**Do statins increase the chances of immune reconstitution beyond HAART?**

**Table 1. Baseline Characteristics**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Statin Use Rate</th>
<th>p-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (per decade)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>African American Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline CD4 (cells/L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline VL (log10 copies/mL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ever smoked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current BMI</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Results**

- **Baseline CD4** was higher in patients on statin use (p < 0.0001).
- **Baseline VL** was lower in patients on statin use (p < 0.0001).
- **Ever smoked** status was higher in patients on statin use (p < 0.0001).
- **Current BMI** was lower in patients on statin use (p < 0.0001).

**Introduction**

- Persistent inflammation and immune activation on long-term suppressive HAART is associated with increased mortality and HIV-associated Non-AIDS conditions as well as incomplete immune reconstitution.
- Many HIV-infected patients never reach these thresholds. (HIV Care Registry) Statin use was shown to lower markers of immune activation in HIV-infected patients.

**Objectives**

- To evaluate whether statin use contributes to immune reconstitution independently of HAART.
- To determine whether statin use affects virologic control.

**Methods**

- We used the US Veteran’s Cohort (1995-2007) Clinical Case Registry to identify patients with ≥7 years of follow-up after initiation of HAART and with ≥30 months of follow-up before and after HAART initiation in the VA system.
- Follow-up (FU) time started at first HAART initiation.
- Accounting for early refills, unused outpatient refills during hospitalizations, current use, and medication switches we computed daily medication use rates, defined:
  - **Cumulative HAART use rate (HUR)** as the % of follow-up (FU) time in which patients were in possession of a complete HAART regimen or any statin.
  - **Cumulative statin use rate** as the % of follow-up (FU) time in which patients were in possession of a complete statin regimen or any statin.

**Conclusions**

- **Statin Use on HAART is Associated With Greater CD4 Gains in HIV-Infected Veterans**
- **Henning Drechsler,1,2 James Cutrell,3,2 Martha Carvour,2 Pablo Tebas,5 Roger Bedimo,1,2
- 1VA North Texas Health Care System, Dallas, TX, 2University of Texas, Southwestern, Dallas, TX, 3University of Pennsylvania, Philadelphia, PA**

**References**

1. Tien PN, AIDS. 2009;33(9): 1162-1169.