

Heterogeneity of Clinical Syndromes Related to Loss of Function Mutations in *KCNJ2*

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X S W K H P L Q R U L W \ R I G L V H D V I H I & D W M U Q J Q P X
R . L U L Q D G G L W L R Q W R 3,3 E L Q G L Q J
H Q G R S O D V P L F U H W L F X O X P H [S R U W V H T X
P H F K D Q L V P I R U . L U O R V V G O D R N & N H Q

Abstract

Various inherited arrhythmic syndromes, such as Andersen-Tawar syndrome, Brugada syndrome, and Catecholaminergic ventricular arrhythmias and craniofacial dysmorphic features (Cardiac presentations on ECG; reveal prolongation of the QTc interval, necessary for Kir2.1 opening) and Arrhythmias has been shown to be a result of mutations in the KCNQ1 gene.

KCNA1 mutations that cause bradycardia include D v H B W E L Q G L Q J R U D Q D O O R V W H U L F

F R Q I R U P D W L R Q D O F K D Q J H O H D G L Q J W R G H F U H D V H G . L U F X U U H Q W > @ 2 W K H U
\$ 7 6 F D X . V & L / Q J P X W D W L R Q V L Q F O X G H G L V W X U E D Q F H V L Q W K H S R U H
V H O H F O / W D H Q U G \ P L V I R O G H G R U V H T X H V W H U H G S U R W H L Q V E X W W K H V H P D N H

E\ H[HUFLVH RU VWUHV V \$GGWL RQDO \ LQ WHUPV RI IXQFWLRQDO
FKDUDFWHUL]DWLRQ PRVW .LU PXWDWL RQV DVVRFLDWHG ZLWK \$76 H[KLELW
GRPLQDQW QHJDWL YH .LU FXUUhQW ZKHQ FR H[SUHVVHG ZLWK :7 .LU
ZKLOH WKH .LU PXWDWL RQV DVVRFLDWHG ZLWK &397 GLVSOD\HG PDUNHGO\
GHFUHDVHG RXWZDU\QV. HDG UHFQHWW\H\QVW VR IQFOXODWL RQ