

RELEASE NOTES: 08/25/2025

Monthly Service Pack - SC.CORE.6.0 1.36.000.2507.014

Executive Summary:

These enhancements (EII#129803 & EII#131014) focus on improving the user experience when handling Client Orders and Medication Prescriptions. Here's a breakdown of what the update entails:

Layman Terminologies for Specific Medications:

The system will now present instruction text related to medications in simplified language, making it easier for clients or users who may not be familiar with medical jargon to understand their prescriptions.

Medication Name and Selected Strength:

When entering or modifying a medication in the system, the specific medication name will be displayed alongside its selected strength.

Editable 'Free-Text Sig' Popup:

During the process of inserting or modifying a medication, a popup feature will appear that allows users to input or edit 'Free-Text Sig'. "Sig" refers to the directions for use (signa). This popup enables healthcare providers to customize or clarify dosage instructions based on individual patient needs, ensuring that prescriptions can be tailored effectively.

Dose Calculator:

The release aims to introduce a weight-based dosage calculator within the SmartCare Rx application specifically for pediatric clients. This calculator dynamically determines medication dosages based on client weight and ensures they align with FDB-defined minimum and maximum thresholds. If a calculated dose surpasses the recommended maximum, a Dosage Acknowledgement popup will prompt prescriber confirmation. This enhancement improves clinical safety through configuration-driven logic, unit compatibility checks, and audit logging for any high-dose overrides.

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Abbreviation: EII - Engineering Improvement Initiatives



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TASKS LIST - 'ACTIVE CHANGE' (2)

SI. No	Task No	Summary	Module Name
140	EII # 129803	Med Sig text generation for Medication type of Orders	Layman's Term- Orders
141		Quick Orders: Diagnosis' dropdown is not enabled for Radiology Orders	Layman's Term- Rx

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140. EII # 129803 (Feature - 479507): Med Sig text generation for Medication type of Orders **{ACTIVE CHANGE}**

Note: This is an Active change. A new column, 'Med Sig', has been added to the Client Order Details grid. When the Med Sig hyperlink is clicked, a Free Text Sig pop-up will appear displaying a system-generated Layman term. This Layman's Terms Update improves clarity and consistency by aligning instructions with dosage forms (e.g., "inject," "apply"), using specific units like tablet or mL, and displaying total dose in parentheses after quantity. Prescriptions will include formulation, standardized route terminology, and a clear SIG line for pharmacy-bound scripts. This change will apply only to new medication orders.

Layman's Terms in medication orders are simplified, standardized instructions that translate complex prescribing details into plain, everyday language without losing medical accuracy.

- For example:

 - Medical/Clinical Sig: "1 tab po bid"
 Layman's Terms Sig: "Take 1 tablet by mouth twice daily"

Key Features in a Layman's Terms Update

This enhancement includes the specific improvements:

- Verb alignment with dosage form
 - Pills/Tablets → "Take"
 - Creams/Ointments → "Apply"
 - Injections → "Inject"
 - Inhalers → "Inhale"
- Specific units instead of generic measures
 - "Tablet," "Capsule," "mL," "Drop" instead of vague "dose" or abbreviations.
- Total dose in parentheses after quantity



- Example: "Take 2 tablets (500 mg total) by mouth once daily"
- 4. Standardized route terminology
 - "By mouth" instead of "PO"
 - "Under the skin" instead of "SC" or "SubQ"
- 5. Clear SIG line for pharmacy-bound scripts
 - One consistent instruction field that can be transmitted electronically without loss of meaning
- 6. Formulation details included
 - Example: "Oral suspension" vs "Liquid"
 - Example: "Extended-release tablet" vs "Tablet"

Prerequisite: Conditions to display Medications in Layman's Sig Format

A new Layman's SIG format will be generated for the medication if the Total Number of Formulations per Dose can be accurately converted.

Number of Formulations per Dose = <Dose> <Units> divided by <Strength>

Example 1: Tablet

- Dose: 500 mg
- Strength: 250 mg/tablet
- Calculation: 500 ÷ 250 = 2 tablets per dose
- Layman's SIG: "Take 2 Tablets By Mouth Once Daily"

Example 2: Oral Liquid

- Dose: 10 mg
- Strength: 5 mg/mL
- Calculation: 10 ÷ 5 = 2 mL per dose
- Layman's SIG: "Take 2 Milliliters By Mouth Every 6 Hours"

Note: If Total Number of Formulations per Dose cannot be calculated accurately, **the old Sig format will be displayed.**

The **old Sig format** will be used in the following conditions:

- Strength Description contains multiple numeric values separated by a dash (e.g., 860-160 mg).
- Strength Description contains powd (Powder)/ PwPk(Powder Packet)
- Medication name contains Allergenic extract/ Bulk.
- When Unit dropdown value comes as 'Unit'
- Strength Description contains 'Miscellaneous' (misc).
- Strength including Complex values ('x 2' or 'x 4' or 'x and any number')
- Strength Description includes "/dose" or "per dose".
- Medication comes as Pump, Inhaler, Spray (spry), Puff, Inhalation, Actuation, Mist, Kit, Flakes,
 Granules, Drop, Scoop, Packet (pack), Gel Packet (glpk), Piggyback (pgbk), Auto-Injector (atIn), Pen Injector (pnij)
- When Potency Unit and Unit is set as 'Each'.
- Strength Description containing percentage (%)
- If Strength Description: Contains non-numeric formats (e.g., range like 1-2 mg or percentages) and contains textual or symbolic values instead of clean numeric values.

Functionality 'Before' and 'After' release:

Before this release, the 'Med Sig Layman Term' generation logic was not implemented for medication orders. The following behaviors were observed:

- 1. Order Set Up screen Displayed Unit, Route, and Potency Unit fields.
- 2. Order Set Default Pop-up Displayed Unit, Route, and Potency Unit fields.



- 3. Client Orders screen (Order, Order Set, Preferences tabs) The **Dose, Unit, and Potency Unit** fields were **not auto-populated** based on the selected medication strength.
- 4. Dispense Quantity Automatically calculated using the formula: Dose × Day Supply × Number of Times (from Frequency).
- 5. Order List grid (Client Orders) Did not include a 'Med Sig' column.
- 6. Core MAR Report Only displayed 'Intervention' and 'Strength, Dose, Route, Freq' columns.
- 7. Medication Reconciliation (Current Medications) Displayed only 'Medication' and 'Strengths' columns, with no Layman's Terms present.

With this release, a new Layman's SIG format will be generated for the medication **if the Total Number of Formulations per Dose can be accurately converted**. The Layman's SIG format has been implemented in the below mentioned screens:

- 1. Order Setup
- 2. Order Sets
- 3. Client Order Screen (Order/Order set/Preference)
- 4. Client Order List Page
- Orders (My Office)
- 6. Orders/Rounding (Client)
- 7. Orders/Rounding (My Office)
- 8. Client MAR
- 9. Client MAR Expired Orders Warning Popup
- 10. Group MAR
- 11. Core MAR Report
- 12. Medication list page
- 13. Summary of Care
- 14. Transition of Care
- 15. Medication Reconciliation Document

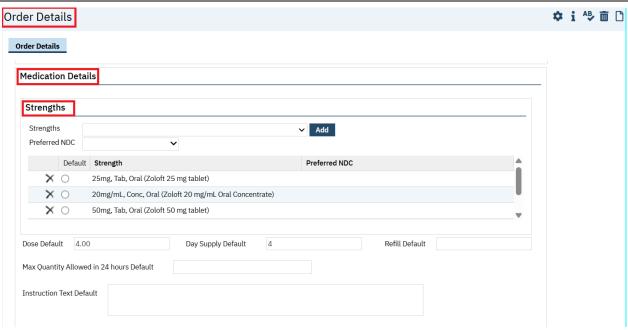
1.Order Setup

Below changes are implemented in the Order Setup screen for a medication type order:

- 'Unit' dropdown and its associated column in the grid from the 'Strengths' under 'Medication Details' have been removed.
- 'Routes' section from the 'Medication Details' section has been removed and Strength section is expanded.
- Potency Units Default' field has been removed from the Medication Details section.

Screenshot of 'Order Setup screen'



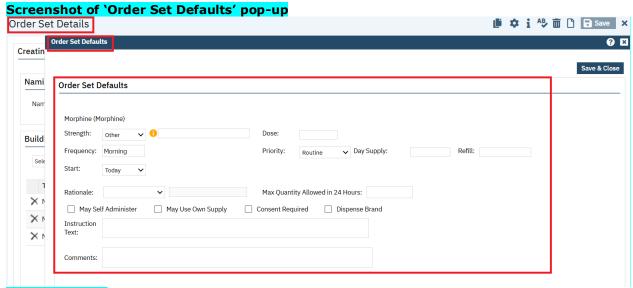


2. Order Set Defaults

Below changes are implemented in the 'Order Set Defaults' pop-up in the 'Order Sets' screen for a medication type order.

'Unit' dropdown, 'Route' dropdown and 'Potency Units' dropdown fields have been removed from the 'Order Set Defaults' pop-up

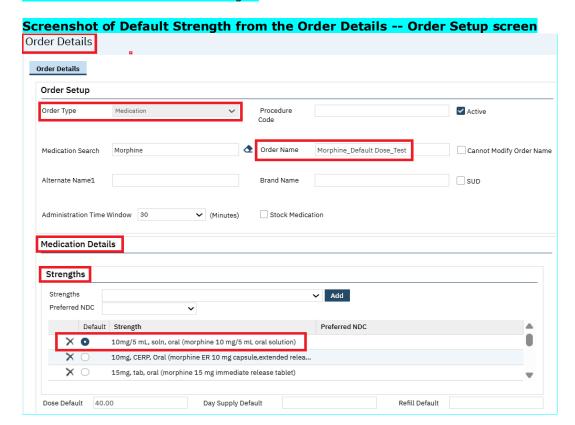




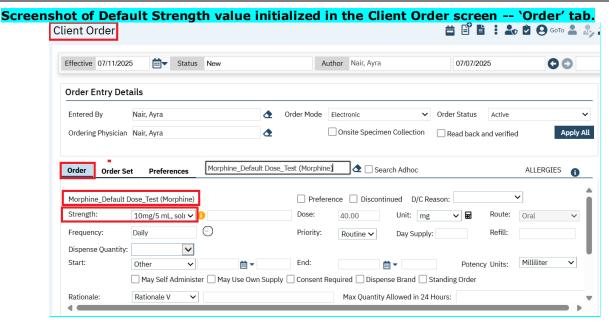
3.Client Orders

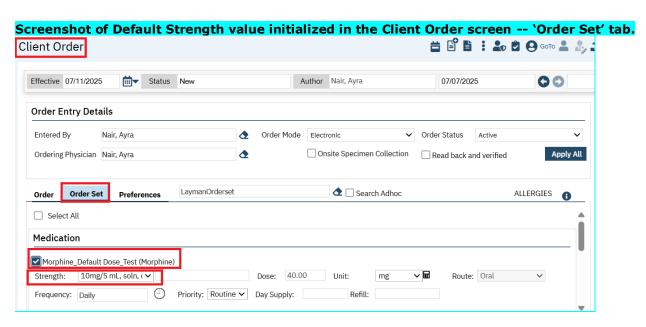
Below changes are implemented in the 'Order', 'Order Set' and 'Preferences' tabs for a medication type order in the 'Client Orders' screen.

- Strength':
 - When the user selects a 'Strength', the 'Dose', 'Unit' and 'Potency Unit' field values will be initialized based on the 'Strength' selection.
 - > If the order has a 'Default Strength' value setup via 'Order Set Up' screen, then this default value will be initialized as the strength.

