



### Creating a Beacon Treatment Plan Workflow

1. Complete the protocol request form (template can be found on CHPS website, Research Nursing Core page. under “EPIC/BEACON Info” section: <https://www.med.upenn.edu/chps/research-nursing-core-rnc.html>)
2. Email the protocol request form draft to Jess Lenzo ([Jessica.Lenzo@pennteam.upenn.edu](mailto:Jessica.Lenzo@pennteam.upenn.edu)) for CHPS review. The CHPS In-service cannot be scheduled until the CHPS review of the protocol request form is complete.
3. Once you receive CHPS approval, submit the protocol request form to the Beacon Team by placing a ticket using the following link: [Beacon Protocol Build Request](#). A ticket will open in the IS Self Service Portal which will be sent directly to the Beacon Team once submitted. Attach the protocol request form to the ticket before clicking the **Submit** button.
4. When the Beacon Team has received the ticket, they will notify IDS to advise that a protocol request form was received for the study. This will trigger the pharmacist to submit a medication build request form to the Beacon Team for the Investigational medication(s) required for the study.
5. **\*\*Please Note:** IDS will not submit a medication build request form to the Beacon Team until after the SIV has been completed.
6. Once the Beacon Team has received the medication build request form from IDS, they will build the medications. They will then email the study team, PI, and IDS to approve the beacon build extract and then pass it to the next reviewer while keeping everyone on the email so all are aware of the status.
7. When all approvals are received, the beacon build will be put into production.

### Why does CHPS Use Beacon Treatment Plans?

Beacon treatment plans are used for infusion areas. Because CHPS PCAM 4S is mapped as an infusion area, any orders are required to be in the context of a beacon build.

### Acknowledgement

We appreciate that study teams often use the beacon treatment plan as a reference for the study protocol. However, these are the official medical orders the CHPS RNs are working within under their nursing licenses. Therefore, we strive to minimize excess content, and focus the attention of the beacon build on the nursing orders for the safety of the patients.

### Advice for Conciseness

Do not replicate information (the same information should not be included in multiple areas of the beacon build.)

Do not include inclusion/exclusion criteria in the build—patients will not be assigned the beacon treatment plan until after eligibility is confirmed.

### Help

Please contact Jess Lenzo for CHPS beacon build questions. Please email the Beacon Team at [PennChartBeaconTeam@uphs.upenn.edu](mailto:PennChartBeaconTeam@uphs.upenn.edu) for beacon-specific questions.



<p>Please make sure you have the most up-to-date copy of this form by using the following hyperlink: <a href="#">Beacon Protocol Request Form</a></p> <p>If you have any questions, please email the following distribution group: <a href="mailto:PennchartBeaconProtocolInformation@uphs.upenn.edu">PennchartBeaconProtocolInformation@uphs.upenn.edu</a></p>	<p>Please provide the information applicable for the type of protocol requested.</p> <p>Standard of Care (SOC) protocol requests must be discussed with the designated disease lead prior to request form submission.</p> <p>Please submit an individual form for each arm of the study.</p>												
<p>Protocol Title [include UPCC ID #, IRB #, CHPS # for studies] Protocol Description [displays when searching for protocol] Synonyms [aids in searching for protocol]</p>	<p>Please include all of the below:</p> <p>Protocol Title UPCC # if applicable IRB# CHPS#</p>												
<p>Dispensing Pharmacy for Investigational Meds [if applicable]  Dispensing Pharmacy for SOC Meds [if applicable]</p>	<p>IDS (and PCAM pharmacy if applicable)</p>												
<p>Site where patient is likely to receive treatment Anticipated Date of Use / SIV Date</p>	<p>CHPS Outpatient PCAM: PCAM 4S CHPS Outpatient Presby: Presby Mutch CHPS Inpatient: Dulles 1 CHPS Scattersite: list unit where patient will be admitted If patient is also receiving treatment in SOC infusion area, please include as well. Please include SIV date</p>												
<p>Type of Protocol Request [Check all that apply]</p>	<table border="1"> <tr> <td>SOC</td> <td><input type="checkbox"/></td> <td>Investigational</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oncology</td> <td><input type="checkbox"/></td> <td>Non-Oncology</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Inpatient</td> <td><input type="checkbox"/></td> <td>Outpatient</td> <td><input type="checkbox"/></td> </tr> </table> <p>(Mark all that apply)</p>	SOC	<input type="checkbox"/>	Investigational	<input type="checkbox"/>	Oncology	<input type="checkbox"/>	Non-Oncology	<input type="checkbox"/>	Inpatient	<input type="checkbox"/>	Outpatient	<input type="checkbox"/>
SOC	<input type="checkbox"/>	Investigational	<input type="checkbox"/>										
Oncology	<input type="checkbox"/>	Non-Oncology	<input type="checkbox"/>										
Inpatient	<input type="checkbox"/>	Outpatient	<input type="checkbox"/>										
<p>Total Number of Cycles Cycle Length [specify if different between cycles] Days per Cycle [specify days eg. 1,8,15 and if different between cycles]</p>	<p>Example: 6 cycles 21 day cycle length, Days 1, 8, 15</p>												
<p>Journal Article [Required for SOC protocol]</p>	<p>Reference Information: <a href="https://www">https://www</a> _____ (mark N/A)</p>												
<p>Required for investigational protocols</p>	<p>Principal Investigator:</p>												



