

**Criteria Grid**  
**Best Practices and Interventions for the Diagnosis and Treatment of Hepatitis C**

<b>Best Practice/Intervention:</b>	Bacon et al. (2011). Boceprevir for Previously Treated Chronic HCV Genotype 1 Infection, <i>The New England Journal of Medicine</i> , 364 (13), 1207-1217.			
<b>Date of Review:</b>	May 13, 2011			
<b>Reviewer(s):</b>	Alison Marshall			
<b>Part A</b>				
<b>Category:</b>	Basic Science <input type="checkbox"/> Clinical Science <input checked="" type="checkbox"/> Public Health/Epidemiology <input type="checkbox"/> Social Science <input type="checkbox"/> Programmatic Review <input type="checkbox"/>			
<b>Best Practice/Intervention:</b>	<p><b>Focus:</b>    Hepatitis C <input checked="" type="checkbox"/>    Hepatitis C/HIV <input type="checkbox"/>    Other:    HCV Genotype 1 Infection _____</p> <p><b>Level:</b>    Group <input checked="" type="checkbox"/>    Individual <input type="checkbox"/>    Other:    _____</p> <p><b>Target Population:</b>    <u>403 adults randomized to one of three treatment groups, 2 groups with boceprevir; mean age 52.7 yrs. Majority (64%) had had a relapse after previous HCV therapy; screened patients in North America and Europe. Non-responders excluded in this study.</u></p> <p><b>Setting:</b>    Health care setting/Clinic <input checked="" type="checkbox"/>    Home <input type="checkbox"/>    Other:    _____</p> <p><b>Country of Origin:</b>    <u>Multinational Study</u></p> <p><b>Language:</b>    English <input checked="" type="checkbox"/>    French <input type="checkbox"/>    Other:    _____</p>			
<b>Part B</b>				
	<b>YES</b>	<b>NO</b>	<b>N/A</b>	<b>COMMENTS</b>
<i>Is the best practice/intervention a meta-analysis or primary research?</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Primary Research</b> --Objective: compare the safety and efficacy of two therapeutic regimens of boceprevir in combination with peginterferon and ribavirin to therapy with peginterferon and ribavirin alone in patients <i>with <u>previously treated HCV genotype 1 infection</u></i> --See chart on p. 1209 for overview of Study Design

<i>The best practice/intervention has utilized an evidence-based approach to assess:</i>				
<i>Efficacy</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Effectiveness</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>The best practice/intervention has been evaluated in more than one patient setting to assess:</i>				
<i>Efficacy</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Effectiveness</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>YES</b>	<b>NO</b>	<b>N/A</b>	<b>COMMENTS</b>
<i>The best practice/intervention has been operationalized at a multi-country level:</i>				
<i>There is evidence of capacity building to engage individuals to accept treatment/diagnosis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>There is evidence of outreach models and case studies to improve access and availability</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>Do the methodology/results described allow the reviewer(s) to assess the generalizability of the results?</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Are the best practices/methodology/results described applicable in developed countries?</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Are the best practices/methodology/results described applicable in developing countries?</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	--Depends: costs and availability of drugs; skilled workers; oral administration of boceprevir to be taken three times daily with food and intervals of 7-9 hours between doses
<i>Evidence of manpower requirements is indicated in the best practice/intervention</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Juried journal reports of this treatment, intervention, or diagnostic test have occurred</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>International guideline or protocol has been established</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<p><i>The best practice/intervention is easily accessed/available electronically</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The New England Journal of Medicine, NEJM.org</p>
<p><i>Is there evidence of a cost effective analysis? If so, what does the evidence say?</i> <b>Please go to Comments section</b></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<p><i>How is the best practice/intervention funded?</i> <b>Please go to Comments section</b></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<p><i>Other relevant criteria:</i> <b>Notable Findings</b></p> <hr/> <p>**Overall, study showed promising benefits for previously treated persons who had experienced relapses</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>--sustained virologic response rate was significantly higher in groups that received boceprevir [Group 2: 59%; Group 3: 66%]  --Anemia was significantly more common in groups that received boceprevir; however, discontinuation for this reason was low (5 out of 161 patients in Group 3). Erythropoietin was administered to 41% and 46% of patients in Group 2 and Group 3, respectively  --small differences were seen between Group 2 &amp; Group 3. Group 3 had higher # of patients with undetectable HCV RNA level during treatment weeks 8-36. This difference appeared to be related to percentage of patients with cirrhosis at baseline who had an undetectable HCV RNA level at week 8 (18% in Group 2 to 73% in Group 3).  --median duration of treatment 2.4-3.2 times longer in Group 2 and Group 3  --high rates of sustained virologic response in black patients and patients with advanced liver disease. These groups usually have poor response rates.  --102 patients had a poor response to interferon; 33-34% of these patients achieved a sustained virologic response after boceprevir was added to their treatment regimen</p>