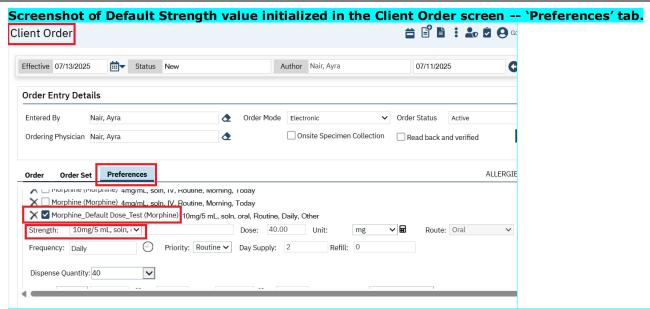




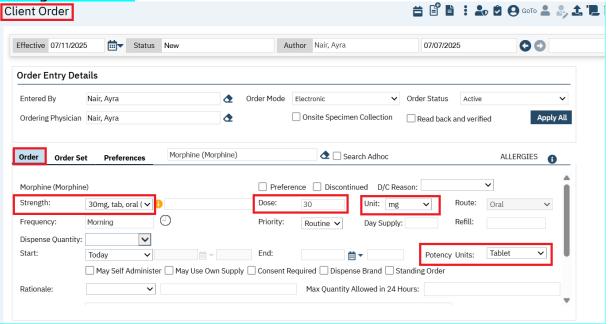






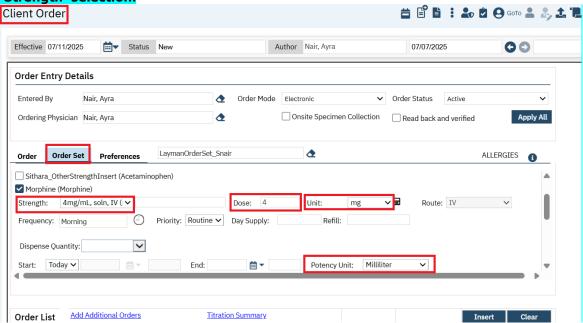


Screenshot of 'Order' tab displaying the 'Dose', 'Unit' and 'Potency Unit' values initialized on the 'Strength' selection.

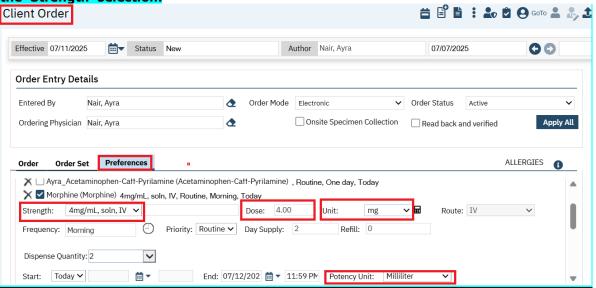




Screenshot of 'Order Set' tab displaying the 'Dose', 'Unit' and 'Potency Unit' values initialized on the 'Strength' selection.



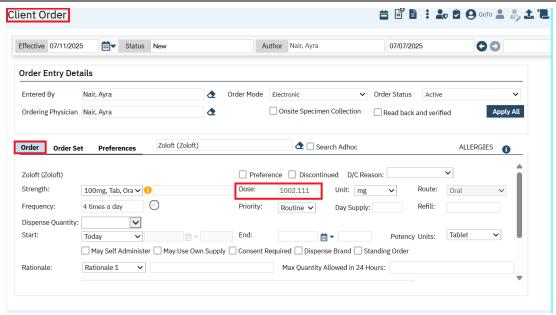
Screenshot of 'Preferences' tab displaying the 'Dose', 'Unit' and 'Potency Unit' values initialized on the 'Strength' selection.



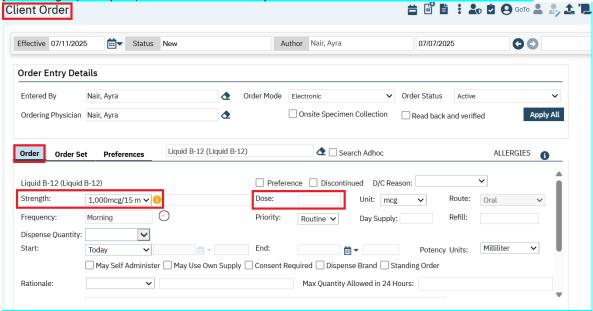
'Dose':

The value for 'Dose' will be initialized based on the strength selection and it will allow a total of 8 values including decimal.
Ex: 1002.111





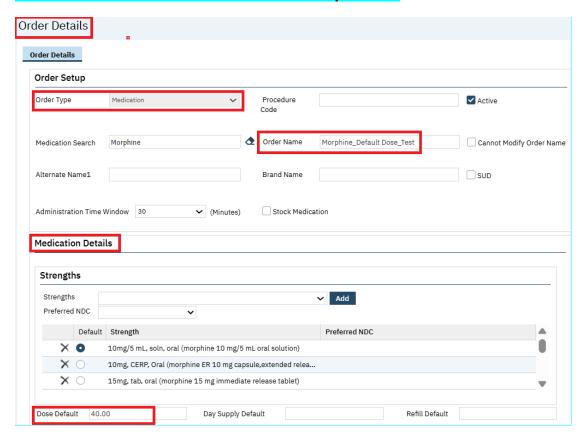
Dose will be initialized as blank for any medications which cannot initialize the value (strength of percentages, complex, non-numeric values) for it and user will be able to edit this field.



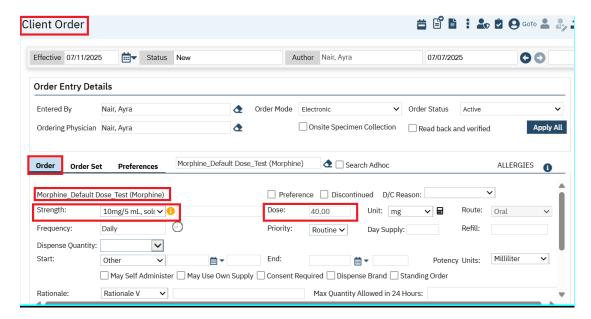
When a default value is set for 'Dose' in the 'Order Setup' screen, the same will be initialized in the 'Dose' field of the Client Order screen.



Screenshot of Default 'Dose' set in 'Order Set Up' screen.

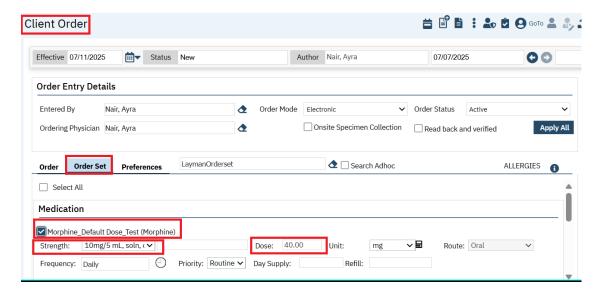


Screenshot of Default 'Dose' initialized and displaying in 'Order' tab of 'Client Order' screen.

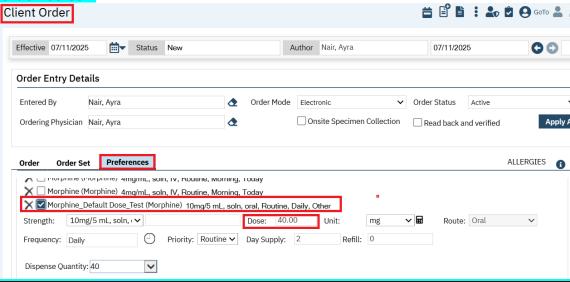




Screenshot of Default 'Dose' initialized and displaying in 'Order Set' tab of 'Client Order' screen.

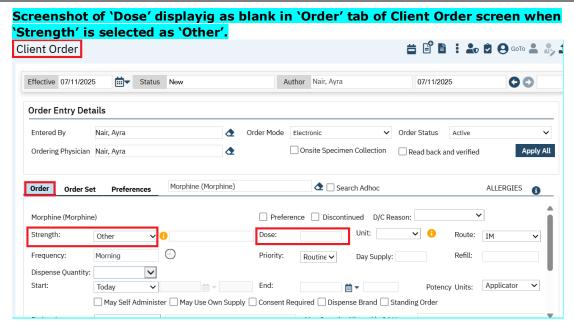


Screenshot of default 'Dose' initialized and displaying in 'Preferences' tab of 'Client Order' screen.

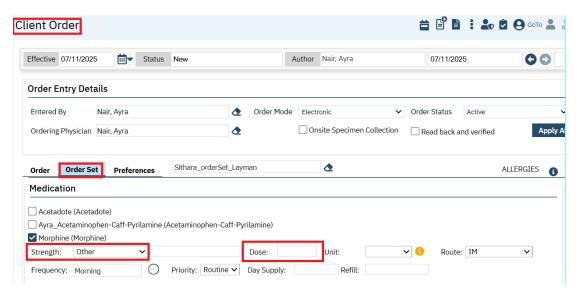


When strength is selected as 'Other', then 'Dose' will be displayed as blank and user will be able to edit the field.



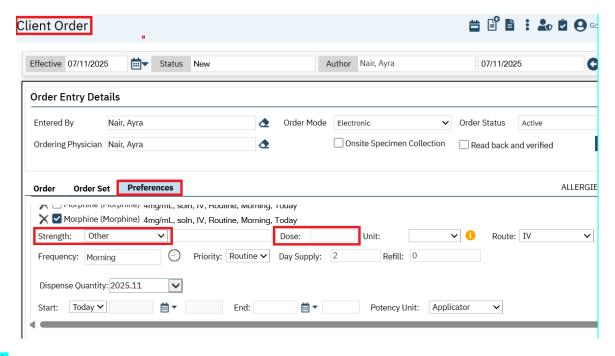


Screenshot of 'Dose' displaying as blank in 'Order Set' tab of Client Order screen when 'Strength' is selected as 'Other'.





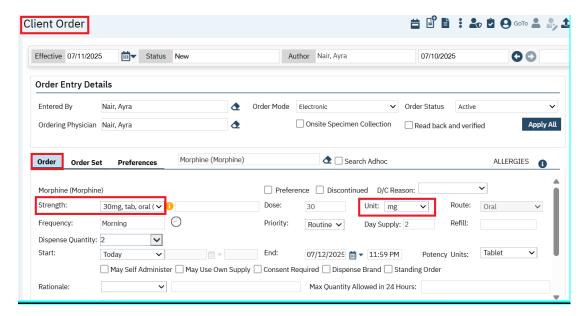
Screenshot of 'Dose' displaying as blank in 'Preferences' tab of Client Order screen when 'Strength' is selected as 'Other'.



'Unit':

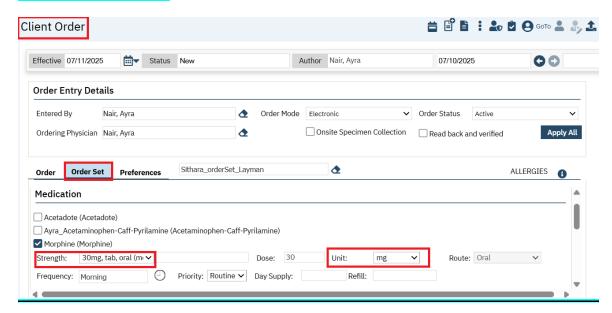
'Unit' will be initialized based on the 'Strength' selection.

Screenshot of 'Unit' displaying based on the 'Strength' selection in the 'Order' tab of Client Order screen.

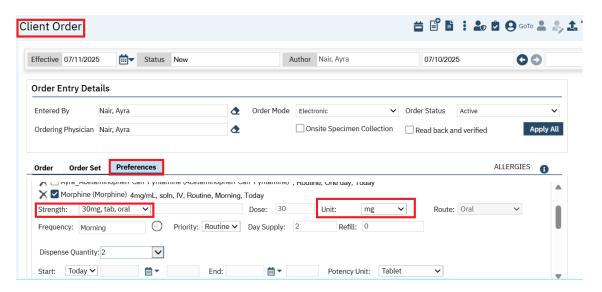




Screenshot of 'Unit' displaying based on the 'Strength' selection in the 'Order Set' tab of Client Order screen.

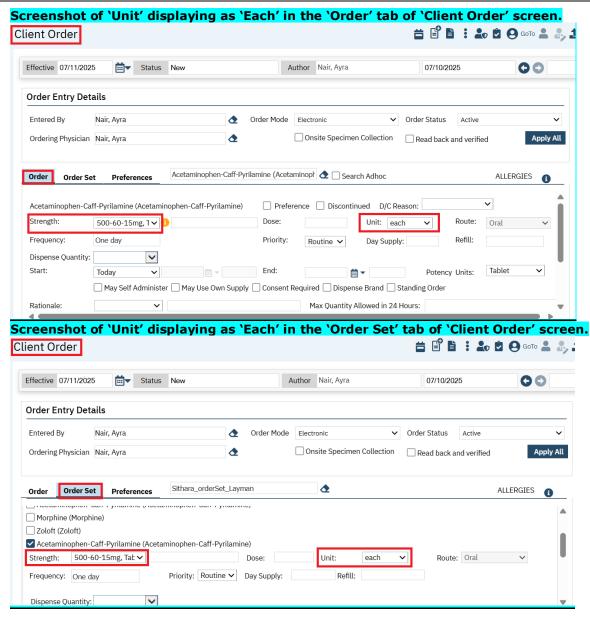


Screenshot of 'Unit' displaying based on the 'Strength' selection in the 'Preferences' tab of Client Order screen.