	<p><b>Phone number: Please include PI's cell phone number so RNs can directly reach them in case of emergency</b></p> <p><b>Research Nurse/Coordinator: Please keep this up to date</b></p> <p><b>Phone number:</b></p>
<p><b>Provider Information</b> [information that the provider should know when applying the protocol to a patient]</p>	<p>Include: 1 sentence about patient population and 1 sentence about (each of) the investigational product</p> <p>If your PI has specific preferences about what they'd like to see, please include. This should not be repetitive with information located elsewhere in the beacon treatment plan. Do not copy and paste large sections of the protocol into this section.</p>
<p><b>Lab Reminders</b> [labs to be ordered outside of treatment plan and resulted prior to treatment] [indicate differences between cycles/days]</p>	<p>Keep this concise.</p> <p>Also include: <b>"Refer to CHPS Nursing Worksheets"</b></p>
<p><b>Treatment Conditions</b> [conditions in which treatment would be HELD and the provider contacted for approval to treat] [indicate differences between cycles/days]</p>	<p>Keep this concise and specific to patients on study. Do not copy and paste inclusion/exclusion criteria from protocol.</p> <p>Include any parameters that must be checked using lab values, not CTCAE grading. For example: "Hold treatment until resulted and notify prescriber if: ANC &lt; 1000/mm<sup>3</sup> platelets &lt; 75,000 mm<sup>3</sup> AST/ALT &gt; 3 x ULN Total Bilirubin &gt; 1.5 x ULN Serum Creatinine &gt; 1.5 x ULN"</p> <p>Also include: <b>"Study team to contact CHPS RN once treatments conditions are met to release IP."</b></p>
<p><b>Nursing Instructions</b> [indicate differences between cycles/days]</p>	<p>Prefer to include only: <b>"Refer to CHPS Nursing Worksheets."</b></p> <p>If other information is included, please keep concise.</p>
<p><b>Prohibited Meds</b></p>	<p>Keep this concise.</p> <p>Include, <b>"Study team to review prohibited meds."</b></p>
<p><b>Take Home Med Reminders</b> [prescriptions ordered outside of treatment plan for patient to take at home]</p>	<p>This is for prescriptions ordered outside of the treatment plan for patient to take at home. Leave blank if N/A.</p>



<b>Triage Documentation</b> [note for triage purposes]	CHPS does not use the triage function, write N/A.
<b>Research Information</b> [for investigational protocols]	May include patient's study ID or leave blank. If there is a dose escalation schema, may include doses for each cohort here. Do not copy and paste tables into the build. For example: "Dosing schedule based on cohorts: Cohort 1: Day 1 dose 0.15mg -> Day 8 dose 0.5mg -> Day 15 dose 1.5mg Cohort 2: Day 1 dose 0.5mg -> Day 8 dose 1.5mg -> Day 15 dose 5mg Cohort 3: Day 1 dose 1.5 mg -> Day 8 dose 5 mg -> Day 15 dose 15 mg"



### Medication administration and scheduling information:

#### Pre-medications & Anti-emetics [include cycle and day med is given eg: Cycles:1-3 Days:1 & 8]

Medication [volume/diluent/ duration if IV mixture]	Dose	Route	Administration Instructions	Notes to Pharmacy	Outpatient Cycles: Days:	Inpatient Frequency/ Duration
If no premeds, write N/A.	Specific dose, not a range	Specify, example: PO, IV	Include timeframe (example: Administer 30-60 minutes prior to investigational product infusion.)	Include any specific notes to pharmacist	Specify, example: All Cycles, Days 1, 8, 15	Specify if inpatient



### Pre-hydration [include cycle and day med is given eg: Cycles:1-3 Days:1 & 8]

Medication [volume/diluent/ duration if IV mixture]	Dose	Route	Administration Instructions	Notes to Pharmacy	Outpatient Cycles: Days:	Inpatient Frequency/ Duration
Mark as N/A if not applicable.	Specify rate of infusion					



### Treatment [include cycle and day med is given eg: Cycles:1-3 Days:1 & 8]

Medication [volume/diluent/ duration if IV mixture]	Dose	Route	Administration Instructions	Notes to Pharmacy [tubing]	Outpatient Cycles: Days:	Inpatient Frequency/ Duration
<b>If the IP is placebo-controlled, specify, "AB-123 or placebo"</b>	Include specific amount. If dose varies, include details in "research information" section	Specify	<ul style="list-style-type: none"> <li>• If there are multiple drugs given, specify the order of administration and any amount of wait time in between.</li> <li>• Specify length of administration.</li> <li>• Include any information about expiration time and/or if a filter is needed.</li> <li>• Please reference the CHPS Flush SOP before including information about a flush.</li> </ul>		Example: Cycle 1 Day 1, 8, 15	Only include if inpatient study



