

PHIS & CPS Project - Quick Guide For Manufacturing IV for Mobile App

**Summary of Ticket Number and Requests on Manufacturing IV (Mobile)**

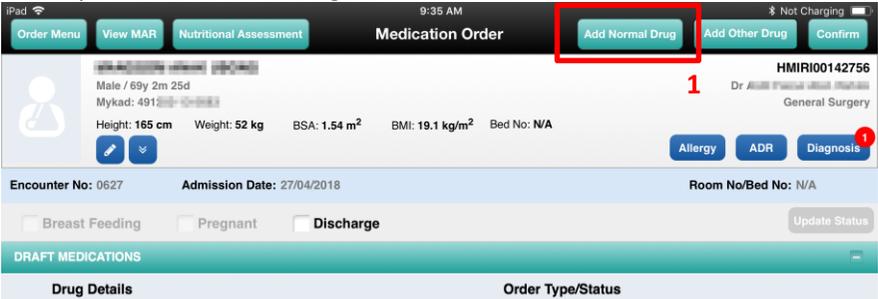
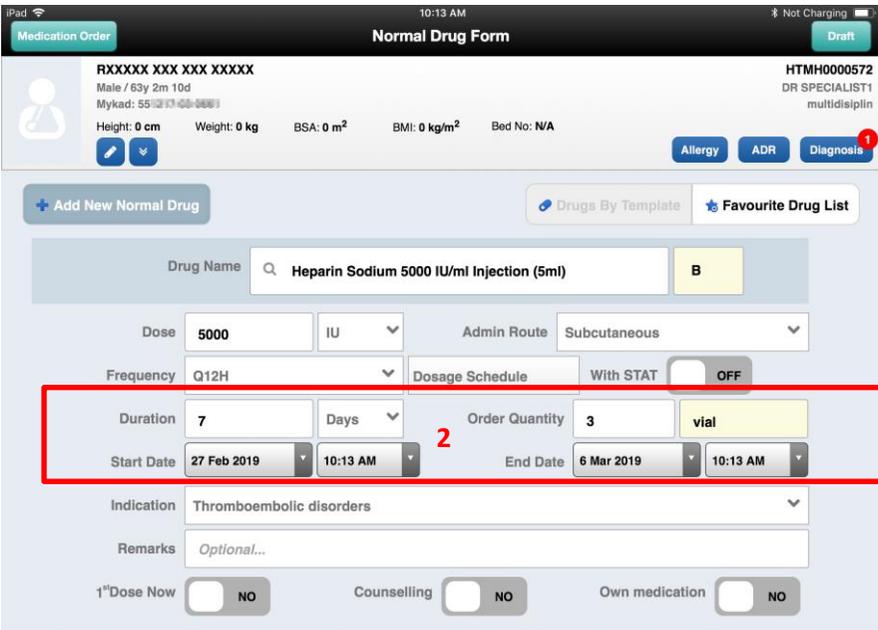
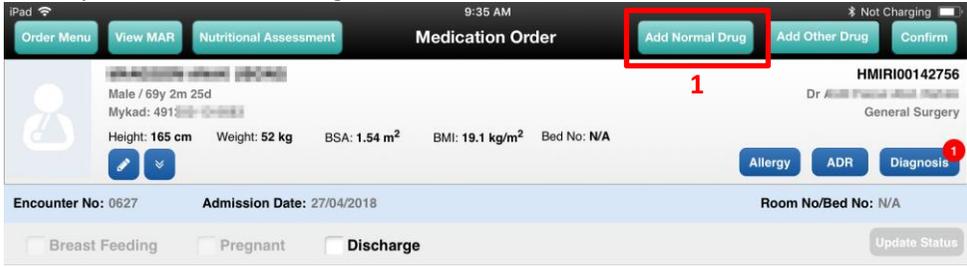
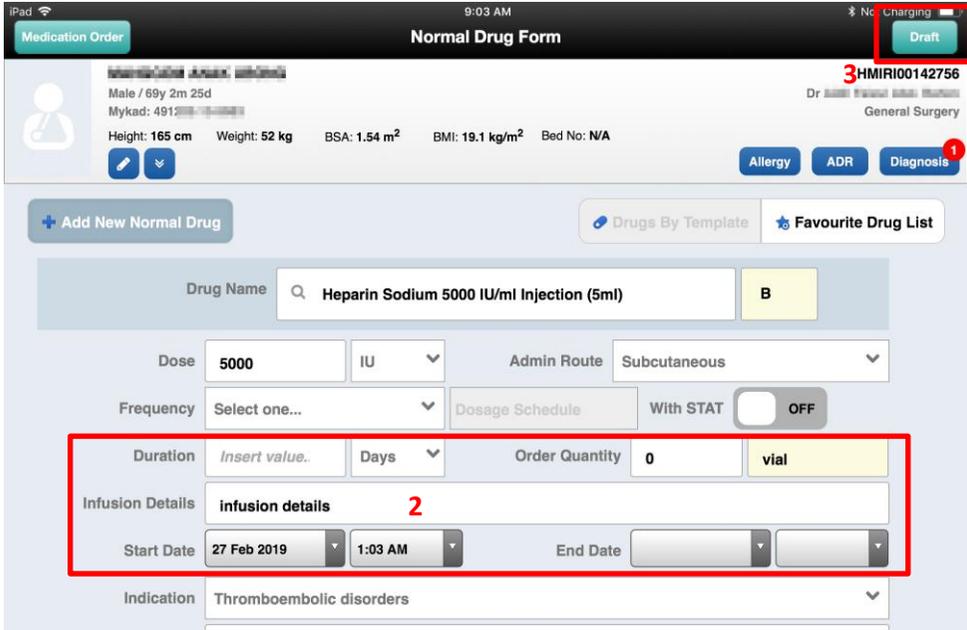
No.	Ticket #	Description	Requests	Solution
1.	I-PhIS01374 4916S	<b><u>IV order - Transcribing infusion medication</u></b> Diluent must be filled when transcribed infusion medication and stock will be deducted. Current hospital setting is IV Drips has been supplied to 18respective wards and nurse will use their own stock as diluent.  To removed compulsory Diluent supply in 'Infusion Order' function	Update IV Order function	Normal Order: Add new free text field of 'Infusion Details' for the IV drugs. Prescriber enter the details, the details will be displayed in all related screens (pharmacy dispensing, MAR, med profile)
2.	I-PhIS00878 9815S	<b><u>Request all inotrope order to view until Verification screen for pharmacist to verify.</u></b> Currently, all IV inotrope order flow directly to MAR screen for nurse administration. User request for all inotrope order to flow to pharmacist as ward stock to view only until Verification screen.  After pharmacist verify, no need to display the order in preparation screen.  Module: Manufacturing - IV Time: 12.00 pm, 05/02/2015	Update IV Order function	