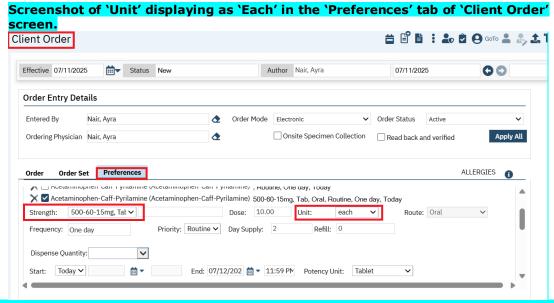


For any medication which cannot initialize (percentages, complex, non-numeric values) 'Unit' will then initialize with the value 'each'.



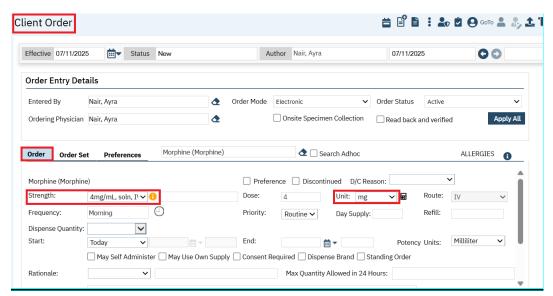






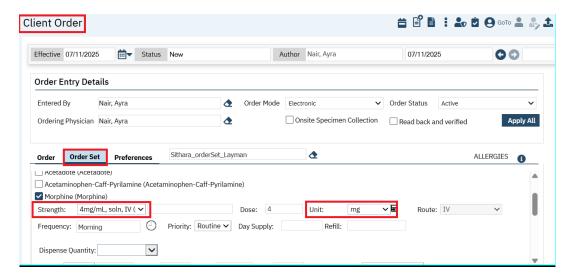
'Unit' will always populate as 'mg' for any medication that are in strength format for liquids such as 'mg/mL', '10 mg/mL', '5 mg/5mL'.

Screenshot of 'Unit' displaying as 'mg' in the 'Order' tab of 'Client Order' screen.

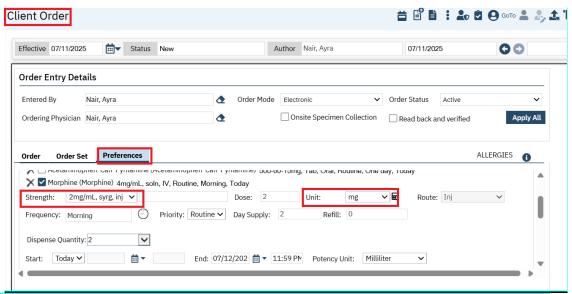




Screenshot of 'Unit' displaying as 'mg' in the 'Order Set' tab of 'Client Order' screen.



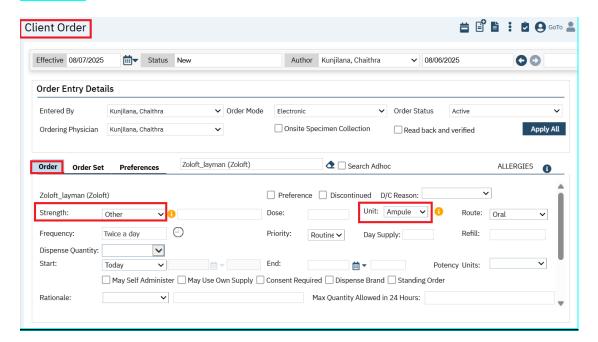
Screenshot of 'Unit' displaying as 'mg' in the 'Preferences' tab of 'Client Order' screen.



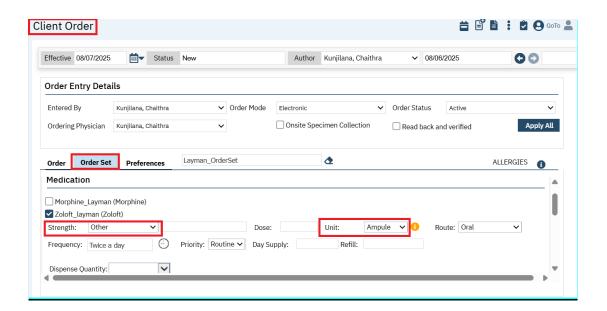
When strength is set to 'Other', 'Unit' will be defaulted to the first option in the dropdown.



Screenshot of 'Unit' displaying in the 'Order' tab of 'Client Order' screen when strength is 'Other'.

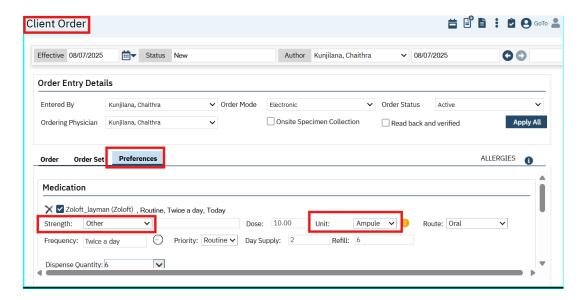


Screenshot of 'Unit' displaying in the 'Order Set' tab of 'Client Order' screen when strength is 'Other'.





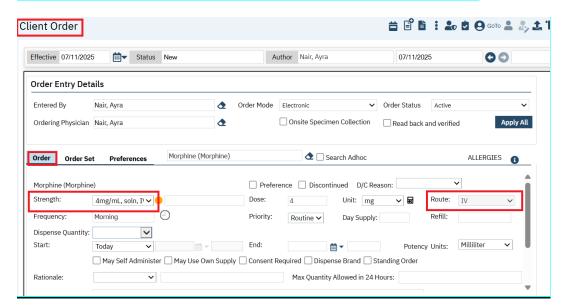
Screenshot of 'Unit' displaying in the 'Preferences' tab of 'Client Order' screen when strength is 'Other'.



'Route':

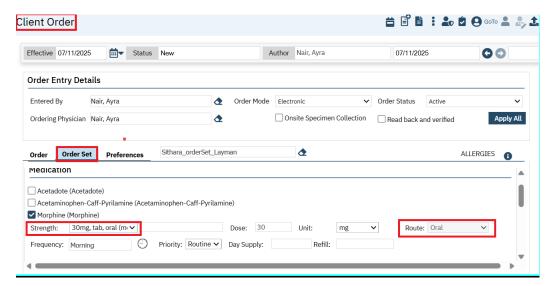
> 'Route' will be initialized based on the 'Strength' selection and it will be a disabled field.

Screenshot of 'Route' field in the 'Order' tab of 'Client Order' screen.

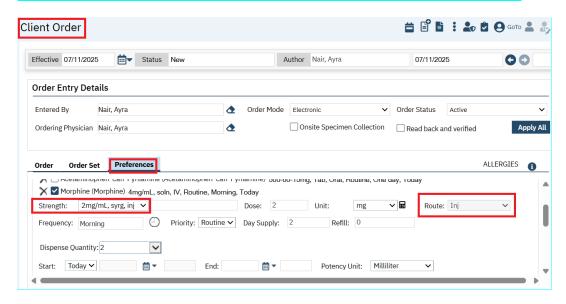




Screenshot of 'Route' field in the 'Order Set' tab of 'Client Order' screen.



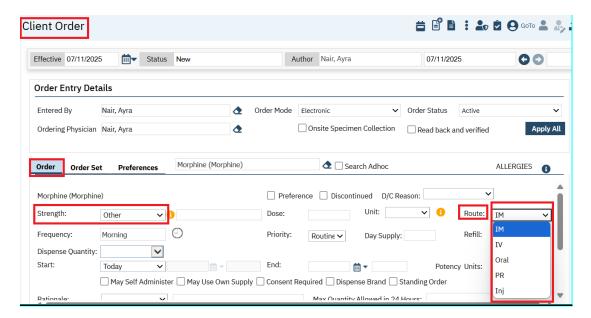
Screenshot of 'Route' field in the 'Preferences' tab of 'Client Order' screen.



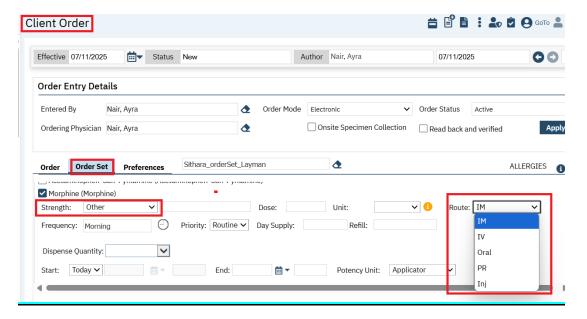
'Route' field will be enabled and display all the available values in the dropdown when 'Strength' is selected as 'Other' for the medication.



Screenshot of 'Route' field in the 'Order' tab of 'Client Order' screen when Strength is selected as 'Other'.

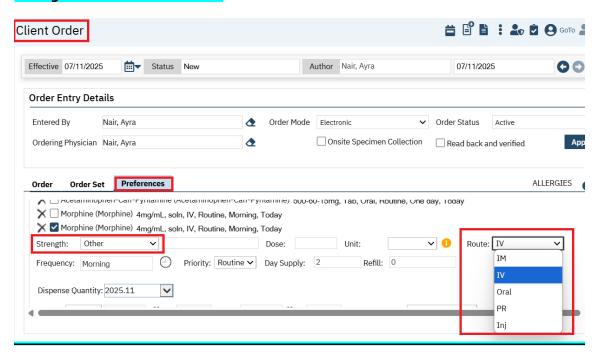


Screenshot of 'Route' field in the 'Order Set' tab of 'Client Order' screen when Strength is selected as 'Other'.





Screenshot of 'Route' field in the 'Preferences' tab of 'Client Order' screen when Strength is selected as 'Other'.



'Potency Unit':

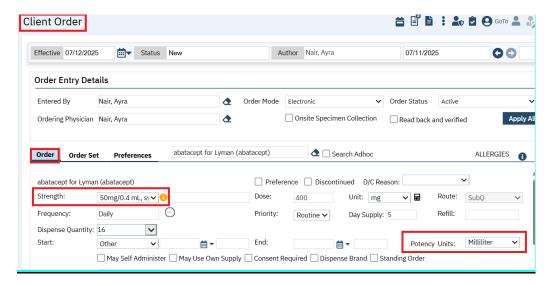
> 'Potency Unit' will be initialized based on the 'Strength' selection.

Example: Abatacept 50mg/0.4mL – Potency Unit will initialize as Millilitre.

- For any medication which cannot initialize (percentages, complex, non-numeric values) 'Potency Units' will then initialize blank.
- For any Medications that are in Strength format for liquids, such as 'mg/mL', '10mg/mL, 5mg/5mL, then the 'Potency Unit' will always populate as 'Millilitre'.

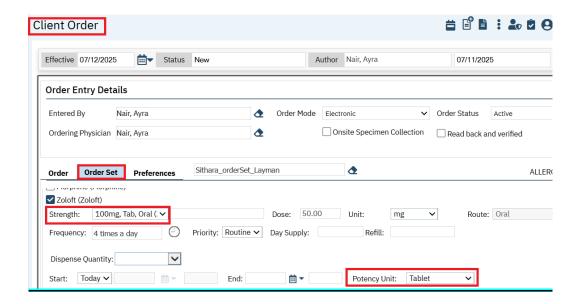


Screenshot of 'Potency Unit' displaying in the 'Order' tab of 'Client Order' screen



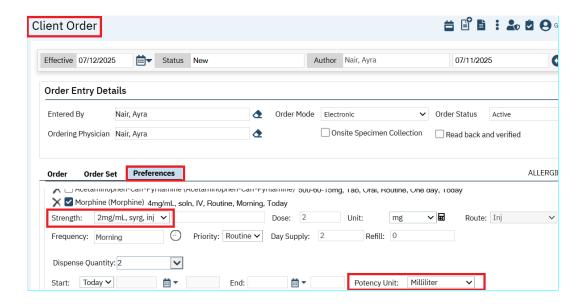
Screenshot of 'Potency Unit' displaying in the 'Order Set' tab of 'Client Order' screen.

