

## Percentage of Acute Confirmed Hepatitis B Cases with Complete Information — WV, 2014 By Region

(Percent represents the proportion of cases with a complete (yes or no) answer)

<u>Indicator</u>	<b>West Virginia</b>	<b>Southern</b>	<b>Western</b>	<b>Eastern</b>	<b>Northeastern</b>	<b>Northwestern</b>	<b>Central</b>
<b>Total Cases</b>	186	50	35	15	10	15	61
<b><u>Demographic</u></b>							
County	100%	100%	100%	100%	100%	100%	100%
Age	100%	100%	100%	100%	100%	100%	100%
Gender	100%	100%	100%	100%	100%	100%	100%
Ethnicity	82%	84%	91%	80%	50%	73%	82%
Race	92%	98%	94%	100%	60%	87%	90%
<b><u>Clinical</u></b>							
Symptomatic (yes)	100%	100%	100%	100%	100%	100%	100%
Jaundice	100%	100%	100%	100%	100%	100%	100%
Was the patient a <b>contact</b> of a person with confirmed or suspected acute or chronic <b>HBV infection</b> ?	94%	100%	86%	87%	90%	80%	98%
Was the patient <b>EVER treated for STD</b> ?	94%	100%	86%	89%	90%	80%	98%
Did the patient <b>inject drugs</b> not prescribed by a doctor?	94%	96%	86%	87%	90%	93%	98%
Did the patient <b>use street drugs</b> but not inject?	94%	96%	86%	87%	90%	93%	98%

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Did the patient <b>undergo hemodialysis</b> ?	94%	100%	86%	87%	90%	80%	98%
Did the patient have an <b>accidental stick or puncture</b> with a needle or other contaminated object?	94%	100%	86%	87%	90%	80%	98%
Did the patient receive <b>blood or blood products (transfusion)</b> ?	94%	100%	86%	87%	90%	80%	98%
Did the patient receive any <b>IV infusion and/or injection in the outpatient setting</b> ?	94%	100%	86%	87%	90%	80%	98%
Did the patient have other <b>exposure to someone else's blood</b> ?	94%	100%	86%	87%	90%	80%	98%
Was the patient employed in a <b>medical or dental field</b> involving direct contact with human blood?	93%	98%	86%	87%	90%	80%	98%
Was the patient employed as a <b>public safety worker</b> having direct contact with human blood?	94%	100%	86%	87%	90%	80%	98%
Did the patient receive a <b>tattoo</b> ?	94%	100%	86%	87%	90%	80%	98%

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Did the patient have any part of their <b>body pierced</b> (other than ear)?	94%	100%	86%	87%	90%	80%	98%
Did the patient have <b>dental work or oral surgery</b> ?	94%	100%	86%	87%	90%	80%	98%
Did the patient have <b>surgery</b> ?	93%	98%	86%	87%	90%	80%	98%
Was the patient <b>hospitalized</b> ?	93%	98%	86%	87%	90%	80%	98%
Was the patient a <b>resident of long-term care facility</b> ?	94%	98%	86%	87%	90%	93%	98%
Was the patient <b>incarcerated for longer than 24 hours</b> ?	94%	98%	86%	87%	90%	87%	98%
During his/her lifetime, was the patient <b>EVER incarcerated for longer than 6 months</b> ?	92%	98%	86%	87%	80%	80%	98%
Lost to follow up (y/n answer)?	99%	100%	97%	100%	100%	100%	100%

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Education provided?	92%	98%	86%	87%	90%	100%	98%
<b>Percentage of Acute Hepatitis B who are lost to follow up</b>							
<b>Lost to follow up...? (answered yes)</b>	17% 32/186	10% 5/50	37% 13/35	33% 5/15	0% 0/10	27% 4/15	8% 5/61

### **Strengths**

- Implementation of documentation of education provided to patient within case investigation.
- Proportion of cases and reported risk factors corresponds to regions of WV that report higher levels of IVDU.

### **Limitations**

- West Virginia has transitioned from eight regions to six regions, therefore reassigning new counties to Regional Epidemiologists.
- Many patients can be difficult to locate due to changing contact information.
- Several patients do not trust interviewer to provide information such as illegal activity to Local Health Department.

### **Recommendations**

- A differentiation between incomplete responses, unknown, and those responses where the local health department is unable to communicate with the patient.
- More extensive documentation when a patient is lost to follow up and why.
- State resources available to assist Regions with case investigations include: Vital Statistics, Disease Investigation Specialists, Hepatitis B Epidemiologist, Perinatal Hepatitis B Program, and Local Hospital Electronic Medical Records Systems access.