References:


Pavel V. Petrik, MD; Hugh A. Gelabert, MD; Wesley S. Moore, MD; William Quinones-Baldrich, MD Michael M. Law, MD. Cigarette Smoking Accelerates Carotid Artery Intimal Hyperplasia in a Dose-Dependent Manner. (1995). Presented at the 20th International Joint Conference on Stroke and Cerebral Circulation, Charleston, SC, February 9-11.


Appendices

Appendices (A):

A.1 Rt CCA-Male-22 years-Former smoker (2-3 CPD) with IIMT-B-mode.

A.1 Rt CCA-Male-22 years- Former smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.1 Lt CCA-Male-22 years-Former smoker (2-3 CPD) with IIMT-B-mode.

A.1 Lt CCA-Male-22 years- Former smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.2 Rt CCA-Male-21 years-Current smoker (2 CPD) with IIMT-B-mode.

A.2 Rt CCA-Male-21 years-Current smoker (2 CPD) with IPSV and DEDV-Doppler Spectrum.
A.2 Lt CCA-Male-21 years-Current smoker (2 CPD) with IIMT-B-mode.

A.2 Lt CCA-Male-21 years-Current smoker (2 CPD) with IPSV and DEDV-Doppler Spectrum.
A.3 Rt CCA-Male-23 years-Current smoker (10 and more CPD) with IIMT-B-mode.

A.3 Rt CCA-Male-23 years- Current smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.3 Lt CCA-Male-23 years-Current smoker (10 and more CPD) with IIMT-B-mode.

A.3 Lt CCA-Male-23 years- Current smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.4 Rt CCA-Male-24 years-Former smoker (14 CPD) with IIMT-B-mode.

A.4 Rt CCA-Male-24 years- Former smoker (14 CPD) with IPSV and DEDV-Doppler Spectrum.
A.4 Lt CCA-Male-24 years-Former smoker (14 CPD) with IIMT-B-mode.

A.4 Lt CCA-Male-24 years- Former smoker (14 CPD) with IPSV and DEDV-Doppler Spectrum.
A.5 Rt CCA-Male-24 years-Former smoker (6 CPD) with IIMT-B-mode.

A.5 Rt CCA-Male-24 years-Former smoker (6 CPD) with IPSV and DEDV-Doppler Spectrum.
A.5 Lt CCA-Male-24 years-Former smoker (6 CPD) with IIMT-B-mode.

A.5 Lt CCA-Male-24 years-Former smoker (6 CPD) with IPSV and DEDV-Doppler Spectrum.
A.6 Rt CCA-Male-28 years- Current smoker (15 CPD) with IIMT-B-mode.

A.6 Rt CCA-Male-28 years- Current smoker (15 CPD) with IPSV and DEDV-Doppler Spectrum.
A.6 Lt CCA-Male-28 years-Current smoker (15 CPD) with IIMT-B-mode.

A.6 Lt CCA-Male-28 years- Current smoker (15 CPD) with IPSV and DEDV-Doppler Spectrum.
A.7 Rt CCA-Male-19 years-Current smoker (10 CPD) with IIMT-B-mode.

A.7 Rt CCA-Male-19 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.7 Lt CCA-Male-19 years-Current smoker (10 CPD) with IIMT-B-mode.

A.7 Lt CCA-Male-19 years-Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.8 Rt CCA-Male-21 years-Current smoker (30 and more CPD) with IIMT-B-mode.

A.8 Rt CCA-Male-21 years- Current smoker (30 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.8 Lt CCA-Male-21 years-Current smoker (30 and more CPD) with IIMT-B-mode.

A.8 Lt CCA-Male-21 years- Current smoker (30 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.9 Rt CCA-Male-35 years-Current smoker (10-15 CPD) with IIMT-B-mode.

A.9 Rt CCA-Male-35 years- Current smoker (10-15 CPD) with IPSV and DEDV-Doppler Spectrum.
A.9 Lt CCA-Male-35 years-Current smoker (10-15 CPD) with IIMT-B-mode.

A.9 Lt CCA-Male-35 years- Current smoker (10-15 CPD) with IPSV and DEDV-Doppler Spectrum.
A.10 Rt CCA-Male-23 years-Current smoker (4 CPD) with IIMT-B-mode.