Example: Zoloft 100mg, Tab – Potency Unit will initialize as Tablet.



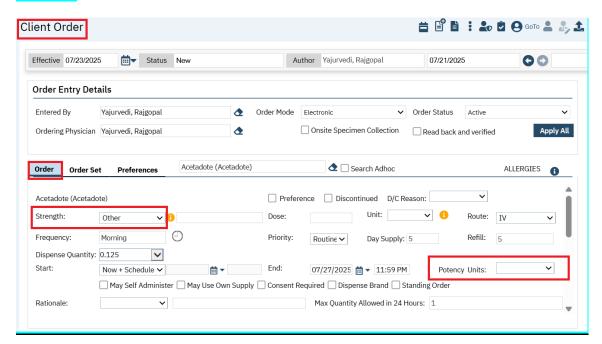


Screenshot of 'Potency Unit' displaying in the 'Preferences' tab of 'Client Orders' screen



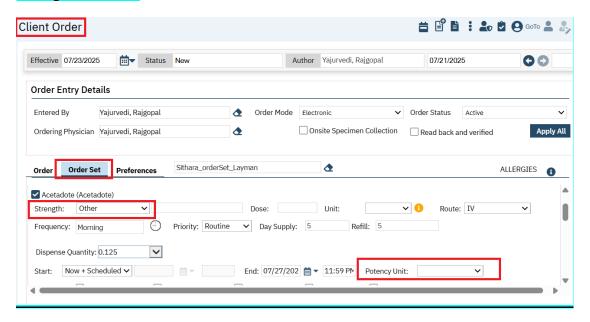
> 'Potency Unit' will be initialized as **blank** when strength is selected as 'Other' and all the available Potency Unit values will be displayed in the dropdown.

Screenshot of 'Potency Units' in the 'Order' tab of 'Client Order' screen when Strength = 'Other'

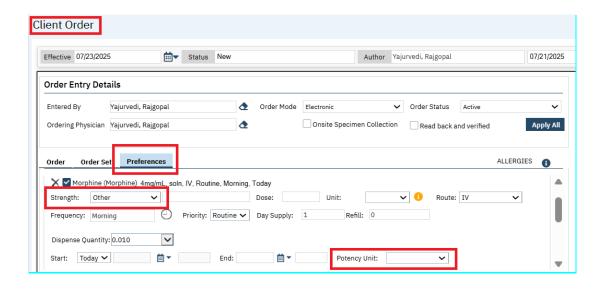




Screenshot of 'Potency Units' in the 'Order Set' tab of 'Client Orders' screen when Strength = 'Other'



Screenshot of 'Potency Units' in the 'Preferences' tab of 'Client Orders' screen when Strength = 'Other'

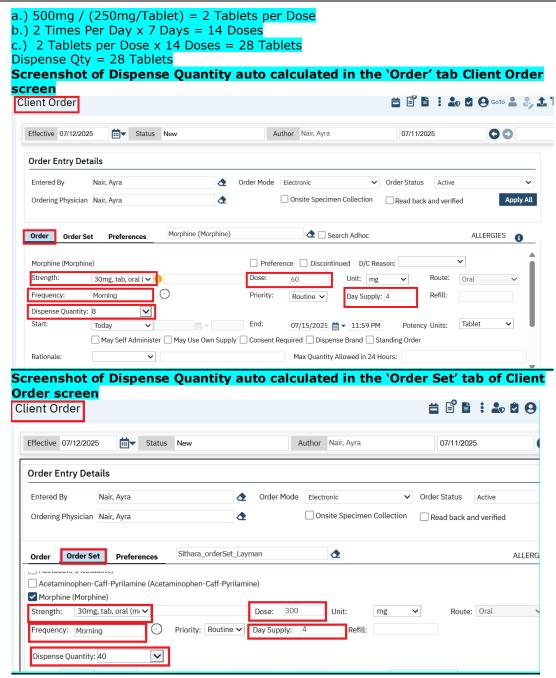


4. Dispense Quantity':

- The 'Dispense Quantity' will be automatically calculated for each medication using the below formula:
 - Basic Formula (If the Medication is given in discrete units, such as Tablets or Capsules, mg/mL, gram/mL, mcg/mL)

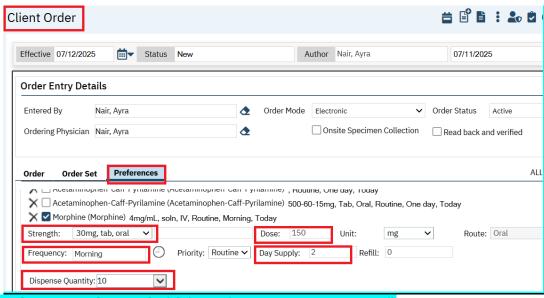
Dispense Quantity = (Dose+ Unit / Strength) x Times Per Day x Days Example: Dose = 500mg; Strength = 250mg; Frequency = BID (2 Times Per Day); Days = 7 Days





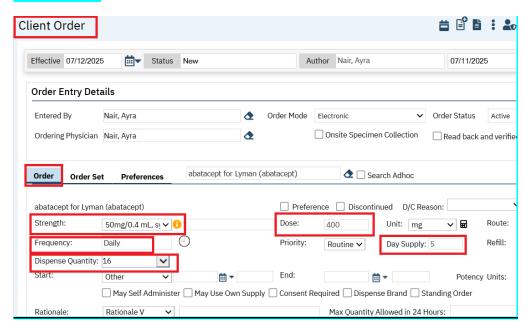


Screenshot of Dispense Quantity auto calculated in the 'Preferences' tab of Client Order screen



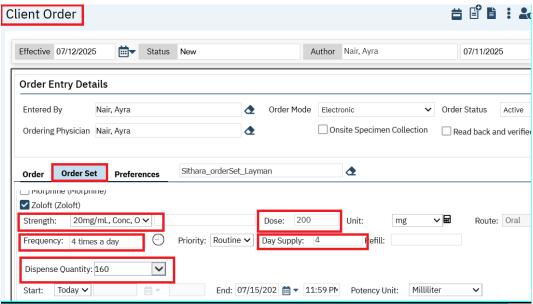
2. Volume-Based Formula (If the Medication is given as a Liquid)

Screenshot of Dispense Quantity auto calculated in the 'Order' tab of Client Order screen

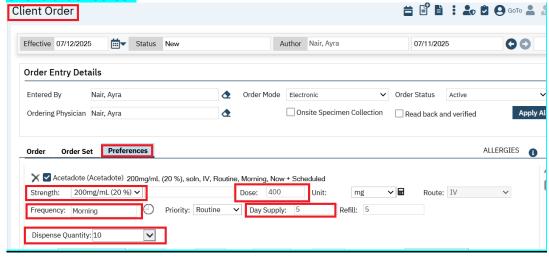




Screenshot of Dispense Quantity auto calculated in the 'Order Set' tab of Client Order screen



Screenshot of Dispense Quantity auto calculated in the 'Preferences' tab of Client Order screen



- If the value is less than 1 in the Dispense Quantity, a leading zero will display before the decimal and it will display maximum of 3 digits after the decimal and will truncate all other digits. (Example: 0.255).
- When there is a number 1 or higher before the decimal, then it will display 2 digits after decimal and will truncate all other digits. (Example: 4.55)
- Trailing zeroes will not be displayed for the Dispense Quantity field (Example A: 40.5) (Example B: 0.55).
- For any medications that cannot use the Basic Formula or Volume-Based Formula such as percentages (e.g., 1%), non-numeric values (e.g., square inches), or complex dosages (e.g., 500 mg-200 mg-100 mg) the 'Dispense Quantity' field will be left blank, and the user will have to manually calculate and enter the correct quantity.
- The Dispense Quantity will initialize as blank for any Medications where Default Unit = 'Unit' or 'Unit/x' or 'Each' or 'Blank'.

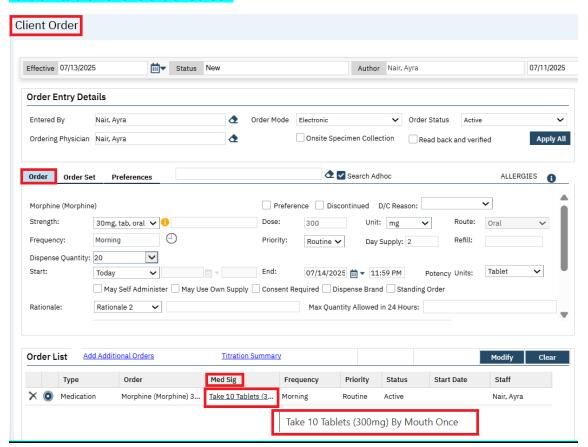


The Dispense Quantity will initialize as blank for any Medications where Strength Unit comes as these values = unit/mL, unit/gram, unit, BAU/mL, unit/mg, mPas, BAU, anti X-a Unit/mL, mcg/5 mL - 4%, (+/-) unit, mcg/3 mL - 4%, mg/gram (scoop), mg/g, centistokes, TCI50/0.5mL, kcal/100 gram, mg/spray, mg iodine/mL, gram, mcg/actuation, square mm, indx reactivity, kcal/52 mg, unit/mg (USP, mEq/1000 mL, mEq/1150 Mm, %, cm 2, unit/mL (50-50), unit/mL (75-25), unit/mL (70-30), cm, mg iron/mL, kcal/18 gram, % (w/w), mm, % (84.5-98.5%), microL, kcal/13 gram, % (w/v), % to 68%, PPM, gram/240 mL, mcg/dose, gauge, Fr, SPF, SQ inch, gram/120 mL, mcg (0.025%), Markers, gram/31 gram, square inch, mEq/L (= K+), 16, Bndg, Top, SQ-HDM, 10.3, misc, misc, mg/mL, (1%), mg/12.5 mL, 1 x 10exp8 cell, 10exp6 cell/Ml, billion cell, Million Cell,cell/5 drop, cell/5 drops, cell/6 gram, cell/drop, cell/gram, cell-75 mg

5. 'Free Text Sig' in Client Orders Screen:

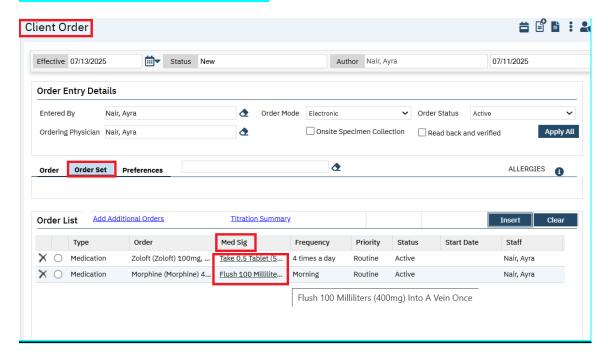
'Med Sig Column': This column is newly added and displays the calculated instruction text, which can be either the 'Layman's Terms' version or the 'Old Sig' version, with an ellipsis added at the end to indicate that the instruction continues. On mouse hover, the Med Sig text is displayed

Screenshot of 'Med Sig' column displaying for the 'Layman's Terms' version in the 'Order' tab of Client Order screen

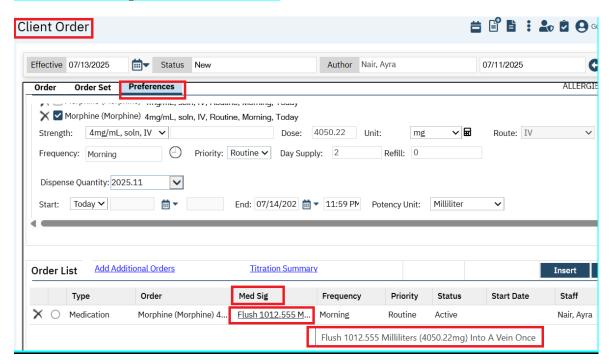




Screenshot of 'Med Sig' column displaying for the 'Layman's Terms' version in the 'Order Set' tab of Client Order screen