3.	I-PhIS01526 1916S	<b><u>(1.4.1) Medication Order - Request to enable edit Infusion Rate</u></b> User request to enable edit Infusion Rate fill on Infusion Order. User stated when he edit the infusion over(hour and minute) will affect the infusion rate.  IPAD Version 1.4.1	To update infusion rate calculation	To update calculation as: $\text{Infusion Rate} = \text{Fluid Volume} / \text{Infuse Over}$ $\text{Fluid Volume} = \text{Infusion Rate} * \text{Infuse Over}$ $\text{Infuse Over} = \text{Fluid Volume} / \text{Infusion Rate}$
4.	I-PhIS01209 6415S	<b><u>IV Order - Request for Ordered Concentration, Infusion Rate and Duration editable</u></b> User request variable not automatic calculation for column "Ordered Concentration", "Infusion Rate" and "Duration" at screen "Infusion Oder"	To update infusion rate calculation	
5.	I-PhIS01221 1315S	<b><u>Order management (IV) - Request to be able to alter Ordered concentration and infusion rate</u></b>  "User reported iPad version for "Infusion Order" is not user friendly, because unable to alter Ordered concentration and infusion rate	To update infusion rate calculation	



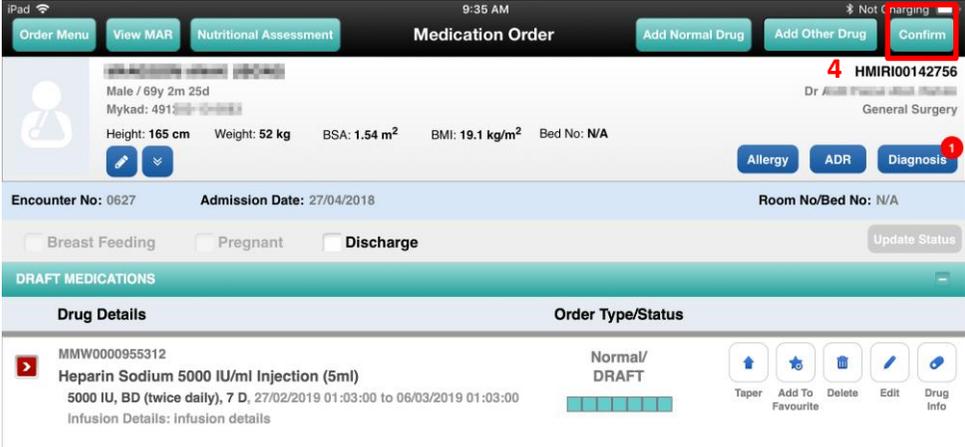
