FACTS ABOUT SICKLE CELL DISEASE

~100,000 People Are Affected by Sickle Cell Disease in the United States

Top 10 States With the Highest Prevalence of Sickle Cell Disease

<table>
<thead>
<tr>
<th>State</th>
<th>Prevalence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida</td>
<td>8803</td>
</tr>
<tr>
<td>New York</td>
<td>8661</td>
</tr>
<tr>
<td>Texas</td>
<td>7132</td>
</tr>
<tr>
<td>Georgia</td>
<td>5797</td>
</tr>
<tr>
<td>Maryland</td>
<td>4860</td>
</tr>
<tr>
<td>California</td>
<td>4707</td>
</tr>
<tr>
<td>New Jersey</td>
<td>4256</td>
</tr>
<tr>
<td>North Carolina</td>
<td>3973</td>
</tr>
<tr>
<td>Louisiana</td>
<td>3936</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>3743</td>
</tr>
<tr>
<td>Total</td>
<td>55,868</td>
</tr>
</tbody>
</table>

>55% OF PEOPLE WITH SCD RESIDE IN 10 STATES

References:
**FACTS ABOUT SICKLE CELL DISEASE**

Sickle Cell Disease Is the Most Common Genetic Blood Disorder in the United States\(^1,2\)

<table>
<thead>
<tr>
<th>Disorder</th>
<th>Number of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sickle Cell Disease</td>
<td>100K</td>
</tr>
<tr>
<td>Huntington's Disease</td>
<td>30K</td>
</tr>
<tr>
<td>Cystic Fibrosis</td>
<td>30K</td>
</tr>
<tr>
<td>Muscular Dystrophy</td>
<td>29K</td>
</tr>
<tr>
<td>Hemophilia</td>
<td>20K</td>
</tr>
</tbody>
</table>

**SICKLE CELL DISEASE IS >3 TIMES MORE PREVALENT THAN OTHER RARE INHERITED DISORDERS**

Funding for Cystic Fibrosis Is Greater Than That for Sickle Cell Disease\(^7\)

Per affected individual, funding for cystic fibrosis is **11 times greater** than that for sickle cell disease (SCD)

Based on the National Institutes of Health, Sickle Cell Disease Association of America, Inc., Cystic Fibrosis Foundation\(^6\), and Cystic Fibrosis Foundation Therapeutics Inc. in 2011.

**Despite its higher prevalence, SCD awareness and funding are lower than that of other genetic diseases.**\(^8\)

Learn more at: [www.RethinkSCD.com](http://www.RethinkSCD.com)

References:
FACTS ABOUT SICKLE CELL DISEASE

Average Life Expectancy for People With Sickle Cell Disease in the United States Is 40-45 Years of Age

Life Expectancy of People With Sickle Cell Disease in the United States

Major advances in sickle cell disease (SCD) screening and interventions over the past 4 decades have increased life expectancy; however, life expectancy is still more than 30 years lower than that of the general population.1,2


The majority of people with SCD in the United States are adults and of African ancestry. Patients of Hispanic, South Asian, South European, and Middle Eastern descent are also affected.2-4

Learn more at: www.RethinkSCD.com

*Based on the United States Census Bureau data from 1979-2005.

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FACTS ABOUT SICKLE CELL DISEASE

Sickle Cell Disease Goes Beyond Red Blood Cells and, Early on, Progresses to a Chronic Vascular Disease

- Sickle cell disease (SCD) is a genetic blood disorder arising from mutations in the hemoglobin gene.1,2
- Multicellular adhesion among endothelium and blood cells is a major driver of vaso-occlusion and vaso-occlusive crises (VOCs).1
- The upregulation and expression of specific adhesion mediators, including selectins, drive multicellular adhesion clusters.3,4
- VOCs are the clinical hallmark of SCD and originate from ongoing, silent, vaso-occlusion.4,5

Vaso-Occlusive Crises May Account for a Majority of the Burden of Sickle Cell Disease

- VOCs may be the only tip of the ongoing vaso-occlusion iceberg.4,5
- 79% of VOCs are treated at home; many patients do not seek the medical attention they need.7,8

The Burden of VOCs on Both Patients and Their Caregivers

- VOCs are the primary reason for emergency room visits and hospital admissions in patient with SCD.9,10
- VOCs are associated with increased health care costs.7,9,11
- VOCs are associated with decreased quality of life and increased risk of organ damage, multiorgan failure, and death.1,6,8
- VOCs are unpredictable, extremely painful events that last, on average, 10 days.5,6

Learn more at: www.RethinkSCD.com

References: