

Percentage of Acute Confirmed Hepatitis B Cases with Complete Information — WV, 2015 By Region

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

<u>Surveillance Indicator</u>	West Virginia	Southern	Western	Eastern	Northeastern	Northwestern	Central
Total Cases	272	50	73	20	15	28	86
<u>Demographic</u>							
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	89%	96%	86%	70%	80%	86%	94%
Race	90%	96%	97%	75%	80%	82%	93%
<u>Clinical</u>							
Symptomatic (yes) Y/N	100%	100%	100%	100%	100%	100%	100%
Jaundice	99%	100%	99%	100%	100%	96%	95%
Was the patient a contact of a person with confirmed or suspected acute or chronic HBV infection ?	63%	72%	67%	60%	53%	57%	60%
Was the patient EVER treated for STD ?	71%	92%	72%	75%	40%	54%	66%
Did the patient inject drugs not prescribed by a doctor?	89%	90%	86%	95%	67%	89%	94%
Did the patient use street drugs but not inject?	81%	86%	78%	90%	67%	82%	81%

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Did the patient undergo hemodialysis ?	81%	94%	78%	90%	73%	93%	72%
Did the patient have an accidental stick or puncture with a needle or other contaminated object?	77%	94%	77%	90%	60%	75%	69%
Did the patient receive blood or blood products (transfusion) ?	79%	94%	77%	90%	67%	82%	71%
Did the patient receive any IV infusion and/or injection in the outpatient setting ?	79%	94%	77%	90%	67%	79%	72%
Did the patient have other exposure to someone else's blood ?	71%	86%	70%	85%	47%	57%	67%
Was the patient employed in a medical or dental field involving direct contact with human blood?	81%	94%	78%	90%	73%	89%	72%
Was the patient employed as a public safety worker having direct contact with human blood?	81%	94%	79%	90%	80%	89%	71%
Did the patient receive a tattoo ?	76%	94%	78%	90%	53%	64%	73%

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Did the patient have any part of their body pierced (other than ear)?	76%	94%	75%	90%	53%	64%	72%
Did the patient have dental work or oral surgery ?	78%	94%	75%	90%	60%	71%	72%
Did the patient have surgery ?	79%	94%	75%	90%	67%	79%	72%
Was the patient hospitalized ?	80%	94%	77%	90%	73%	82%	73%
Was the patient a resident of long-term care facility ?	81%	92%	77%	90%	80%	86%	74%
Was the patient incarcerated for longer than 24 hours ?	75%	94%	75%	85%	67%	57%	70%
During his/her lifetime, was the patient EVER incarcerated for longer than 6 months ?	74%	92%	75%	85%	53%	57%	69%
Has the patient received the hepatitis B vaccine?	63%	82%	66%	70%	40%	54%	56%
Education provided?	92%	100%	90%	100%	80%	89%	88%

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Lost to follow up (y/n answer)?	99%	100%	90%	100%	100%	100%	98%
Patient lost to follow up...? (answered yes) 2015	43/272 (16%)	3/50 (6%)	15/73 (21%)	3/20 (15%)	4/15 (27%)	5/28 (18%)	13/86 (15%)
Patient lost to follow up...? (answered yes) 2014	32/186 (17%)	5/50 (10%)	13/35 (37%)	5/15 (33%)	0/10 (0%)	4/15 (27%)	5/61 (8%)

Limitations

- Patients can be difficult to locate due to changing or unreliable contact information.
- The proportion of patients who do not provide accurate information such as illegal activity to Local Health Department.
- Lack of historical vaccination documentation to accurately reflect hepatitis B infection in previously vaccinated persons indicating vaccine failure.

Recommendations

- A differentiation between incomplete responses, unknown, and those responses where the local health department is unable to communicate with the patient.
- Accurate documentation from patient primary care provider of historical patient vaccination records.
- State resources available to assist Regions with case investigations include: The WV Health Statistics Center, DSHH Disease Investigation Specialists, Hepatitis B Epidemiologist, Perinatal Hepatitis B Program, Hospital Infection Preventionists, and Local Hospital Electronic Medical Records Systems access.