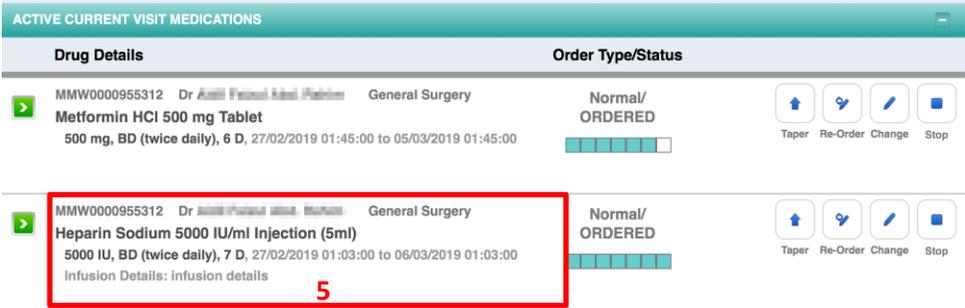
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		e.g. IV Pantoprazole 80mg in 50cc NS run at 5cc per hour ( unable to key in infusion rate) and IV Noradrenaline 8mg in 50cc NS run at 10.3cc per hour (=0.5mcg/kg/min) Unable to key in infusion rate."		
6.	I-PhIS01615 1216S	<b><u>Request to add Patient IC No for PN and IV drug label.</u></b> Request to add Patient IC No for PN and IV drug label.	Add patient No in IV drug label	Add patient No in IV drug label

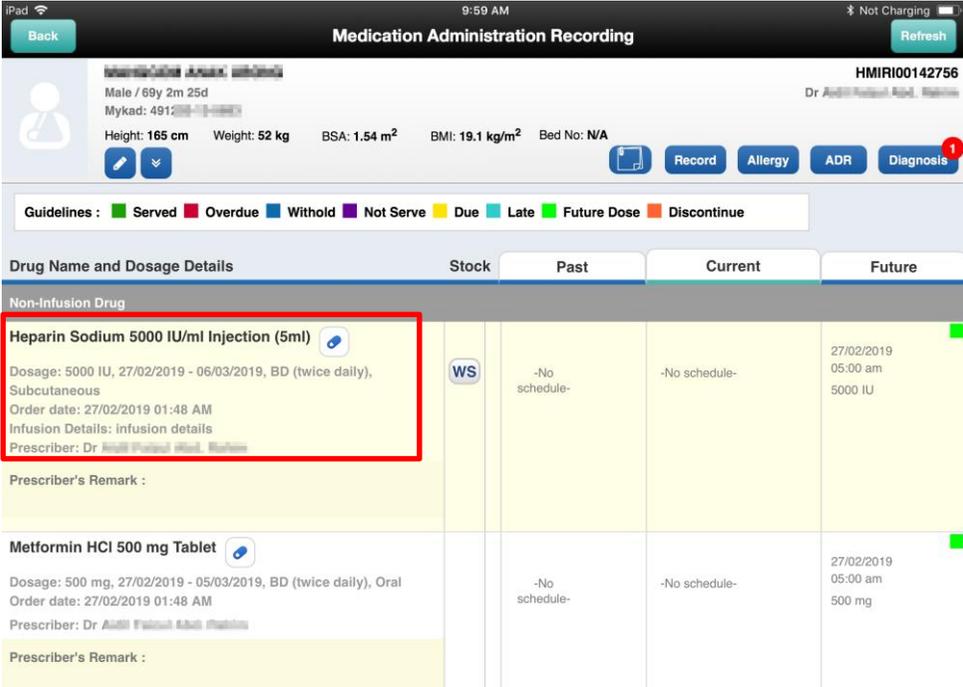
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Function Flow	Current Version 2.0	New Version 2.2
<p>1. New field for 'Infusion Details' in Normal Order</p>	<ul style="list-style-type: none"> <li>'Normal Drug order': No field to enter 'Infusion Details'. User to fill in the details in 'Remarks' field only.</li> </ul> <ol style="list-style-type: none"> <li>Tap on <b>Add Normal Drug(1)</b> button in Medication Order screen.            </li> <li>Add infusion drug and <b>Infusion Details field(2)</b> is not available in this version.            </li> </ol>	<ul style="list-style-type: none"> <li>Allow to enter Infusion Details in 'Normal Drug order' and display the Infusion Details in all related screens.