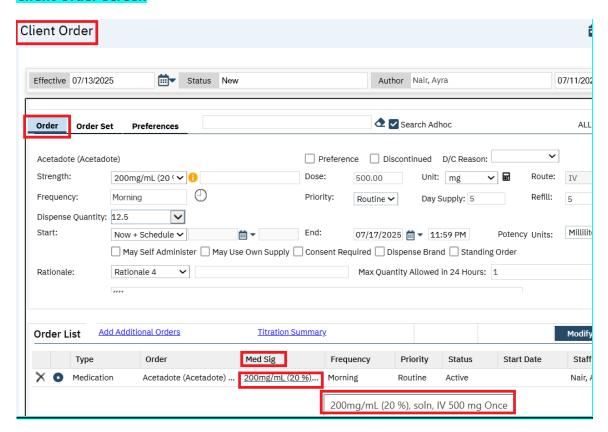


Screenshot of 'Med Sig' column displaying for the 'Layman's Terms' version in the 'Preferences' tab_of Client Order screen

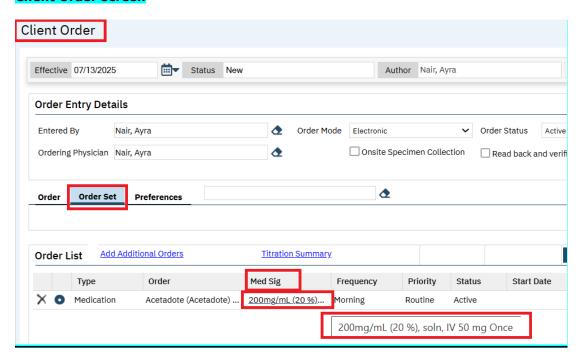




Screenshot of 'Med Sig' column displaying for the 'Old Sig' version in the 'Order' tab of Client Order screen

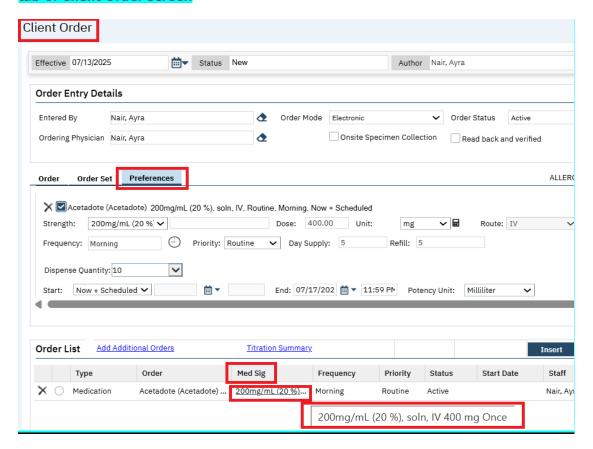


Screenshot of 'Med Sig' column displaying the 'Old Sig' version in the 'Order Set' tab of Client Order screen



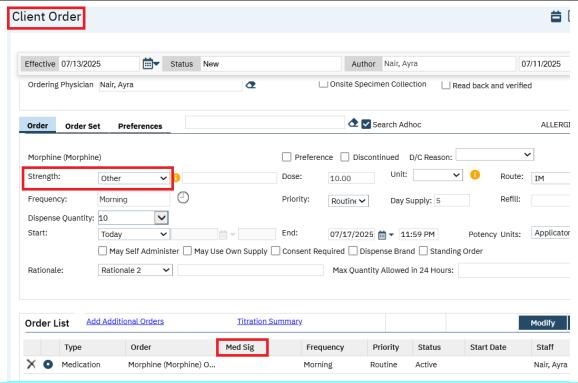


Screenshot of 'Med Sig' column displaying for the 'Old Sig' version in the 'Preferences' tab of Client Order screen



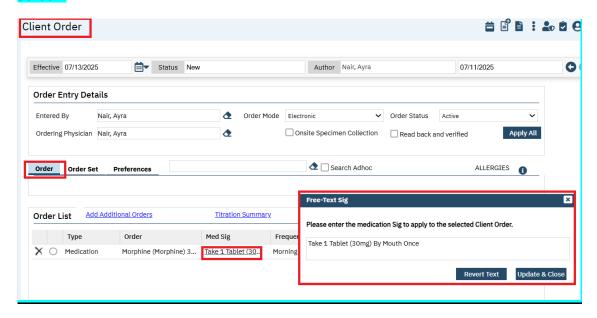
When 'Strength' is selected as 'Other', the 'Med Sig' column will not display any instruction text, it remains blank.





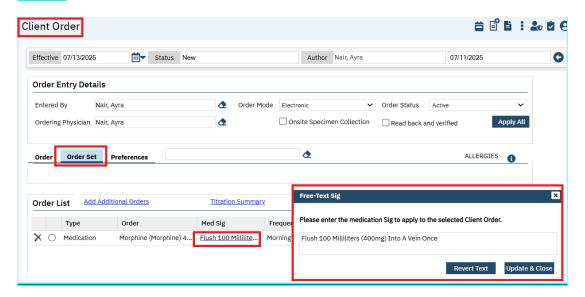
> **'Free Text Sig Pop-Up':** When the instruction text hyperlink in the 'Med Sig' column is clicked, a pop-up will appear with the header 'Free-Text Sig'. This pop up will display the calculated instruction text (either Layman's Terms or Old Sig version).

Screenshot of 'Free Text Sig Pop-Up' displaying in the 'Order' tab of Client Order screen.

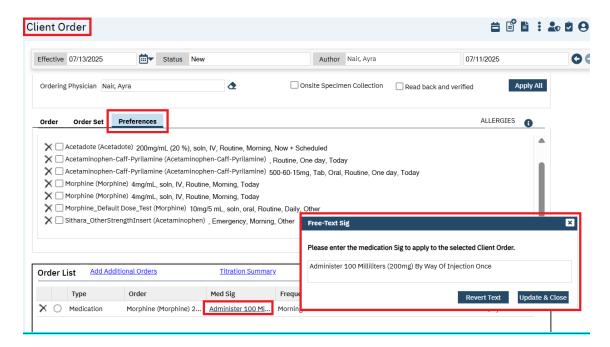




Screenshot of 'Free Text Sig' Pop-Up displaying in the 'Order Set' tab of Client Order screen.



Screenshot of 'Free Text Sig' Pop-Up displaying in the 'Preferences' tab of Client Order screen.



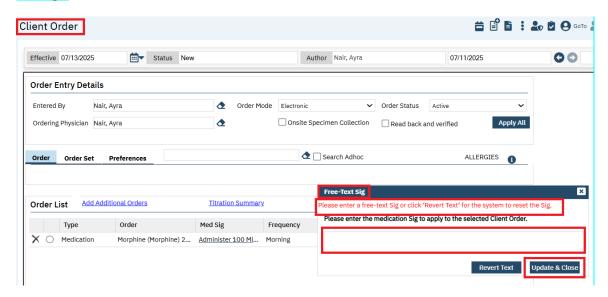
- The 'Free-Text Sig' Pop-Up: This is an editable textbox which accepts up to 250 characters, and the textbox will expand vertically as user enters the text.
- "Please enter the medication Sig to apply to the selected Client Order." header will be displayed in Free-Text Sig Pop-Up
- For re-orders or change orders, the 'Med Sig' field initializes with the most recently saved med sig from the previously signed client order.
- The Free Text Sig pop-up displays two buttons: 'Revert Text' and 'Update & Close'.



- When 'Revert Text' button is clicked, it will revert the updated Sig and display the system generated Sig (either Layman's terms or old sig version).
- When 'Update & Close' button is clicked, then it will update to the instruction text entered and then closes the pop-up. The updated instruction text will then display in the 'Med Sig' column in the order grid.

When 'Update & Close' button is clicked but the textbox is blank, the below validation message will be displayed.

Validation Message: "Please enter a free-text Sig or click 'Revert Text' for the system to reset the Sig."



Client Order PDF

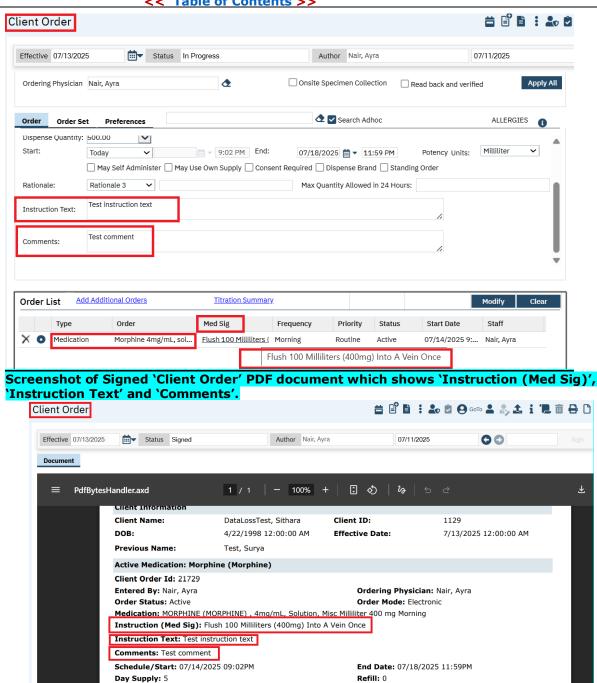
The 'Instruction (Med Sig)' label will be displayed on the signed Client Order PDF document under the 'Medication' field which will hold the Med Sig information (Either Layman's version or Old Sig version). Below is the format for the Med Sig Instruction Text (For Layman's Terms).

(Adverb) (Dose + Unit divided by Strength) (Formulation) (Dose + Unit)) (Route) (Frequency) ((Day of the week, if applicable, with comma separators))

- The field/label 'Instruction Text' has been repositioned and appended under the field 'Instruction (Med Sig)' which will display the text entered in the 'Instruction Text' textbox for an order. If the 'Instruction Text' is blank, then the label 'Instruction Text' will be hidden from the signed Client Order PDF document.
- The field/label 'Comments' has been repositioned and appended under the field 'Instruction Text' which will hold the Comments entered for an order. If the comment textbox is blank and the 'Comments' label will be hidden from the Client Order signed PDF document.

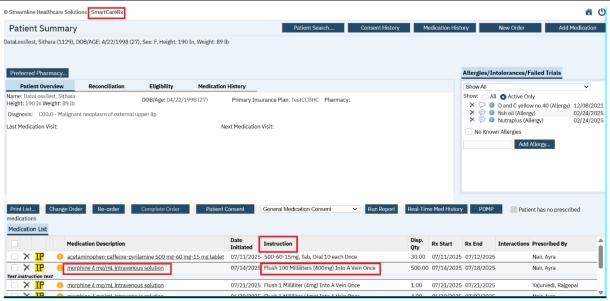
Screenshot of 'Client Order' screen where it shows 'Med Sig', 'Instruction Text' and 'Comments'





The signed order then will be displayed in the 'Medication Management (Rx)' screen under the 'Medication List' grid and display the proper 'Med Sig' text in the 'Instruction' column and it will be read-only text.





Client Order list page:

 Client orders created from the Client Order Details page will reflect in the Client Orders list page. On mouse hover of medication name, medication details will be displayed

The below format is followed to display the Medication details on mouse hover:

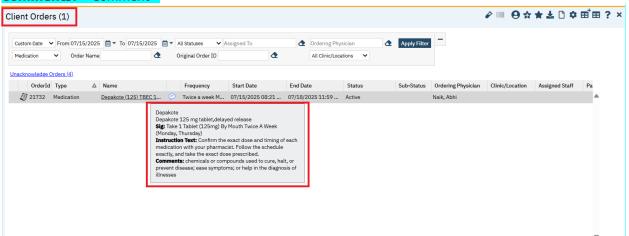
<Order Display Name>

<Medication Description>

Sig: <Med Sig>

Instruction Text: <Instruction Text>

Comments: <Comment>



- Most recently updated Med Sig from the Client Order Details will be displayed for the Sig label.
- On mouse hover, if the user has not entered any Instruction Text or Comment, the corresponding labels ("Instruction Text" and "Comment") will be hidden.
- Old Sig format will be generated for the medications with non-numeric format (e.g. percentage, range).
- If the Instruction Text or Comment content is too long to fit in a single line within the hover box, the text will wrap onto the next line(s).