A.10 Rt CCA-Male-23 years- Current smoker (4 CPD) with IPSV and DEDV-Doppler Spectrum.
A.10 Lt CCA-Male-23 years-Current smoker (4 CPD) with IIMT-B-mode.

A.10 Lt CCA-Male-23 years- Current smoker (4 CPD) with IPSV and DEDV-Doppler Spectrum.
A.11 Rt CCA-Male-20 years-Current smoker (10 CPD) with IIMT-B-mode.

A.11 Rt CCA-Male-20 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.11 Lt CCA-Male-20 years-Current smoker (10 CPD) with IIMT-B-mode.

A.11 Lt CCA-Male-20 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.12 Rt CCA-Male-20 years-Current smoker (2-3 CPD) with IIMT-B-mode.

A.12 Rt CCA-Male-20 years-Current smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.12 Lt CCA-Male-20 years-Current smoker (2-3 CPD) with IIMT-B-mode.

A.12 Lt CCA-Male-20 years- Current smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.13 Rt CCA-Male-22 years- Former smoker (7-8 CPD) with IIMT-B-mode.

A.13 Rt CCA-Male-22 years- Former smoker (7-8 CPD) with IPSV and DEDV-Doppler Spectrum.
A.13 Lt CCA-Male-22 years-Former smoker (7-8 CPD) with IIMT-B-mode.

A.13 Lt CCA-Male-22 years- Former smoker (7-8 CPD) with IPSV and DEDV-Doppler Spectrum.
A.14 Rt CCA-Male-22 years-Current smoker (5 CPD) with IIMT-B-mode.

A.14 Rt CCA-Male-22 years- Current smoker (5 CPD) with IPSV and DEDV-Doppler Spectrum.
A.14 Lt CCA-Male-22 years-Current smoker (5 CPD) with IIMT-B-mode.

A.14 Lt CCA-Male-22 years- Current smoker (5 CPD) with IPSV and DEDV-Doppler Spectrum.
A.15 Rt CCA-Male-29 years-Current smoker (2 CPD) with IIMT-B-mode.

A.15 Rt CCA-Male-29 years- Current smoker (2 CPD) with IPSV and DEDV-Doppler Spectrum.
A.15 Lt CCA-Male-29 years-Current smoker (2 CPD) with IIMT-B-mode.

A.15 Lt CCA-Male-29 years- Current smoker (2 CPD) with IPSV and DEDV-Doppler Spectrum.
A.16 Rt CCA-Male-21 years-Former smoker (2-3 CPD) with IIMT-B-mode.

A.16 Rt CCA-Male-21 years- Former smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.16 Lt CCA-Male-21 years-Former smoker (2-3 CPD) with IIMT-B-mode.

A.16 Lt CCA-Male-21 years- Former smoker (2-3 CPD) with IPSV and DEDV-Doppler Spectrum.
A.17 Rt CCA-Male-23 years-Current smoker (10 CPD) with IIMT-B-mode.

A.17 Rt CCA-Male-23 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.17 Lt CCA-Male-23 years-Current smoker (10 CPD) with IIMT-B-mode.

A.17 Lt CCA-Male-23 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.18 Rt CCA-Male-35 years-Current smoker (1 CPD) with IIMT-B-mode.

A.18 Rt CCA-Male-35 years- Current smoker (1 CPD) with IPSV and DEDV-Doppler Spectrum.
A.18 Lt CCA-Male-35 years-Current smoker (1 CPD) with IIMT-B-mode.

A.18 Lt CCA-Male-35 years- Current smoker (1 CPD) with IPSV and DEDV-Doppler Spectrum.
A.19 Rt CCA-Male-21 years-Current smoker (10 and more CPD) with IIMT-B-mode.

A.19 Rt CCA-Male-21 years- Current smoker (10 AND MORE CPD) with IPSV and DEDV-Doppler Spectrum.
A.19 Lt CCA-Male-21 years- Current smoker (10 AND MORE CPD) with IPSV and DEDV-Doppler Spectrum.
A.20 Rt CCA-Male-23 years-Former smoker (1 CPD) with IIMT-B-mode.

A.20 Rt CCA-Male-23 years- Former smoker (1 CPD) with IPSV and DEDV-Doppler Spectrum.
A.20 Lt CCA-Male-23 years-Former smoker (1 CPD) with IIMT-B-mode.

