HEPATITIS C CURRICULUM

Hepatitis C Incidence and Prevalence in the U.S.

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Disclosure Information

- No disclosures to report
Hepatitis C Incidence and Prevalence in the US: Outline

- HCV Incidence
- HCV Prevalence
- Awareness of Hepatitis C Infection
Hepatitis C Incidence and Prevalence

**HCV Incidence.** The number of people who become newly infected with HCV in a defined time period.

**HCV Prevalence.** The number of people living with HCV in a population at a point in time.

Source: CDC Division of Viral Hepatitis. Statistics and Surveillance.
HCV Incidence in the United States
Hepatitis C Incidence in United States, 1982-2010

Source: CDC Division of Viral Hepatitis. Statistics and Surveillance.
Hepatitis C Incidence in United States, 1982-2010

Number of Cases

Surrogate testing of blood donors

Estimated New Infections

Anti-HCV test (1st gen) licensed

Decline among transfusion recipients

Anti-HCV test (2nd gen) licensed

Decline among injection drug users


0 50,000 100,000 150,000 200,000 250,000 300,000 350,000
### Incidence of New Hepatitis C Infections

<table>
<thead>
<tr>
<th>Type of Cases</th>
<th>Year</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Clinical Cases Reported</td>
<td></td>
<td>1,223</td>
<td>891</td>
<td>758</td>
<td>694</td>
<td>802</td>
<td>849</td>
<td>878</td>
<td>781</td>
<td>853</td>
</tr>
<tr>
<td>Estimated Number of Acute Clinical Cases</td>
<td></td>
<td>4,800</td>
<td>4,500</td>
<td>4,200</td>
<td>3,400</td>
<td>3,200</td>
<td>2,800</td>
<td>2,900</td>
<td>2,600</td>
<td>2,800</td>
</tr>
<tr>
<td>Estimated Number of New Infections</td>
<td></td>
<td>29,000</td>
<td>28,000</td>
<td>26,000</td>
<td>21,000</td>
<td>19,000</td>
<td>17,000</td>
<td>18,000</td>
<td>16,000</td>
<td>17,000</td>
</tr>
</tbody>
</table>

**Source:** CDC. Division of Viral Hepatitis-Statistic and Surveillance.
Acute Hepatitis C Incidence by Age Group, United States, 1992-2009

Source: CDC and Prevention and National Notifiable Disease Surveillance System.
Sentinel Counties Surveillance Project, 1982-2006
Acute Hepatitis C Incidence (per 100,000 Population) by Race

HCV Prevalence in the United States
NHANES Survey
Estimated Prevalence of Hepatitis C in U.S.

4.1 million Persons Antibody Positive for HCV
3.2 million Persons Living with Chronic HCV

Expanded Estimate of HCV Prevalence
Estimated Number of anti-HCV Positive Persons in U.S

HCV Prevalence Estimate: Expansion of NHANES Survey

- Addition of Groups
  - Incarcerated
  - Homeless
  - Nursing Home Residents
  - Hospitalized Persons
  - Active Military Duty

- Recalculation of Groups
  - Healthcare Workers
  - Chronic Hemodialysis
  - Veterans

5.2 million Antibody Positive for HCV

NHANES Survey and Expanded Prevalence
Estimated Number of anti-HCV Positive Persons in U.S

Prevalence of HCV Antibody, by Year of Birth

Prevalence of HCV Antibody, by Year of Birth

Year of Birth


HCV Infection (Antibody Test or HCV RNA)

HCO Population: 865,659
Population: 865,659
Tested: 109,575
HCV Positive: 6,008

Tested 12.7%
Not Tested

HCV-Negative
HCV-Positive 5.5%

Hepatitis web study

2.1 2.2 5.9 11.0 5.3 3.5 2.9

HCV Infected (%)

Age Group (years)

<30 30-39 40-49 50-59 60-69 70-79 >80

HCV infection defined as either positive anti-HCV or HCV RNA

Private Health Care Organizations, United States, 2006-2008
HCV Infection by Race

HCV infection defined as either positive anti-HCV or HCV RNA

Awareness of HCV Infection States
NHANES Survey, United States, 2001-2008
Awareness of HCV Infection Status

Knowledge of HCV Infection

Unaware 50%
AWARE 50%

NHANES Survey, United States, 2001-2008
Lack of Knowledge of HCV Infection Status, by Age

NHANES Survey, United States, 2001-2008
Lack of Knowledge of HCV Infection Status, by Race

Undiagnosed HCV (%)

- White non-Hispanic: 49
- Black non-Hispanic: 57
- Hispanic/other/multiple: 44

Private Health Care Organizations, United States, 2006-2008
Awareness of HCV Infection Status

Knowledge of HCV Infection

- Aware: 57%
- Unaware: 43%

Hepatitis C Incidence and Prevalence in the U.S.: Summary

- The HCV annual incidence has declined dramatically since the mid-1980’s
- In 2010, an estimated 17,000 new cases of hepatitis have occurred
- An estimated 4.2 to 5.1 million persons are HCV antibody positive
- An estimated 3.2 to 4.1 million persons are living with chronic hepatitis C
- The HCV prevalence is highest among persons born during 1945 to 1965
- Approximately 50% of persons are unaware of their hepatitis C status
This presentation is brought to you by Hepatitis Web Study & the Hepatitis C Online Course

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