

# **Assessment of Selective Cognitive Function in Hemodialysis Patients**

## **Thesis**

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in Internal Medicine

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ

سُبْحَانَكَ لَا إِلَهَ إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ  
الْعَلِيمُ الْعَظِيمُ

صدق الله العظيم

سورة البقرة الآية: ٣٢



وَأَنْزَلَ اللَّهُ عَلَيْكَ  
الْكِتَابَ وَالْحِكْمَةَ  
وَعَلَّمَكَ مَا لَمْ تَكُن تَعْلَمُ  
وَكَانَ فَضْلُ اللَّهِ عَلَيْكَ  
عَظِيمًا

صدق الله العظيم

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## **List of Abbreviations**

| <b>Abbr.</b>       | <b>Full-term</b>   |
|--------------------|--|
| <b>3 MS</b>        | : Modified Mini-Mental State                               |
| <b>Ab</b>          | : Antibody   |
| <b>AD</b>          | : Alzheimer-type dementia                                  |
| <b>ALT</b>         | : Alanine transaminase                                     |
| <b>AMTS</b>        | : Abbreviated Mental Test Score                            |
| <b>AST</b>         | : Aspartate transaminase                                   |
| <b>A-V fistula</b> | : Arterio-venous fistula                                   |
| <b>BMI</b>         | : Body mass index  |
| <b>BP</b>          | : Blood Pressure   |
| <b>BUN</b>         | : Blood Urea Nitrogen                                      |
| <b>BVRT</b>        | : Benton Visual Retention Test                             |
| <b>CAD</b>         | : Coronary Artery Disease                                  |
| <b>CATCH</b>       | : Critically attained threshold of cerebral hypo-perfusion |
| <b>CBT</b>         | : Cognitive Behavioral Therapy                             |
| <b>CI</b>          | : Cognitive Impairment                                     |
| <b>CIMT</b>        | : Carotid Intimal-Medium thickness                         |
| <b>CKD</b>         | : Chronic kidney disease                                   |
| <b>CNS</b>         | : Central Nervous System                                   |
| <b>CRP</b>         | : C-Reactive Protein                                       |
| <b>CST</b>         | : Cognitive stimulation therapy                            |

## **List of Abbreviations (Cont.)**

| <b>Abbr.</b>            | <b>Full-term</b>   |
|-------------------------|--|
| <b>CVD</b>              | : Cardiovascular disease   |
| <b>DM</b>               | : Diabetes mellitus  |
| <b>DSM-IV-TR</b>        | : Diagnostic and Statistical Manual of Mental Disorders-IV-Text Revision |
| <b>eGFR</b>             | : Estimated glomerular filtration rate                                   |
| <b>ESRD</b>             | : End stage renal disease  |
| <b>FDA</b>              | : Food and drug administration   |
| <b>Hb</b>               | : Hemoglobin   |
| <b>HCV</b>              | : Hepatitis c virus  |
| <b>HD</b>               | : Hemodialysis   |
| <b>HDL</b>              | : High density lipoprotein   |
| <b>HTN</b>              | : Hypertension   |
| <b>IMT</b>              | : Intimal-medium thickness   |
| <b>in</b>               | : inch   |
| <b>INR</b>              | : international normalized ratio   |
| <b>iPTH</b>             | : Intact parathyroid hormone   |
| <b>IQR</b>              | : Interquartile range  |
| <b>K</b>                | : Potassium  |
| <b>kg/m<sup>2</sup></b> | : Kilogram/meter square  |
| <b>LDL</b>              | : Low density lipoprotein  |

## **List of Abbreviations (Cont.)**

| <b>Abbr.</b>          | <b>Full-term</b>  |
|-----------------------|---|
| <b>LM</b>             | : Logical Memory  |
| <b>LVD</b>            | : Left ventricular dysfunction                              |
| <b>MAP</b>            | : Mean arterial pressure                                    |
| <b>MDD</b>            | : Major depressive disorder                                 |
| <b>Mg</b>             | : Magnesium   |
| <b>mm</b>             | : Millimeter  |
| <b>mmol</b>           | : Milli mole  |
| <b>MMSE</b>           | : Mini mental state examination                             |
| <b>MOCA</b>           | : Montreal Cognitive Assessment                             |
| <b>MRI</b>            | : Magnetic resonance imaging                                |
| <b>Na</b>             | : Sodium  |
| <b>NEAR</b>           | : Neuropsychological Educational Approach to Rehabilitation |
| <b>pg</b>             | : Picogram/milliliter                                       |
| <b>Po<sub>4</sub></b> | : Phosphate   |
| <b>RO</b>             | : reverse osmosis   |
| <b>SD</b>             | : Standard Deviation  |
| <b>SMMSE</b>          | : Standardized Mini-Mental State Examination                |
| <b>SPSS</b>           | : Statistical package for social science                    |
| <b>TMT-A</b>          | : Trial of making test part A                               |
| <b>TMT-B</b>          | : Trial of making test part B                               |



## **List of Abbreviations (Cont.)**

| <b>Abbr.</b> | <b>Full-term</b>                    |
|--------------|-------------------------------------|
| <b>UK</b>    | : United Kingdom                    |
| <b>URR</b>   | : Urea reduction ratio              |
| <b>VaD</b>   | : Vascular dementia                 |
| <b>VCI</b>   | : Verbal Comprehension Index        |
| <b>VPA</b>   | : Visual Paired Associates          |
| <b>VP</b>    | : Visual Reproduction               |
| <b>WAIS</b>  | : Wechsler Adult Intelligence Scale |
| <b>WMS</b>   | : Wechsler Memory Scale             |

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