</li> </ul> <ol style="list-style-type: none"> <li>Tap on <b>Add Normal Drug(1)</b> button in Medication Order screen.            </li> <li>Add infusion drug and <b>Infusion Details field(2)</b> will appear.           <ul style="list-style-type: none"> <li>This new field will display only when the selected drug is specified as 'IV Drug' in Drug Master</li> </ul>  </li> </ol>

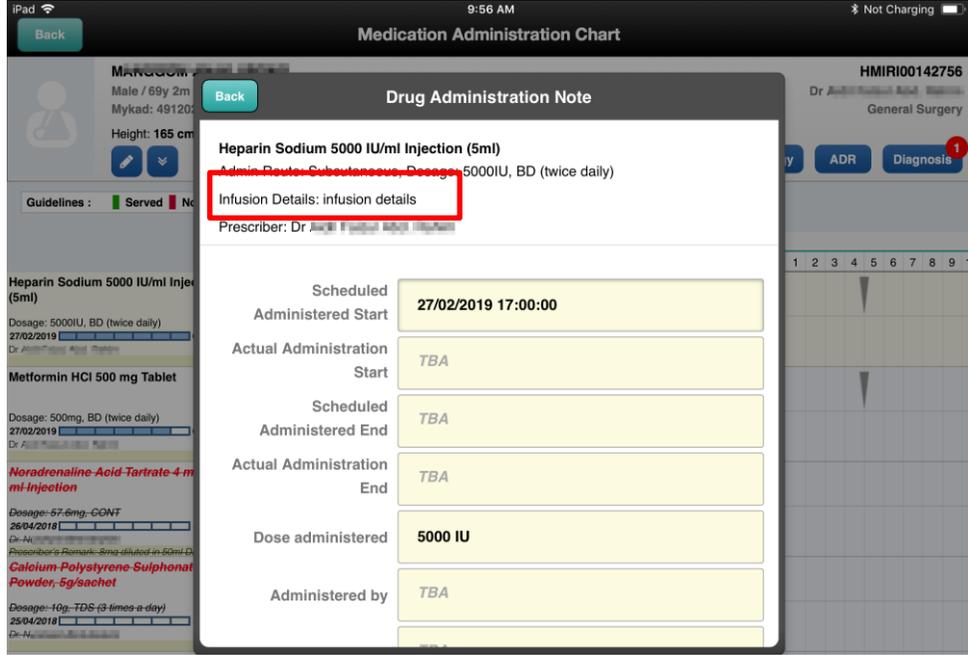
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		<p>3. Tap on <u>Draft(3)</u> button then tap on <u>Confirm(4)</u> button to save the drug order.</p>  <p>4. Drug order will be saved and user can see the <u>Infusion Details(5)</u> below the drug name.</p> 

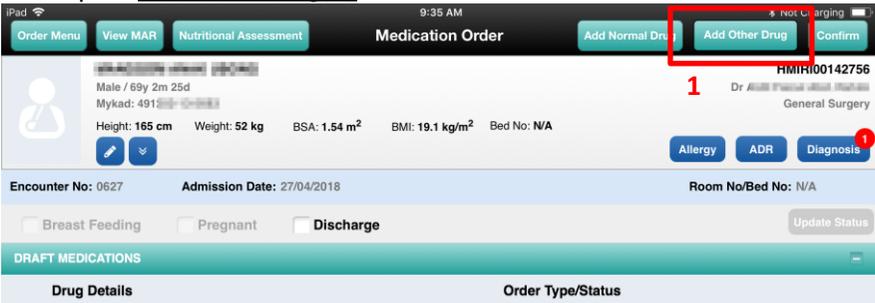
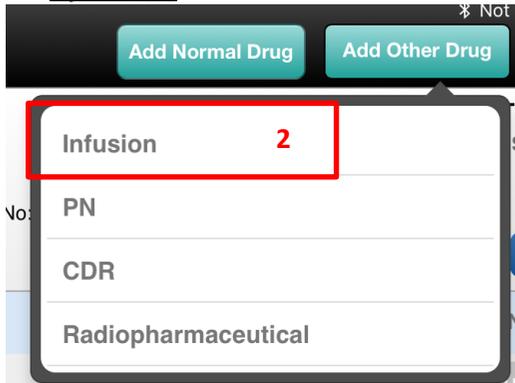
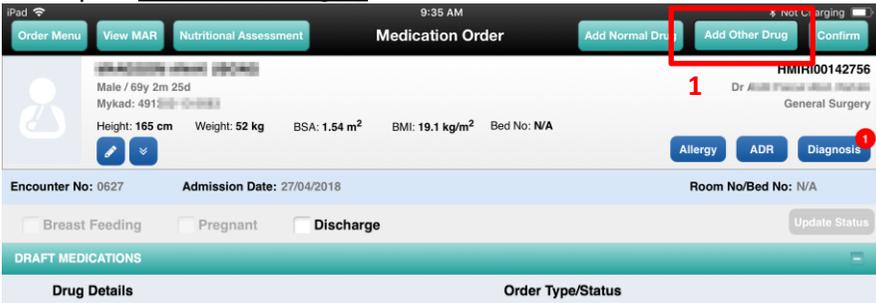
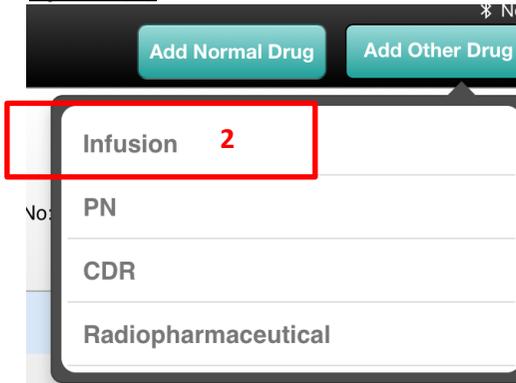
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Function Flow	Current Version 2.0	New Version 2.2															
		<p>5. This infusion details can be seen in mobile app screens as below:</p> <p>a. MAR Mobile</p>  <table border="1" data-bbox="1216 574 2179 1010"> <thead> <tr> <th data-bbox="1216 574 1657 598">Drug Name and Dosage Details</th> <th data-bbox="1657 574 1713 598">Stock</th> <th data-bbox="1713 574 1859 598">Past</th> <th data-bbox="1859 574 2033 598">Current</th> <th data-bbox="2033 