A.20 Lt CCA-Male-23 years-Former smoker (1 CPD) with IPSV and DEDV-Doppler Spectrum.
A.21 Rt CCA-Male-28 years-Former smoker (10 and more CPD) with IIMT-B-mode.

A.21 Rt CCA-Male-28 years-Former smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.21 Lt CCA-Male-28 years-Former smoker (10 and more CPD) with IIMT-B-mode.

A.21 Lt CCA-Male-28 years- Former smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.22 Rt CCA-Male-24 years-Current smoker (10 CPD) with IIMT-B-mode.

A.22 Rt CCA-Male-24 years-Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.22 Lt CCA-Male-24 years-Current smoker (10 CPD) with IIMT-B-mode.

A.22 Lt CCA-Male-24 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.23 Rt CCA-Male-33 years-Former smoker (10 and more CPD) with IIMT-B-mode.

A.23 Rt CCA-Male-33 years- Former smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.23 Lt CCA-Male-33 years-Former smoker (10 and more CPD) with IIMT-B-mode.

A.23 Lt CCA-Male-33 years- Former smoker (10 and more CPD) with IPSV and DEDV-Doppler Spectrum.
A.24 Rt CCA-Male-19 years-Recent smoker (10 CPD) with IIMT-B-mode.

A.24 Rt CCA-Male-19 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.24 Lt CCA-Male-19 years-Recent smoker (10 CPD) with IIMT-B-mode.

A.24 Lt CCA-Male-19 years- Current smoker (10 CPD) with IPSV and DEDV-Doppler Spectrum.
A.25 Rt CCA-Male-19 years-Former smoker (4 CPD) with IIMT-B-mode.

A.25 Rt CCA-Male-19 years- Former smoker (4 CPD) with IPSV and DEDV-Doppler Spectrum.
A.25 Lt CCA-Male-19 years-Former smoker (4 CPD) with IIMT-B-mode.

A.25 Lt CCA-Male-19 years- Former smoker (4 CPD) with IPSV and DEDV-Doppler Spectrum.
Appendix (B):

\[ RI = \frac{PSV - EDV}{PSV} \]  \hspace{1cm} (2.2)

\[ PI = \frac{PSV - EDV}{mean} \]  \hspace{1cm} (2.3)

From equation (3.2) & (3.3), the parameter PI could be deduced:

\[ \frac{RI}{PI} = \frac{(PSV - EDV)}{(PSV)} \times \frac{(mean)}{(PSV - EDV)} \]

\[ \frac{RI}{PI} = \frac{mean}{PSV} \]

\[ PI = RI \frac{PSV}{mean} \]

\[ \therefore PI \propto PSV \]
Appendix (C):

**T-Test**

### One-Sample Statistics

<table>
<thead>
<tr>
<th>N</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAR00008</td>
<td>192</td>
<td>.0801</td>
<td>.00981</td>
</tr>
</tbody>
</table>

### One-Sample Test 1-4 CPD

<table>
<thead>
<tr>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
<th>Mean Difference</th>
<th>Lower 95% CI</th>
<th>Upper 95% CI</th>
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<tbody>
<tr>
<td>VAR00008</td>
<td>28.384</td>
<td>191</td>
<td>.000</td>
<td>.0187</td>
<td>.0215</td>
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</table>

### T-Test

### One-Sample Statistics

<table>
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<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAR00009</td>
<td>96</td>
<td>.0900</td>
<td>.00995</td>
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### One-Sample Test 5-9 CPD

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<th>Lower 95% CI</th>
<th>Upper 95% CI</th>
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<tr>
<td>VAR00009</td>
<td>29.550</td>
<td>95</td>
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<td>.0320</td>
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### T-Test

### One-Sample Statistics

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</thead>
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<tr>
<td>VAR00010</td>
<td>160</td>
<td>.0997</td>
<td>.01003</td>
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</table>
### One-Sample Test => 10 CPD

<table>
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<th>Sig. (2-tailed)</th>
<th>Mean Difference</th>
<th>95% Confidence Interval of the Difference</th>
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<tr>
<td>VAR00010</td>
<td>50.139</td>
<td>.000</td>
<td>.0397</td>
<td>.0382, .0413</td>
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</table>

