



The *CPT1A* Arctic variant: perspectives of community members and providers in two Alaska tribal health settings

Julie A. Beans¹ · Susan Brown Trinidad² · Aliassa L. Shane¹ · Kyle A. Wark¹ · Jaedon P. Avey¹ · Charlene Apok³ · Tiffany Guinn¹ · Samantha Kleindienst Robler⁴ · Matthew Hirschfeld⁵ · David M. Koeller⁶ · Denise A. Dillard¹

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Abstract

The Arctic variant of the *CPT1A* gene is a common genetic variant in Arctic populations. This variant is associated with a metabolic disorder called carnitine palmitoyltransferase I deficiency (CPT1A deficiency). The Arctic variant is also associated with a higher risk of cardiovascular disease. This study explored the perspectives of community members and providers in two Alaska tribal health settings regarding the Arctic variant of the *CPT1A* gene. The study was conducted in two Alaska tribal health settings: the Chukchi and Gwich'in communities. The study included interviews with community members and providers. The findings of the study are as follows: (1) Community members and providers in both settings were aware of the Arctic variant of the *CPT1A* gene. (2) Community members and providers in both settings had varying levels of understanding of the Arctic variant of the *CPT1A* gene. (3) Community members and providers in both settings had varying levels of concern about the Arctic variant of the *CPT1A* gene. (4) Community members and providers in both settings had varying levels of interest in learning more about the Arctic variant of the *CPT1A* gene. (5) Community members and providers in both settings had varying levels of interest in participating in research about the Arctic variant of the *CPT1A* gene.

Keywords

Arctic variant, *CPT1A*, Alaska, tribal health settings, community members, providers

Introduction

The Arctic variant of the *CPT1A* gene is a common genetic variant in Arctic populations. This variant is associated with a metabolic disorder called carnitine palmitoyltransferase I deficiency (CPT1A deficiency). The Arctic variant is also associated with a higher risk of cardiovascular disease. This study explored the perspectives of community members and providers in two Alaska tribal health settings regarding the Arctic variant of the *CPT1A* gene. The study was conducted in two Alaska tribal health settings: the Chukchi and Gwich'in communities. The study included interviews with community members and providers. The findings of the study are as follows: (1) Community members and providers in both settings were aware of the Arctic variant of the *CPT1A* gene. (2) Community members and providers in both settings had varying levels of understanding of the Arctic variant of the *CPT1A* gene. (3) Community members and providers in both settings had varying levels of concern about the Arctic variant of the *CPT1A* gene. (4) Community members and providers in both settings had varying levels of interest in learning more about the Arctic variant of the *CPT1A* gene. (5) Community members and providers in both settings had varying levels of interest in participating in research about the Arctic variant of the *CPT1A* gene.

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Recruitment

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Results

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Data collection

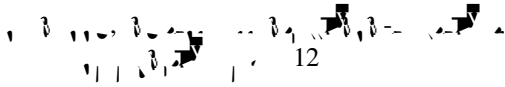
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Data analysis

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Ethics statement

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Knowledge regarding care of children

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Knowledge regarding care of children with the Arctic variant

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Care coordination and referrals

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Concern for stigma and cultural responsiveness

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Discussion

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Limitations

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Public health implications

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