574 2179 598">Future</th> </tr> </thead> <tbody> <tr> <td data-bbox="1216 614 1657 853"> <b>Non-Infusion Drug</b>  <b>Heparin Sodium 5000 IU/ml Injection (5ml)</b>                      Dosage: 5000 IU, 27/02/2019 - 06/03/2019, BD (twice daily), Subcutaneous                      Order date: 27/02/2019 01:48 AM                      Infusion Details: infusion details                      Prescriber: Dr <i>Abdul Fatah Abdul Rahman</i>                      Prescriber's Remark :                 </td> <td data-bbox="1657 614 1713 853">WS</td> <td data-bbox="1713 614 1859 853">-No schedule-</td> <td data-bbox="1859 614 2033 853">-No schedule-</td> <td data-bbox="2033 614 2179 853">27/02/2019 05:00 am 5000 IU</td> </tr> <tr> <td data-bbox="1216 853 1657 1010"> <b>Metformin HCl 500 mg Tablet</b>                      Dosage: 500 mg, 27/02/2019 - 05/03/2019, BD (twice daily), Oral                      Order date: 27/02/2019 01:48 AM                      Prescriber: Dr <i>Abdul Fatah Abdul Rahman</i>                      Prescriber's Remark :                 </td> <td data-bbox="1657 853 1713 1010"></td> <td data-bbox="1713 853 1859 1010">-No schedule-</td> <td data-bbox="1859 853 2033 1010">-No schedule-</td> <td data-bbox="2033 853 2179 1010">27/02/2019 05:00 am 500 mg</td> </tr> </tbody> </table>	