Hepatitis B Case Classification Algorithm

HBV abbreviations:
- HBsAg: HBV surface antigen
- Anti-HBs/HBsAb: HBV surface antibody
- HBV DNA: HBV Nucleic Acid Test [NAT]; PCR
- HBeAg: HBV little e antigen
- HBeAb: HBV little e antibody
- Anti-HBc: total HBV core antibody
- Anti-HBc IgM: HBV core antibody IgM

If no, start at

```
• Positive anti-HBs/HBsAb OR
• Positive total anti-HBc OR
• Positive HBeAb
```

If yes:

```
• Positive anti-HBs/HBsAb OR
• Positive total anti-HBc OR
• Positive HBeAb
```

```
If yes, start at
```

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Is HBsAg, HBeAg, HBV DNA OR anti-HBc IgM positive?

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Yes → Unknown
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Obtain additional testing from lab and/or doctor OR Recommend additional testing (if not previously done)

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Is one or more of the following positive?
- HBsAg, HBeAg and/or HBV DNA

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Does the patient have symptoms consistent with acute viral hepatitis (i.e. abdominal pain/cramps, fever, headache, malaise, anorexia, nausea, vomiting, dark urine, or diarrhea) AND has jaundice OR ALT levels >100 IU/L?

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Yes → Unknown
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No → Negative: HBsAg and/or HBV DNA
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Has the patient had a documented negative HBsAg result within 6 months prior to a positive test (HBsAg, HBeAg, or HBV DNA, HBV genotype)?

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Yes → Confirmed, Hepatitis B, Acute
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No → Not a case
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The patient have symptoms consistent with acute viral hepatitis (i.e. abdominal pain/cramps, fever, headache, malaise, anorexia, nausea, vomiting, dark urine, or diarrhea) AND has jaundice OR ALT levels >100 IU/L?

```
Yes → Unknown
```

```
No → Not a case
```

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Is the patient known to have a chronic hepatitis B infection?

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Yes → Confirmed, Hepatitis B, Chronic
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No → Unknown
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*Positive HBsAg, HBeAg and/or HBV DNA AND a negative anti-HBc IgM
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Has the patient had a documented positive HBsAg and/or HBeAg and/or HBV DNA test result ≥ 6 months prior?

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Yes → Confirmed, Hepatitis B, Chronic
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No → Probable Hepatitis B, Chronic
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Confirmed Acute and Chronic Hepatitis B Cases are reported to CDC annually

Revised September 2018 based on CSTE case definitions: https://www.cdc.gov/ndss/case-definitions.html