

# Oneida Nation

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## BC Resolution # 06-25-25-A

### Comprehensive Carotid Ultrasound Phenotype: A Tool for Assessing Premature Vascular Aging

- WHEREAS,** the Oneida Nation is a federally recognized Indian government and a treaty tribe recognized by the laws of the United States of America; and
- WHEREAS,** the Oneida General Tribal Council is the governing body of the Oneida Nation; and
- WHEREAS,** the Oneida Business Committee has been delegated the authority of Article IV, Section 1, of the Oneida Tribal Constitution by the Oneida General Tribal Council; and
- WHEREAS,** the proposed research proposal is to create a collaborative effort by the University of Wisconsin Madison Department of Medicine, Cardiovascular Medicine, Section Informatics and Department of Neurology and the Oneida Comprehensive Health Division; and
- WHEREAS,** the proposed research project will be for a one year project through a UW-Madison Department of Medicine (DOM) grant with the possibility of renewal thereafter; and
- WHEREAS,** the project aims to develop a comprehensive carotid ultrasound phenotype (CCUP) score for the following age group of (55 years of age and older using hemodynamics, plaque (area and texture) features. The hypothesis is that individuals with less stiff (more compliant carotid arteries), higher contrast, lower homogeneity and favorable hemodynamics (based on age) and eat healthier (as ascertained from health history interviews) will have fewer cardiovascular disease (CVD) risk factors and better cognitive scores; and
- WHEREAS,** the project plans to determine how health wellness coaching modifies carotid ultrasound phenotypes. The hypothesis is that health wellness coaching can modify carotid ultrasound phenotypes, with more coaching interaction, resulting in the emergence of a more favorable ultrasound arterial phenotype; and
- WHEREAS,** the proposal will be to use the developed comprehensive carotid ultrasound phenotype score to collect carotid ultrasound phenotype data and health measures in 25 individuals (12 male, 13 female) at baseline and at six month follow up. The proposal will utilize a novel carotid-femoral duplex Doppler method to measure pulse-wave velocity (another measure to characterize arterial stiffness) and will add this to the carotid phenotype scoring algorithm. At baseline and six months, all participants will undergo a health assessment by a board-certified neurological surgeon, complete a comprehensive carotid ultrasound for scoring carotid phenotype and meet with a health wellness coach. The health wellness coach will set health goals with all participants and meet with them over the six months. A coaching participation score will be calculated based on the number of coaching interactions. A comparison of how the coaching interaction score is associated with the changes in comprehensive carotid ultrasound phenotype score; and

**NOW THEREFORE BE IT RESOLVED**, the completion of these two aims is the first step in developing a novel algorithm that can be used to assess arterial health associated with normal and premature aging of the blood vessels;

**BE IT FURTHER RESOLVED**, that data collected will be de-identified to protect confidentiality and minimize any risk associated with the completion of this study and/or any future phases of this project will require additional approvals in accordance with Resolution BC-05-08-19A;

**BE IT FURTHER RESOLVED**, that any data collected will remain the property of the Oneida Nation and any publication of results will require prior approval of the Oneida Nation Business Committee;

**BE IT FURTHER RESOLVED**, that information or publications from this research and/or any phase of this research be presented to the Oneida Business Committee prior to distribution to other forums for approval to include presentation at community meetings, local conferences, national conferences or in scientific journals;

**BE IT FINALLY RESOLVED**, that the Oneida Nation is the protector and owner of the information collected as part of this study. The final disposition of the information collected will be determined by the Oneida Nation, including its use, storage and/or destruction;

#### CERTIFICATION

I, the undersigned, as Secretary of the Oneida Business Committee, hereby certify that the Oneida Business Committee is composed of 9 members of whom 5 members constitute a quorum; 9 members were present at a meeting duly called, noticed and held on the 25<sup>th</sup> day of June, 2025; that the forgoing resolution was duly adopted at such meeting by a vote of 8 members for, 0 members against, and 0 members not voting\*; and that said resolution has not been rescinded or amended in any way.

  
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Lisa Liggins, Secretary  
Oneida Business Committee

\*According to the By-Laws, Article I, Section 1, the Chair votes "only in the case of a tie."