Drug Name and Dosage Details	Stock	Past	Current	Future	<b>Non-Infusion Drug</b> <b>Heparin Sodium 5000 IU/ml Injection (5ml)</b> Dosage: 5000 IU, 27/02/2019 - 06/03/2019, BD (twice daily), Subcutaneous Order date: 27/02/2019 01:48 AM Infusion Details: infusion details Prescriber: Dr <i>Abdul Fatah Abdul Rahman</i> Prescriber's Remark :	WS	-No schedule-	-No schedule-	27/02/2019 05:00 am 5000 IU	<b>Metformin HCl 500 mg Tablet</b> Dosage: 500 mg, 27/02/2019 - 05/03/2019, BD (twice daily), Oral Order date: 27/02/2019 01:48 AM Prescriber: Dr <i>Abdul Fatah Abdul Rahman</i> Prescriber's Remark :		-No schedule-	-No schedule-	27/02/2019 05:00 am 500 mg
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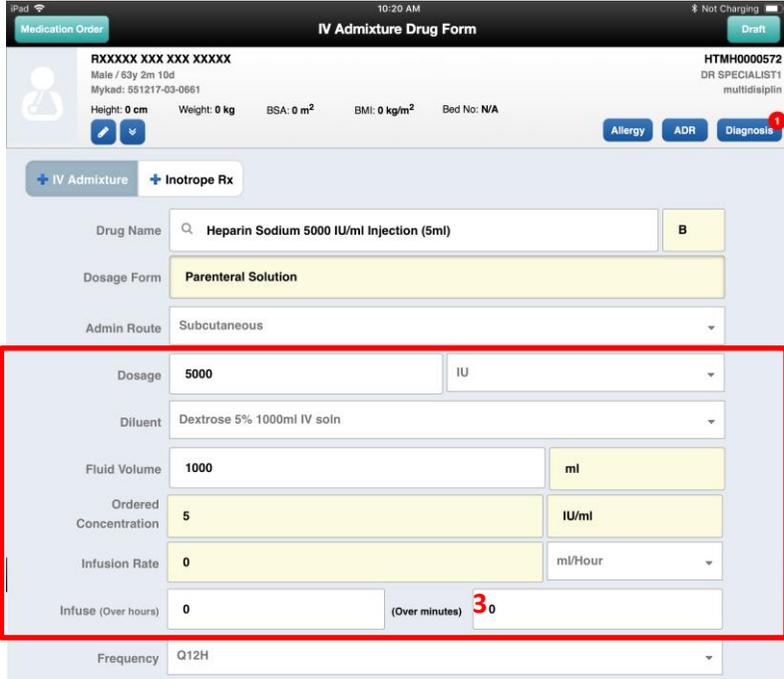
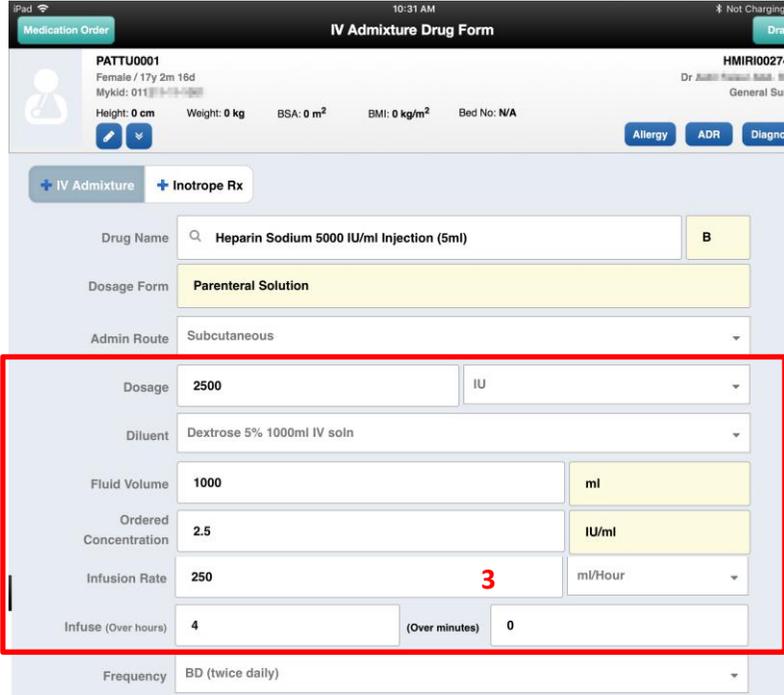
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Function Flow	Current Version 2.0	New Version 2.2
		<p>b. View MAR mobile</p>  <p>Notes:</p> <ul style="list-style-type: none"> <li>• Authorization: 'Infusion Details' is not displayed, user can refer to medication order list.</li> <li>• Order Endorsement: 'Infusion Details' is not displayed, user can refer to medication order list.</li> </ul>