### T-Test

#### One-Sample Statistics

<table>
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<th>N</th>
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<tbody>
<tr>
<td>VAR00011</td>
<td>240</td>
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<td>.01004</td>
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</table>

### One-Sample Test 1-4 currentsmokers CPD

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<th>Mean Difference</th>
<th>95% Confidence Interval of the Difference</th>
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<tr>
<td>VAR00011</td>
<td>46.479</td>
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<td>.0288, .0314</td>
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### T-Test

#### One-Sample Statistics

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<tbody>
<tr>
<td>VAR00012</td>
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<td>.01021</td>
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### One-Sample Test 5-9 current smokers CPD

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### T-Test

#### One-Sample Statistics

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<tr>
<td>VAR00013</td>
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### T-Test

#### One-Sample Test for Current Smokers CPD

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<tr>
<td>VAR00008</td>
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<td>.000</td>
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<td>.0389 - .0407</td>
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#### T-Test

#### One-Sample Statistics

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#### One-Sample Test for 1-4 CPD

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<th>Sig. (2-tailed)</th>
<th>Mean Difference</th>
<th>95% Confidence Interval of the Difference</th>
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<td><strong>Test Value = 0.06</strong></td>
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<tr>
<td>VAR00008</td>
<td>28.384</td>
<td>191</td>
<td>.000</td>
<td>.0201</td>
<td>.0187 - .0215</td>
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#### T-Test

#### One-Sample Statistics

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#### One-Sample Test for 5-9 CPD

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#### T-Test

#### One-Sample Statistics

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## One-Sample Test => 10 CPD

<table>
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<th>95% Confidence Interval of the Difference</th>
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<td>.000</td>
<td>.0397</td>
<td>.0382 to .0413</td>
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## T-Test

### One-Sample Statistics

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### One-Sample Test 1-4 currentsmokers CPD

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<tr>
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<td>46.479</td>
<td>239</td>
<td>.000</td>
<td>.0301</td>
<td>.0288 to .0314</td>
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## T-Test

### One-Sample Statistics

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### One-Sample Test 5-9 current smokers CPD

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<td>.000</td>
<td>.0302</td>
<td>.0285 to .0319</td>
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</tbody>
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## T-Test

### One-Sample Statistics

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</table>
One-Sample Test => 10 current smokers CPD

<table>
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<th>Upper</th>
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<td>85.518</td>
<td>479</td>
<td>.000</td>
<td>.0398</td>
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</table>

Test Value = 0.06
Appendices (D):

Sudan University of Science and Technology
College of Graduated Studies
Doctorate of Philosophy in Medical Diagnostic Ultrasound
Data Collection Sheet (Questionnaire)

Evaluation of Common Carotid Arteries in Sudanese Smokers Using Medical Diagnostic Ultrasound (B-mode and Doppler)

Date: .................................... Ultrasound Centre: ....................................

- **Patient Data:**
  - Patient ID: .........................
  - Patient Name: .........................
  - Gender: Male ( ) or Female ( ).
  - Age: .........................
  - Martial Status: Married ( ) or Single ( ).
  - Occupation: .........................
  - Location:
    A. North of Sudan ( ).
    B. South of Sudan ( ).
    C. West of Sudan ( ).
    D. East of Sudan ( ).
    E. Center of Sudan ( ).

- **Smoking Status:**
  - Current smoker: yes ( ) or no ( ).
    - If yes, how many cigarettes smoked per day?
      1-4 cpd ( ) or 5-9 cpd ( ) or ≥ 10 cpd ( )
  - Former smoker: yes ( ) or no ( ).
    - If yes, how many cigarettes smoked per day?
      1-4 cpd ( ) or 5-9 cpd ( ) or ≥ 10 cpd ( )
  - Non smoker: yes ( ) or no ( ).

- **Ultrasound Findings:**

<table>
<thead>
<tr>
<th>RT CCA Value</th>
<th>LT CCA Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMT (cm)</td>
<td>IMT (CM)</td>
</tr>
<tr>
<td>PSV (cm/sec)</td>
<td>PSV (cm/sec)</td>
</tr>
<tr>
<td>EDV (cm/sec)</td>
<td>EDV (cm/sec)</td>
</tr>
<tr>
<td>RI</td>
<td>RI</td>
</tr>
<tr>
<td>PI</td>
<td>PI</td>
</tr>
</tbody>
</table>