

## Association of Ankle Brachial Index with Diabetic Score Neuropathy Examination in Type 2 Diabetes Melitus Patients

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**Abstract :** Diabetes Mellitus (DM) is a chronic disease that could cause complications. The complication can be Peripheral Arterial Disease (PAD) or Diabetic Neuropathy (DN). Peripheral Arterial Disease is checked by Ankle Brachial Index (ABI), DN is checked by Diabetic Neuropathy Examination (DNE) score. To determine the association of ABI and DNE score in DM type 2. This study uses a cross-sectional design. The subjects were DM patients at the neurology and endocrinology polyclinic at Haji Adam Malik Hospital Medan and its network hospital and this study subjects were examined for ABI and DNE scores. The data were analysed using the Fisher Exact statistics test. Demographics characteristic showed most of subject are female (51,6%), age range  $\geq 60$  (45,2% ; average  $57,6 \pm 9,8$  years ), and history of DM 5-10 years (45,2%). The most patient ABI characteristics were mild PAD (42%) and moderate PAD (29%). The most patient DNE Score characteristics were  $\geq 3$  (51,6%). There's a significant relationship between ABI and DNE score in DM type 2 ( $p = 0.016$ ). Conclusion: There is a significant association between ABI and DNE scores in DM type 2 patients

**Keywords :** diabetic neuropathy, diabetes mellitus, ankle-brachial index, diabetic neuropathy examination

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