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<p>2. IV Admixture: Update calculation for Dosage, Infuse Over and Infusion Rate</p>	<p>1. Tap on <u>Add Other Drug(1)</u> button in Medication Order screen.</p>  <p>2. Choose option <u>Infusion(2)</u>.</p> 	<p>1. Tap on <u>Add Orther Drug(1)</u> button in Medication Order screen.</p>  <p>2. Choose option <u>Infusion(2)</u>.</p> 

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Function Flow	Current Version 2.0	New Version 2.2
	<p>3. IV Admixture Drug Form screen will appear. Order details is displayed as below:</p>  <p>a. <u>'Infusion Rate' and 'Ordered Concentration' (3)</u> fields are not editable.</p> <p>b. Both are calculated using current formula.</p>	<p>4. IV Admixture Drug Form screen will appear. Order details is displayed as below:</p>  <p>3. <u>'Infusion Rate' and 'Ordered Concentration' (3)</u> fields are editable and calculated based on formula below:</p> <ol style="list-style-type: none"> <li>Infusion Rate = Fluid Volume / Infuse Over (Default calculation)</li> <li>If user change 'Infusion Rate' value &gt;&gt; Recalculate: 'Infuse Over' = Fluid Volume / Infusion Rate. Convert from minutes to hour accordingly.</li> <li>Ordered Concentration = Dosage / Fluid Volume (Default calculation)</li> <li>If user change 'Ordered Concentration' &gt;&gt; Recalculate: 'Dosage' = Ordered Concentration * Fluid Volume</li> </ol>