Orders (My Office) list page:

Orders created from the Client Order Details page will reflect in the Orders (My Office) list page.

Below details will be displayed on mouse hover of Order name.

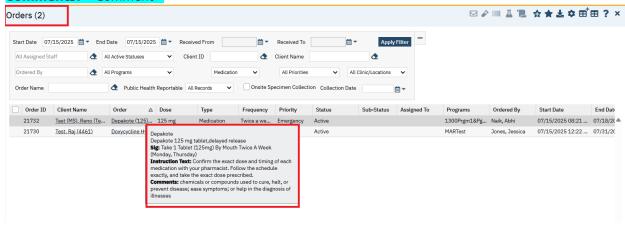
Format:

<Order Display Name> <Medication Description>

Sig: <Med Sig>

Instruction Text: <Instruction Text>

Comments: <Comment>



- Most recently updated Med Sig from the Client Order Details will be displayed for the Sig label.
- On mouse hover, if the user has not entered any Instruction Text or Comment, the corresponding labels ("Instruction Text" and "Comment") will be hidden.
- Old Sig format will be generated for the medications with non-numeric format (e.g. percentage, range).
- If the Instruction Text or Comment content is too long to fit in a single line within the hover box, the text will wrap onto the next line(s).

Orders/Rounding (Client) list page:

 Client order created from the Client Order Details page will reflect in the Orders/Rounding (Client) list page on mouse hover of Order name.

Below details will be displayed on mouse hover of Order name.

Format:

<Order Display Name>

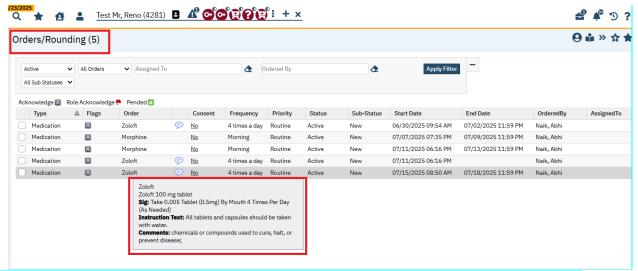
<Medication Description>

Sig: <Med Sig>

Instruction Text: <Instruction Text>

Comments: <Comment>





- Most recently updated Med Sig from the Client Order Details will be displayed for the Sig label.
- On mouse hover, if the user has not entered any Instruction Text or Comment, the corresponding labels ("Instruction Text" and "Comment") will be hidden.
- Old Sig format will be generated for the medications with non-numeric format (e.g. percentage, range).
- If the Instruction Text or Comment content is too long to fit in a single line within the hover box, the text will wrap onto the next line(s).

Orders/Rounding (My Office) list page:

• Client order created from the Client Order Details page will reflect in the Orders/Rounding (My Office) list page on mouse hover of Order name.

Below details will be displayed on mouse hover of Order name.

Format:

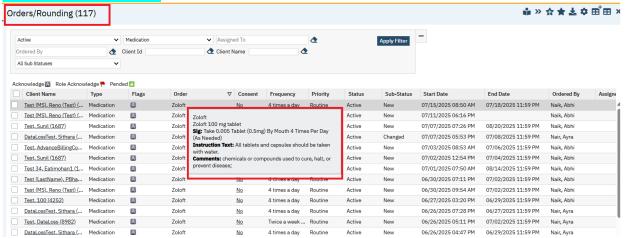
<Order Display Name>

<Medication Description>

Sig: <Med Sig>

Instruction Text: <Instruction Text>

Comments: <Comment>



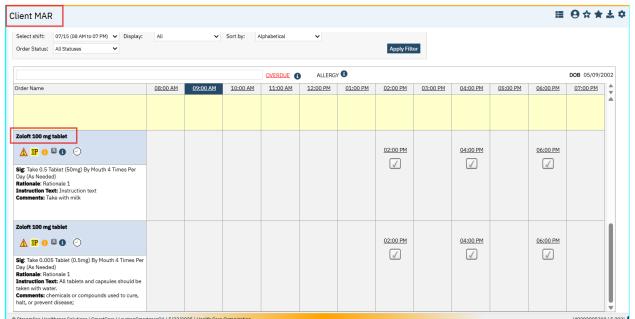
Most recently updated Med Sig from the Client Order Details will be displayed for the Sig label.



- On mouse hover, if the user has not entered any Instruction Text or Comment, the corresponding labels ("Instruction Text" and "Comment") will be hidden.
- Old Sig format will be generated for the medications with non-numeric format (e.g. percentage, range).
- If the Instruction Text or Comment content is too long to fit in a single line within the hover box, the text will wrap onto the next line(s).

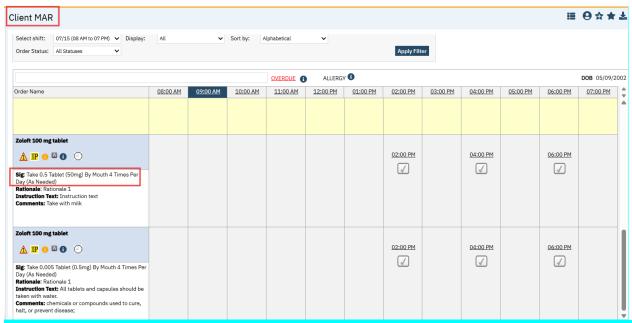
Client MAR

Medication names will be displayed along with the potency unit.
 ex: Zoloft 100 mg tablet

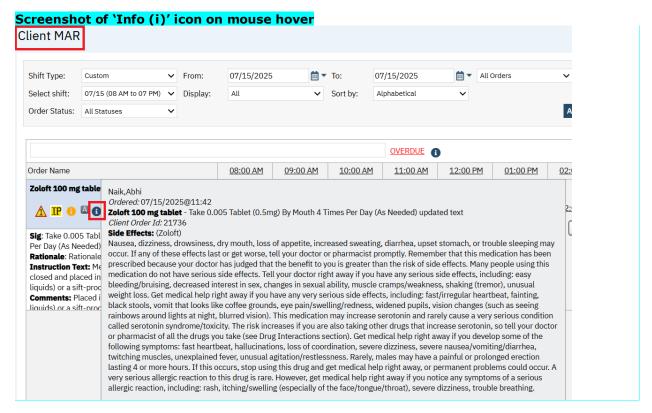


• Sig – Most recently updated Med Sig from the Client Order details will be displayed for the Sig label.





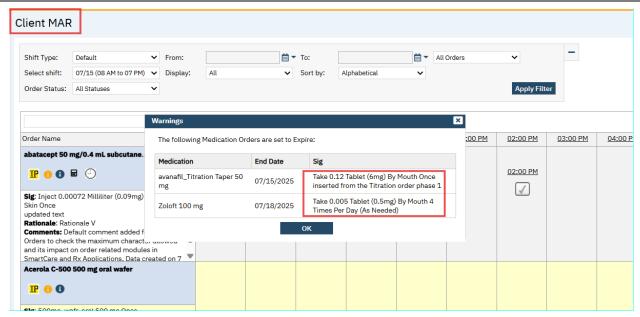
• **Info icon hover** – On mouse hover on the info icon, most recently updated Med Sig from the Client Order Details will be displayed along with the other existing fields.



Client MAR - Expired Orders Warning Pop-up

Most recently updated Med Sig from the Client Order for the respective orders will be displayed in the Expired Orders Warning pop-up – Sig column





Group MAR

Orders created from the Client Order Details page will reflect in the Group MAR list page on mouse hover of Medication name.

The below format is followed to display the Medication details on mouse hover along with the existing fields (Example: Rationale, Side Effects)

Rationale, Side Effects)
 Order Display Name>

<Medication Description>

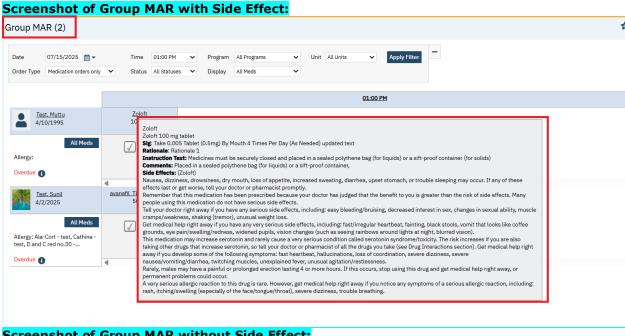
Sig: <Med Sig>

Instruction Text: <Instruction Text>

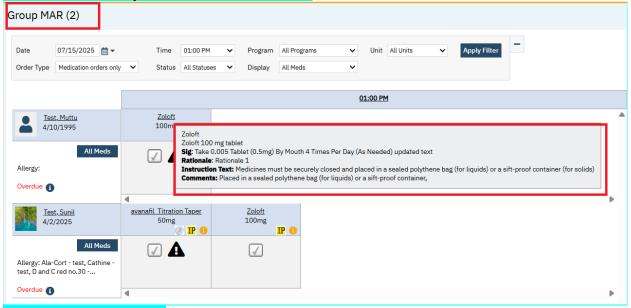
Comments: < Comment>

- Most recently updated Med Sig from the Client Order details will be displayed for the Sig label.
- On mouse hover, if the user has not entered any Instruction Text or Comment, the corresponding labels ("Instruction Text" and "Comment") will be hidden.
- Old Sig format will be generated for the medications with non-numeric format (e.g. percentage, range).
- If the Instruction Text or Comment content is too long to fit in a single line within the hover box, the text will wrap onto the next line(s).





Screenshot of Group MAR without Side Effect:

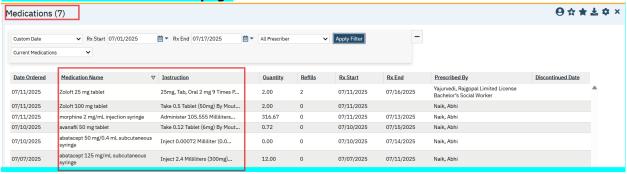


Medications List Page

- The Medication Name column will display the Medication name along with the potency unit.
- 'Instruction' column will display the most recent Med Sig text updated for the respective client order.

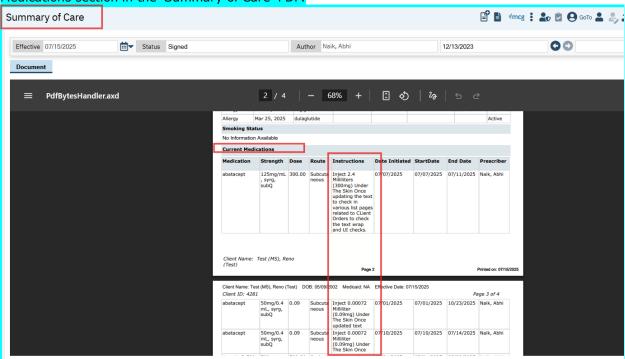


Screenshot of Medication list page



Summary of Care

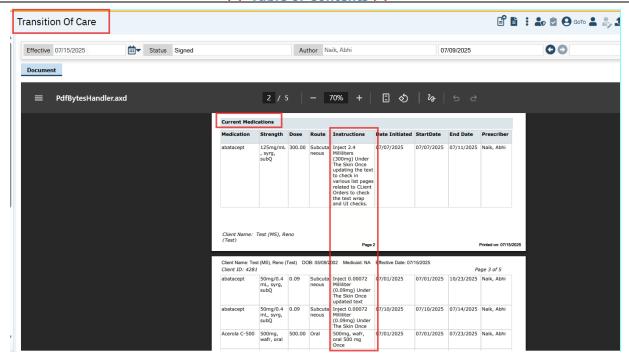
Most recently updated Med Sig from the respective Client Order will reflect in the Instructions column of Current Medications section in the 'Summary of Care' PDF.



Transition of Care

Most recently updated Med Sig from the respective Client Order will reflect in the Instructions column of Current Medications section in the 'Transition of Care' PDF.