### Supportive Care & Post Hydration [include cycle and day med is given eg: Cycles:1-3 Days:1 & 8]

Medication [volume/diluent/ duration if IV mixture]	Dose	Route	Administration Instructions	Notes to Pharmacy	Outpatient Cycles: Days:	Inpatient Frequency/ Duration
Example: ondansetron	8mg	IV	PRN once for nausea		All cycles, days "AB- 123 or placebo" is given	





### Emergency Medications [include cycle and day med is given eg: Cycles:1-3 Days:1 & 8]

Include Emergency Medication Order group 210 (see screenshot at end of form)?

Yes	<input checked="" type="checkbox"/>	Cycles	<input type="text"/>	Days	<input type="text"/>
No	<input type="checkbox"/>				

If no, then specify desired medications, below if needed

Medication	Dose	Route	Administration Instructions	Notes to Pharmacy	Outpatient Cycles: Days:	Inpatient Frequency/ Duration
Please include any study-specific emergency meds (such as Ativan for seizure study.) All studies will include "Order Group #210 – Hypersensitivity/Anaphylaxis Algorithm" unless otherwise specified.						



### Order Group #210 – Hypersensitivity/Anaphylaxis Algorithm

PRN Emergency Medications	Actions ▾ ✕
<b>Nursing Instructions</b> EPINEPHrine is FIRST LINE therapy if criteria for anaphylaxis met Supplemental oxygen 4-8 L/min via nasal cannula Serum tryptase to be obtained within 90 minutes of symptom onset IV epinephrine should be started if unresponsive to IM EPINEPHrine after 3 doses	Actions ▾ ✕
<b>EPINEPHrine 0.3 mg/0.3 mL injection 0.3 mg</b> 0.3 mg, intramuscular, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Administer first if criteria met for anaphylaxis  0.3 mg intramuscular into the anterior-lateral thigh every 5 minutes up to 3 doses IF patient symptoms persist HIGH ALERT MEDICATION	Actions ▾ ✕
<b>diphenhydramine 50 mg/mL injection 50 mg</b> 50 mg, intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Administer following EPINEPHrine (if anaphylaxis) or administer first if isolated hives/angioedema.  50 mg intravenous over 2 minutes every 4 hours for up to 2 doses. Intravenous administration of up to 100 mg undiluted should be given at a rate of 25 mg/min.	Actions ▾ ✕
<b>methylprednisolone sodium succinate injection 125 mg</b> 125 mg, intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Administer following diphenhydramine.  125 mg intravenous over 2 minutes.	Actions ▾ ✕
<b>famotidine PF 20 MG/2ML injection 20 mg</b> 20 mg, intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Administer following methylprednisolone.  Dilute famotidine 20 mg/2 mL with 3 mLs of NSS to a final volume of 5mLs.	Actions ▾ ✕
<b>sodium chloride 0.9 % infusion</b> 500 mL/hr, intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Sodium chloride 0.9% infusion intravenous at 500 mL/hr and titrated based on vital signs. Indicated for the treatment of decreased blood pressure, increase in heart rate, symptoms of cardiovascular collapse (lightheaded, dizziness, hypotension) as defined by the anaphylaxis criteria.	Actions ▾ ✕
<b>albuterol (5 mg/mL) 0.5% nebulizer solution 2.5 mg</b> 2.5 mg, nebulizer, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Nebulizer every 20 minutes for up to 3 doses then may be continued every 1 hour as needed if wheezing is present and no response to EPINEPHrine is observed within 5 minutes of administration.  Nebulizer preferred over inhaler for patients in respiratory distress.	Actions ▾ ✕
<b>albuterol inhaler 4 puff</b> 4 puff, inhalation, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. 4 puffs inhaled via inhaler every 20 minutes for up to 12 doses then may be continued as 2 puffs every 4 hours as needed if wheezing is present and not responsive to EPINEPHrine within 5 minutes.  Nebulizer preferred over inhaler for patients in respiratory distress.	Actions ▾ ✕
<b>glucagon injection 1 mg</b> 1 mg, intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. For patients on beta-blocker therapy and refractory to EPINEPHrine.  1 mg intravenous over 5 minutes once then followed by infusion.	Actions ▾ ✕
<b>glucagon 25 mg in DSW 250 mL infusion</b> 3 mg/hr (30 mL/hr), intravenous, Once PRN, Starting when released, Until Discontinued, Sequential allergic algorithm management. Bolus Dose: 3-10 mg Starting Infusion: 3 mg/hr Max titration: 5 mg/hr	Actions ▾ ✕