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| **Diabetic Peripheral Neuropathy** |
| **Protocol Id** | 140401 |
| **Version #** | 1 |
| **Description of Protocol** | The Michigan Neuropathy Screening Instrument (MNSI) consists of 15 yes or no questions that assess feelings in the legs and feet (distal symmetric polyneuropathy). The Michigan Neuropathy Screening Instrument also includes a clinical examination which is not included here. |
| **Specific Instructions** | None |
| **Protocol Text** | Please take a few minutes to answer the questions below about the feeling in your legs and feet. Check yes or no based on how you usually feel.1. Are your legs and/or feet numb?         [ ] Yes         [ ] No2. Do you ever have any burning pain in your legs and/or feet?         [ ] Yes         [ ] No3. Are your feet too sensitive to touch?         [ ] Yes         [ ] No4. Do you get muscle cramps in your legs and/or feet?         [ ] Yes         [ ] No5. Do you ever have any prickling feelings in your legs or feet?         [ ] Yes         [ ] No6. Does it hurt when the bed covers touch your skin?         [ ] Yes         [ ] No7. When you get into the tub or shower, are you able to tell the hot water from the cold water?         [ ] Yes         [ ] No8. Have you ever had an open sore on your foot?         [ ] Yes         [ ] No9. Has your doctor ever told you that you have diabetic neuropathy?         [ ] Yes         [ ] No10. Do you feel weak all over most of the time?         [ ] Yes         [ ] No11. Are your symptoms worse at night?         [ ] Yes         [ ] No12. Do your legs hurt when you walk?         [ ] Yes         [ ] No13. Are you able to sense your feet when you walk?         [ ] Yes         [ ] No14. Is the skin on your feet so dry that it cracks open?         [ ] Yes         [ ] No15. Have you ever had an amputation?         [ ] Yes         [ ] NoTotal:\_\_\_\_\_\_/15ptsScoring Instructions:Score each positive response as a "1". The greater the score, the greater risk for neuropathy. |
| **Selection Rationale** | The Michigan Neuropathy Screening Instrument (MNSI) was vetted against several other neuropathy protocols and chosen because it is a relatively well validated, widely used instrument. |
| **Source** | Feldman, EL, Stevens, MJ, Thomas, PK, Brown, MB, Canal, N & Greene, DA. (1994). A Practical two-step quantitative clinical and electrophysiological assessment for the diagnosis and staging of diabetic neuropathy. *Diabetes Care*, 17(11), 1281-1289. |
| **Language** | English |
| **Participant** | Participant aged 18 years or older. |
| **Personnel and Training Required** | None |
| **Equipment Needs** | None |
| **Standards** |

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| **Standard** | **Name** | **ID** | **Source** |
| Common Data Elements (CDE) | Person Diabetic Neuropathy Assessment Description Text | 3070668 | [CDE Browser](https://cdebrowser.nci.nih.gov/CDEBrowser/search?elementDetails=9&FirstTimer=0&PageId=ElementDetailsGroup&publicId=3070668&version=1.0) |
| Logical Observation Identifiers Names and Codes (LOINC) | Diabetic peripheral neuropathy proto | 62795-0 | [LOINC](http://s.details.loinc.org/LOINC/62795-0.html?sections=Web) |

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| **General References** | American Diabetes Association. (2010). Diagnosis and classification of diabetes mellitus. *Diabetes Care*, 33 (Supplement 1), S11 - S61. |
| **Protocol Type** | Self-administered questionnaire |
| **Derived Variables** | None |
| **Requirements** |

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| **Requirement Category** | **Required** |
| Average time of greater than 15 minutes in an unaffected individualAverage time of greater than 15 minutes in an unaffected individual | No |
| Major equipmentThis measure requires a specialized measurement device that may not be readily available in every setting where genome wide association studies are being conducted. Examples of specialized equipment are DEXA, Echocardiography, and Spirometry | No |
| Specialized requirements for biospecimen collectionThis protocol requires that blood, urine, etc. be collected from the study participants. | No |
| Specialized trainingThis measure requires staff training in the protocol methodology and/or in the conduct of the data analysis. | No |

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