rosa Santacroce^b,
 Maurizio Margaglione^b, Stefano R. del Giacco^a
 - ^a Department of Medical Sciences "M. Aresu", University of Cagliari, Italy
 - ^b Medical Genetics, Department of Clinical and Experimental Medicine, University of Foggia, Foggia, Italy
- ^c Atherosclerosis and Thrombosis Unit, I.R.C.C.S. "Casa Sollievo della Sofferenza", S. Giovanni Rotondo, Foggia, Italy

Received 12 November 2014; accepted with revision 20 February 2015

11 12

10

12 24 25

⊉∮ 17

18 19 20

21

Factor XII; F12; Normal C1-INH; U-HAE; C1 inhibitor; Bradykinin

KEYWORDS

Abstract Sporadic and familiar forms of non-histaminergic angioedema and normal C1 inhibitor encompass a group of disorders possibly caused by bradikinin. We aimed to study the subgroups of hereditary angioedema with FXII mutation (FXII-HAE), unknown genetic defect (U-HAE) and idiopathic non-histaminergic acquired angioedema (InH-AAE). We screened the F12 25 locus in our cohort and delineated the clinical, laboratory and genetic features. Four families 26 carried the p.Thr309Lys mutation in F12 gene. Haplotyping confirmed the hypothesis of a 27 common founder. Six families were affected by U-HAE and 13 patients by sporadic InH-AAE. C4 28 levels were significantly lower in FXII-HAE than in InH-AAE. In the FXII-HAE group, none had 29 attacks exclusively in high estrogenic states; acute attacks were treated with icatibant. 30 Prophylaxis with tranexamic acid reduced the attack frequency in most patients. Our study 31 provides new data on the diagnosis, clinical features and treatment of non-histaminergic 32 angioedema, underlying the role of the screening for F12 mutations.

37 38

Abbreviations: C1-INH, C1 inhibitor; HAE, hereditary angioedema; FXII-HAE, hereditary angioedema with factor XII mutation; U-HAE, hereditary angioedema with unknown genetic mutation; InH-AAE, idiopathic non-histaminergic acquired angioedema; SERPING1, serpin peptidase inhibitor, clade G, member 1.

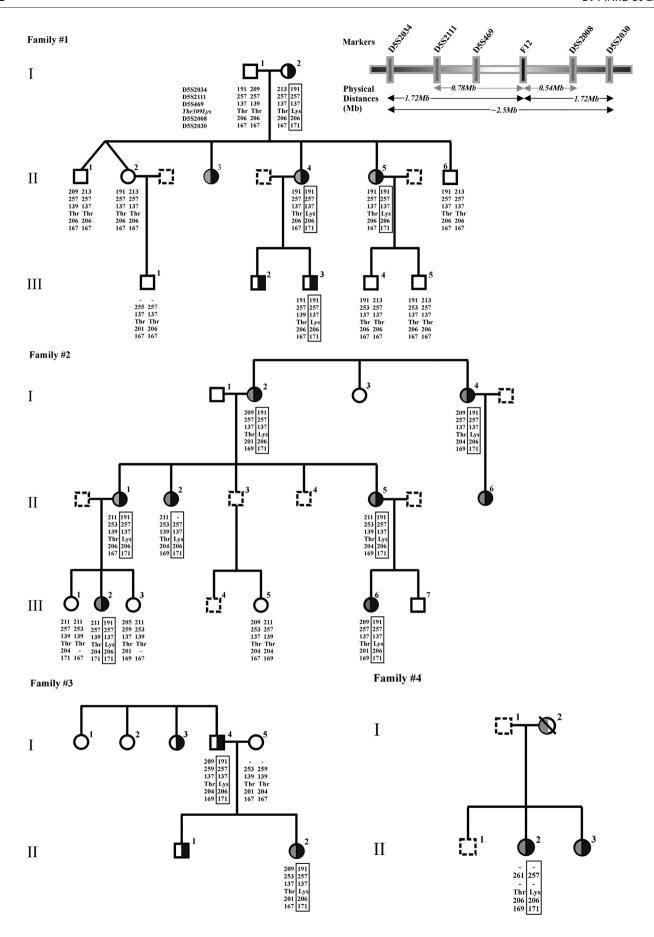
http://dx.doi.org/10.1016/j.clim.2015.02.013

1521-6616/© 2015 Published by Elsevier Inc.

^{*} Corresponding author at: Department of Medical Sciences "M. Aresu", Unit of Internal Medicine, Allergy and Clinical Immunology, University of Cagliari, Azienda Ospedaliero Universitaria, SS 554-Bivio Sestu, I-09042 Monserrato (CA), Italy. Fax: +39 070 51096227. E-mail address: davide.firinu@unica.it (D. Firinu).

¹ Both authors contributed equally to this work and should be considered as first authors.

D. Firinu et al.



Download English Version:

https://daneshyari.com/en/article/6087520

Download Persian Version:

https://daneshyari.com/article/6087520

<u>Daneshyari.com</u>