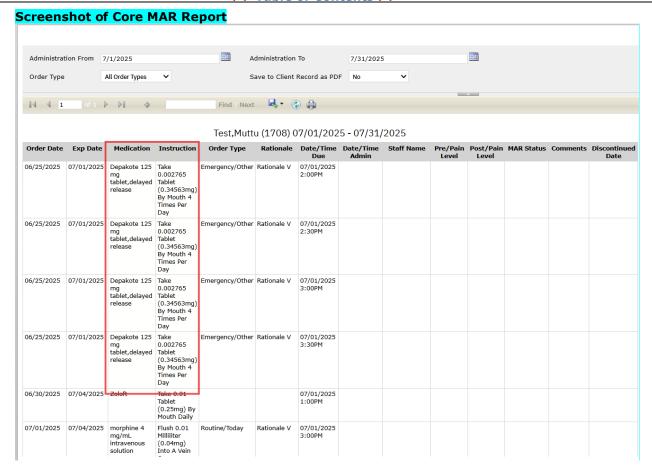




6.Core MAR Report

- 'Intervention' column is renamed to 'Medication' and this column will display the Medication Name.
- Strength, Dose, Route, Freq column is renamed to 'Instruction' which will display the most recent Med Sig updated for the respective Client Order.





7. Medication Reconciliation

Medication and Strength columns are merged and renamed to 'Medication'. This change will be reflected
in the 'Prescribed Medications', 'Self-Reported Medications', and 'Other Medications' sections on both the
UI and the signed PDF.

Example: Ativan 2mg Tablet

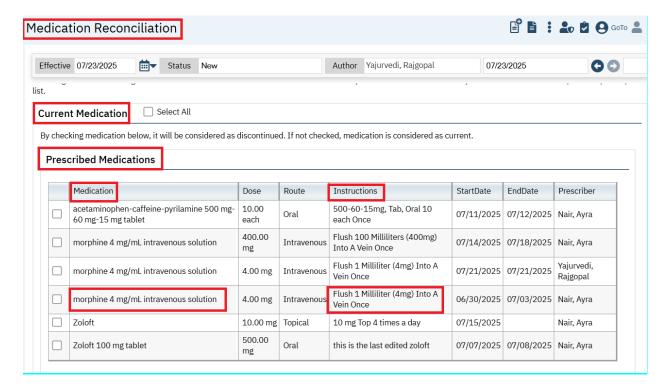
• The updated 'Med Sig' from the respective Client Order will be displayed in the 'Instructions' column in the below format:

(Adverb) (Dose + Unit divided by Strength) (Formulation) ((Dose + Unit)) (Route) (Frequency) ((Day of the week, if applicable, with comma separators))

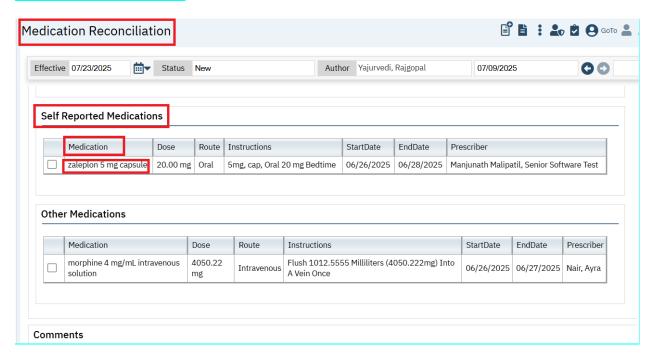
The



Screenshot of 'Medication' and 'Instructions' column in the 'Prescribed Medications' section of 'Medication Reconciliation' document

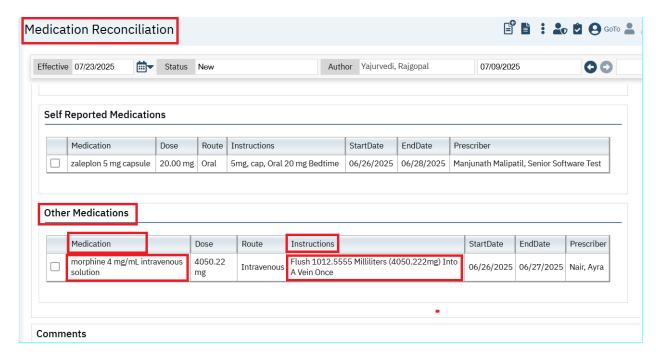


Screenshot of 'Medication' column in the 'Self-Reported Medications' section of 'Medication Reconciliation' document





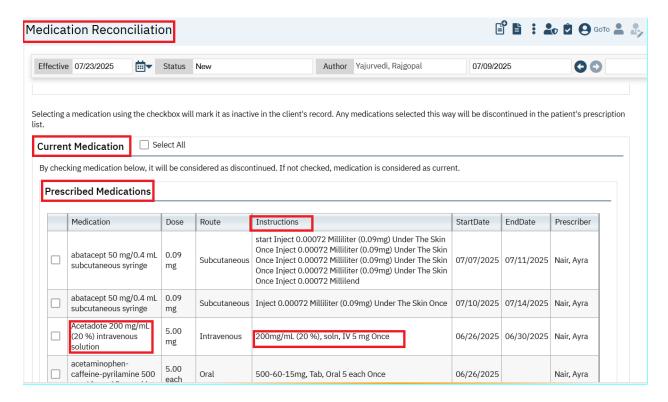
Screenshot of 'Medication' and 'Instructions' column in the 'Other Medications' section of 'Medication Reconciliation' document



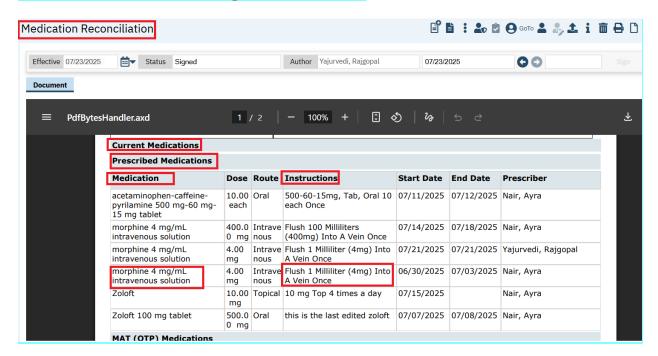
• For any medications where unit = each or where strength = non-numeric format, and if the 'Total Number of Formulations' per dose cannot be converted accurately then the Layman's term format will not be generated instead the old sig format instruction will be displayed. (Only in the 'Prescribed Medications' and 'Other Medications' sections).



Screenshot of Old Sig Format displays in the 'Instructions' column in the Medication Reconciliation document

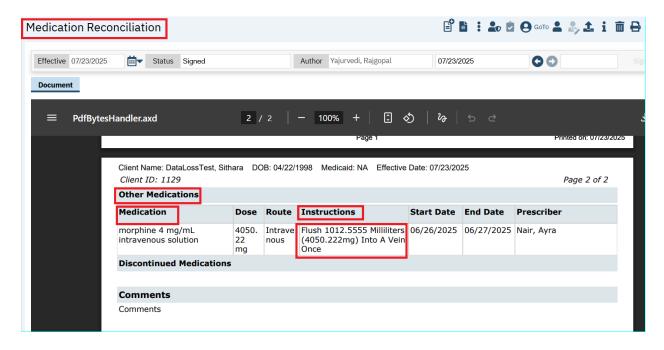


Screenshot of 'Medication' and 'Instructions' column in the 'Prescribed Medications' section of 'Medication Reconciliation' signed PDF document





Screenshot of 'Medication' and 'Instructions' column in the 'Other Medications' section of 'Medication Reconciliation' signed PDF document



Data Model Changes: SigText and **SigTextEdited** columns are added to the **ClientOrders** table.

Author: Rajgopal Yajurvedi, Manjunath Malipatil

141. EII # 131014(Features: 545362, 471462): 'Quick Orders': 'Diagnosis' dropdown is not enabled for Radiology Orders. {ACTIVE CHANGE}

Note: This is the 'Active' change. In this enhancement, the instruction text will display in Layman terminologies for specific medications in Rx.

Medication name will display with its selected strength.

-ditable 'Free-Text Sig' popup will be display during the medication insertion or modification.

Feature- 545362: Scope Tracking: Layman's Terms

Release Type: Change | Priority: Urgent

Prerequisite:

1. Prescribe the medication via New Order via below path

New Order Path: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Click New Order button – New Medication Order Page - Search the Drug with starting three letters - Select the drug – Fill all required fields – click on 'Insert' button – 'Free-Text Sig' popup will display – Click 'Update & Close' button – Medication Inserted - click on 'Prescribe' button – Prescribe page - Click on 'Prescribe' button – 'Patient Summary' page



2. Place the Queued Order Via below path

Queued Order Path: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Click New Order button – New Medication Order Page - Search the Drug with starting three letters - Select the drug – Fill all required fields – click on 'Insert' button – 'Free-Text Sig' popup will display – Click 'Update & Close' button – Medication Inserted - click on 'Queue Order' button

3. Place the Verbal Order Via below Path

Verbal Order Path: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Click New Order button – New Medication Order Page - Search the Drug with starting three letters - Select the drug – Fill all required fields – click on 'Insert' button – 'Free-Text Sig' popup will display – Click 'Update & Close' button – Medication Inserted – Select the Prescriber - click on 'Prescribe' button - 'Patient Summary' page

Navigation Path:

Path for Change Order: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary - Medication List - Select the above prescribe medication - click Change order button - Change Medication Order page - Select the medication radio button - Click Modify button – 'Free-Text Sig' popup will display – Click 'Update & Close' button – Medication Inserted - Click Prescribe button - Prescribe page - Click on 'Prescribe' button – 'Patient Summary' page

Path for Re-Order: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary - Medication List - Select the above prescribe medication - click Re-order button - Re-Order Medication Order page - Select the medication radio button - Click Modify button – 'Free-Text Sig' popup will display – Click 'Update & Close' button – Medication Inserted - Click Prescribe button - Prescribe page - Click on 'Prescribe' button – 'Patient Summary' page

Path for Complete Order: SmartCare - Client - Client Order - Click New Button - Client Order - Insert required field values - Sign the client Order - My Office - Medication Management - Rx application - Start Page - Search and Select the Patient - Patient Summary - Medication List - Select the Client Order - Click Complete Order button - Complete Medication Order Page - Click Prescribe button - Prescribe page - Click on 'Prescribe' button - 'Patient Summary' page

Path for Add Medication: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Click Add Medication button – Add Medication Page - Search the Drug with starting three letters - Select the drug – Fill all required fields – click on 'Insert' button – Medication Inserted – Click Save button - 'Patient Summary' page

Path for Patient Consent Page: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary - Medication List - Select the above prescribe medication – click Patient Consent Button - Patient Consent Page – Select Consent Form in the drop-down – Instruction – Layman Terminologies

Path for Medication History: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Click Medication History button – View Medication History Page

Path for Client Current Medication Report: SmartCare – My Office – Medication Management – Rx application – Start Page – Search and Select the Patient - Patient Summary – Medication List – Click Print List button – Client Current Medication Report

Path for Client Medication History Report - SmartCare - My Office - Medication Management - Rx application - Start Page - Search and Select the Patient - Patient Summary - Click Medication History button - View Medication History Page - Click Print List button - Client Medication History Report



Path for SmartView: SmartCare - Client - Client Information - Click on SmartView button - SmartView Window - Current Medication

Path for Psychiatric Note: SmartCare - Client - Client Information - Services/Notes - New - Service Notes - Select the Required field and Procedure - Psychiatric Note - Note Tab - Medical Decision Making sub-tab - Current Medication - Enter the required fields in required tabs - Click Sign button - Sign the note - Open the PDF

Path for Nursing Admission Assessment: SmartCare – Client – Client Information – From Go search – Search and click Nursing Admission Assessment document - Nursing Admission Assessment (C) page – Allergies tab – Current Medications – Click Sign button – Sign the document – Open the PDF

Path for Shift Note document: SmartCare – Client – Client Information – From Go search – Search and click Shift Notes document – General tab – Orders section - Current Medications – Click Sign button – Sign the document – Open the PDF

Path for Agency/Program Discharge document: SmartCare - Client - Client Information - From Go search - Search and click Agency/Program Discharge document - Agency/Program Discharge page - Medications tab - Current Medications - Click Sign button - Sign the document - Open the PDF

Path for History and Physical document: SmartCare – Client – Client Information – From Go search – Search and click 'History and Physical' document - 'History and Physical' page – Medication History tab - Current Medications – Click Sign button – Sign the document – Open the PDF

Functionality 'Before' and 'After' release

Before this release, here was the behavior. In the Rx application,

1.On the **Order Screen** (New Order / Re-Order / Change Order)

