**Supplementary Table 2.** Cross-Sectional Results for Vascular Parameters (Macula and Optic Disc related parameters)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SCP-FAZ** | **DCP-FAZ** | **SVC-FAZ** | **DVC-FAZ** | **IVC-FAZ** | **SVP-FAZ** | **SCP-FD** | **DCP-FD** | **SCP-VD** | **DCP-VD** | **IVC-VD** | **SVC-VD** | **DVC-VD** | **6mm SVC VD** | **6mm DVC VD** | **6mm CC- VD** | **CC-VD** | **CC-VLD** | **SCP-VLD** | **DCP-VLD** | **ICP-VLD** | **pRPC-VD** | **pRPC-VLD** | **RPC-VD W-Img** | **pSVC-VD** | **pSVC-VLD** | **OutRet-FR** |
| **AD** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Supported by CSF and/or PET** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [1] $BIOM\_{+ve}$: 9 vs. $BIOM\_{-ve}$: 11 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\uparrow $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [2] AD: $48^{\*A+}$, HCs: $38^{\*A-}$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [3] *APOE* ε4+:10 vs. *APOE* ε4-: 18 | $$-^{NS}$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| **AD vs. HCs:** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [4] Mild AD: 37, HCs: 29 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-$$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ |
| [5] AD: 7, HCs: 8 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [6] AD: 24 vs. HCs: 29 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-^{NS}$$ | $$\downright $$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [7] Mild AD: 17 vs. HCs: 15 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [8] ATD: 26, HCs: 26 | $$-$$ | $$-$$ | $$\uparrow $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ |
| **MCI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MCI vs. HCs:** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [9] amnestic MCI: 59 vs. non-amnestic MCI: 17 vs. HCs: 56 | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [9] non-amnestic MCI: 17 vs. HCs: 56 | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [9] amnestic MCI: 59 vs. HCs: 56 | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [9] amnestic MCI: 59 vs. non-amnestic MCI: 17 | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [6] MCI: 37 vs. HCs: 29 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [10] MCI due to AD: 24 vs. HCs: 13 | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$\downright $$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$\downright $$ | $$\downright $$ | $$\downright $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [3] MCI: 24 vs. HCs: 31 | $$-^{NS}$$ | $$\uparrow $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\downright $$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [11] CI: 268, HCs: 1287 | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [12] CKD\_Low: 13 vs. CKD\_High: 99 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [13] aMCI: 54 vs. HCs: 54 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ |
| **Multi-Class comparison** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [14] MCI: 21 vs. AD: 18 vs. HCs: 21 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$\uparrow $$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |
| [15] aMCI/eAD: 16 vs. HCs: 16 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-$$ |
| [16] AD: 12, MCI: 12, HCs: 32 | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-^{NS}$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ | $$-$$ |

Noteworthy, all tables illustrate significant changes by $\uparrow $ or $\downright $ arrows, insignificant changes by $-^{NS}$, and $-$ for any missing parameters.

See Table 2 for definitions of abbreviations.

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