- **Dose** field was displaying up to 4 digits including decimals
- **Unit** field was not auto selected based on selected medication and multiple values were displayed for single medication
- Dispense Quantity value was getting round-off to the nearest value
- Potency Unit fields were not selected based on selected medication and multiple values were displayed for single medication
- Medication was not displayed with its strength value
- **Instruction** text was not displayed in understandable format (Layman Terminologies) (Ex Format -20mg, Tab, Oral 3 each Daily at Noon 90.00)
- Instruction text was not editable after the insertion

2.On the Add Medication page

Dispense Quantity was calculated for medications like Tablets and Capsules

3.On the Patient Summary Page

- Under Medication List, medications were displayed in Medication column
- In Instruction column, instructions were displayed in Old Sig Format
- Dispense Quantity column was not present in Medication List

4.On the Titration Popup

- 'Use Template' and 'Save As Template' button was enabled
- Dispense Qty was calculated for the medication in Tablets and Capsules

5. On the Prescribe Page

- Instruction(s) were displayed under frequency column
- In the Medication Scripts, **Dispense Quantity** was not mentioned for Print and Fax methods

6.On the Order Details Page



- Instruction was displayed under the Strength Column
- Section Medication was displayed with Medication name alone

7.On the Complete Medication Order page, Patient Consent page, Medication History page, Client Current Medications report, Client Medications History report, SmartView window, Psychiatric Note page, Nursing Admission Assessment (C) document page, Shift Note document page, Agency/Program Discharge document page, History and Physical document page

- **Medication** was not displayed with its strength value
- Instruction text was not displayed in understandable format
 (Ex Format -20mg, Tab, Oral 3 each Daily at Noon 90.00) (Non-Layman Terminologies)

8. On the Queued Order and Verbal Order page

- Instruction text was not displayed in understandable format
 - (Ex Format -20mg, Tab, Oral 3 each Daily at Noon 90.00) (Non-Layman Terminologies)
- Dispense Qty field was not displayed for Print and Fax Method

With this release, the following changes are applied to the pages below.

Below common fields of functionalities are changed in Order Pages.

Layman terminologies (Sig-Text) are applied in Order Page and displayed in the Prescription Page and Reports

- Layman terminology will be generated for respective Dose, Unit and Potency Units are auto selected when user selects the Medication
- Layman terminology will not be generated when Strength / Unit field is empty
- Layman terminology will not be generated when strength is in non-numeric value or like percentage or range or multiple values
- Layman terminology will not be generated when unit is 'Each'

Medication Description:

Medication will be displayed with the selected strength

Ex - 'amiodarone 200 mg tablet'

'morphine 10 mg/mL injection solution'

Dose value selection and calculation:

Dose is auto selected based on the strength of medication and calculated in the order pages with following conditions

- 1. A new Layman's SIG format will be generated for the medication if the Total Number of Formulations per Dose can be accurately converted.
- 2. Total number of Formulations per Dose will be calculated and displayed up to 8 digits total (up to 7 digits including decimal).

Example: 1.123456

- 3. If the total number of Formulations which is any value other than 1, 's' will be displayed at the end of the Unit like tablets, capsules, millilitres
- 4. If the dose calculation is less than 1 then zero will displayed before the decimal.
- 5. Dose values are not selected when strength is in non-numeric value or like percentage or range or multiple values

Number of Formulations per Dose = <Dose> <Units> divided by <Strength>

Example 1: Tablet

Dose: 500 mg

Strength: 250 mg/tablet

Calculation: 500 ÷ 250 = 2 tablets per dose

Layman's SIG: "Take 2 Tablets By Mouth Once Daily"



Example 2: Oral Liquid

- Dose: 10 mg
- Strength: 5 mg/mL
- Calculation: 10 ÷ 5 = 2 mL per dose
- Layman's SIG: "Take 2 Millilitres By Mouth Every 6 Hours"

If Total Number of Formulations per Dose cannot be calculated or cannot be converted accurately the **old Sig format** will be displayed.

The **old Sig format** will be used in the following conditions:

- Strength Description contains multiple numeric values separated by a dash (e.g., 860-160 mg).
- Strength Description contains powd (Powder)/ PwPk(Powder Packet)
- Medication name contains Allergenic extract/ Bulk.
- When Unit comes as 'Unit'
- Strength Description contains 'Miscellaneous' (misc).
- Strength including Complex values ('x 2' or 'x 4' or 'x and any number')
- Strength Description includes "/dose" or "per dose".
- Medication comes as Pump, Inhaler, Spray (spry), Puff, Inhalation, Actuation, Mist, Kit, Flakes, Granules,
 Drop, Scoop, Packet (pack), Gel Packet (glpk), Piggyback (pgbk), Auto-Injector (atIn), Pen Injector (pnij)
- When Potency Unit and Unit is set as 'Each'.
- Strength Description containing percentage (%)
- If Strength Description: Contains **non-numeric** formats (e.g., **range** like 1-2 mg or **percentages**) and contains **textual or symbolic** values instead of clean numeric values.

Unit value selection:

- Unit is auto selected based on the strength of medication in the order pages with following conditions
- Any Strengths in mg/ML format, then Unit will be defaulting as 'mg'
- If the 'Strength' is in non-numeric format (such as percentage or range), then the Unit will be defaulted as 'Each'.

Dispense Quantity calculations:

Dispense Quantity is calculated based on the below formula:

- Dispensed Quantity will not be rounded off to the nearest value.
- If there is a zero before the decimal, Dispense Quantity will be displayed up to 3 digits after decimal and all other digits will be truncated. (Example: 0.248)
- If there is a number 1 or higher before the decimal, Dispense Quantity will be displayed upto 2 digits after decimal and all other digits will be truncated. (Example: 2.44)
- If the Dispense Quantity value is less than 1 then zero will be displayed before the decimal
- Trailing zeros will not be displayed for Dispense Quantity. (Example A: 60.6) (Example B: 0.88)
- Dispense Quantity field will be blank if Medications's Unit = 'Unit' or 'Unit/x' or 'Each' or Blank
- Dispense Quantity field will be blank for Titration Orders
- The Dispense Quantity will initialize as blank for Medications where Strength Unit comes as these values = unit/mL, unit/gram, unit, BAU/mL, unit/mg, mPas, BAU, anti X-a Unit/mL, mcg/5 mL 4%, (+/-) unit, mcg/3 mL 4%, mg/gram (scoop), mg/g, centistokes, TCI50/0.5mL, kcal/100 gram, mg/spray, mg iodine/mL, gram, mcg/actuation, square mm, indx reactivity, kcal/52 mg, unit/mg (USP, mEq/1000 mL, mEq/1150 Mm, %, cm 2, unit/mL (50-50), unit/mL (75-25), unit/mL (70-30), cm, mg iron/mL, kcal/18 gram, % (w/w), mm, % (84.5-98.5%), microL, kcal/13 gram, % (w/v), % to 68%, PPM, gram/240 mL, mcg/dose, gauge, Fr, SPF, SQ inch, gram/120 mL, mcg (0.025%), Markers, gram/31 gram, square inch, mEq/L (= K+), 16, Bndg, Top, SQ-HDM, 10.3, misc, misc, mg/mL, (1%), mg/12.5 mL, 1 x 10exp8 cell, 10exp6 cell/MI, billion cell, Million Cell,cell/5 drop, cell/5 drops, cell/6 gram, cell/drop, cell/gram, cell-75 mg



Dispense Quantity Formula = (Dose+Unit / Strength) x Times Per Day x Days

- Basic Formula (If the Medication is given in discrete units, such as Tablets or Capsules)
 - → Convert Dose (mg) to Number of Potency Units per Dose
 - → Calculate Total Number of Doses
 - → Calculate Total Dispense Quantity (in Potency Units)

Example: Dose = 500mg; Strength = 250mg; Frequency = 2 Times Per Day; Days = 7 Days

- \rightarrow 500mg / (250mg/Tablet) = 2 Tablets per Dose
- \rightarrow 2 Times Per Day x 7 Days = 14 Doses
- → 2 Tablets per Dose x 14 Doses = 28 Tablets

Dispense Qty = 28 Tablets

- Volume-Based Formula (If the Medication is given as a Liquid, such as Xmg/XmL)
 - → Convert Dose (mg) to Volume (mL)
 - → Calculate Total Number of Doses
 - → Calculate Total Dispense Quantity (in mL)

Example: Dose = 250mg; Strength = 125mg/5mL; Frequency = TID (3 Times per Day); Days =

10 Days

- \rightarrow 125mg/5mL = 25mg/mL
- \rightarrow 250mg / (25mg/mL) = 10mL per Dose
- → 3 Times Per Day x 10 Days = 30 Doses
- → 10mL per Dose x 30 Doses = 300 Millilitres

Dispense Qty = 300 Millilitres

Potency Unit value selection:

- For any medication which cannot initialize (percentages, complex, non-numeric values) 'Potency Units' will then initialize with the blank.
- For any Medications that are in Strength format for liquids, such as 'mg/mL', '10mg/mL, 5mg/5mL, then the 'Potency Unit' will always populate as 'Millilitre'.
- Potency Unit' will be initialized as blank when strength is selected as 'Other' and all the available Potency Unit values will be displayed in the dropdown.

Instruction column in Medication List:

- When user clicks the insert button, instruction will be in the below sig format:
 - (Adverb) (Dose + Unit divided by Strength) (Formulation) ((Dose + Unit)) (Route) (Frequency) ((Day of the week, if applicable, with comma separators separators))
 - Example Take 5.005 Millilitres (160.16mg) By Mouth Every Other Day (Sunday, Tuesday, Thursday)
- This column displays the calculated instruction text, which can be either the 'Layman's Terms' version or the 'Old Sig' version, with an ellipsis added at the end to indicate that the instruction continues. On mouse hover, the full instruction text is displayed.
- Instruction will be hyper link
- When user clicks on Instruction hyper link, 'Free-Sig Text' popup will be displayed to edit the instruction This will display the calculated instruction text (either Layman's Terms or Old Sig version).
- The first letter of every word in the sig will be capitalized

`Free-Text Sig' Pop-Up

• When user clicks the Insert/Modify button, then this pop-up will appear with the header 'Free-Text Sig' Pop-Up. This will display the calculated instruction text (either Layman's Terms or Old Sig version).

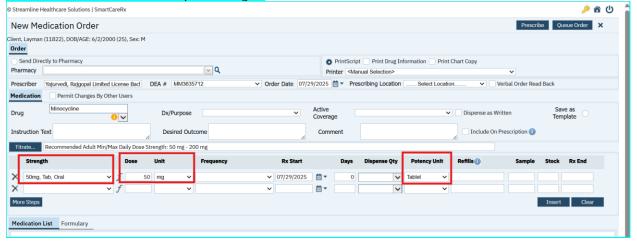


- When the instruction text hyperlink in the 'Instructions' column is clicked, a pop-up will appear with the header 'Free-Text Sig' Pop-Up.
- This is an editable textbox which accepts up to 250 characters, and the textbox will expand vertically as user enters the text.
- 'Free-Text Sig' popup will be the last sequence (after all other popups are thrown), prior to Insertion.
- If user is adding the medication in multiple steps then 'Free-Text Sig' popup will not be displayed
- If User is inserting the controlled medication with additional orders, then 'Free-Text Sig' popup will not be displayed
- Users can add up to 250 characters in Free-Text Sig popup during the first medication insertion.
- For re-orders or change orders, the 'Med Sig' field initializes with the most recently saved med sig from the previously signed order.
- The 'Free-Text Sig' pop-up displays two buttons: 'Revert Text' and 'Update & Close'.
- When 'Revert Text' button is clicked, it will revert the updated Sig and display the system generated Sig (either Layman's terms or old sig version).
- When 'Update & Close' button is clicked, then it will update to the instruction text entered and then
 closes the pop-up. The updated instruction text will then be displayed in the 'Med Sig' column in the
 order grid.
- When 'Update & Close' button is clicked but the textbox is blank and the below validation message will be displayed.
 - **Validation Message**: "Please enter a free-text Sig or click 'Revert Text' for the system to reset the Sig."
- Free-Text Sig popup will be the last sequence (after all other popups are thrown), prior to Insertion.
- When user clicks the Close(X) button in the popup, Popup will be closed and medications are not inserted.

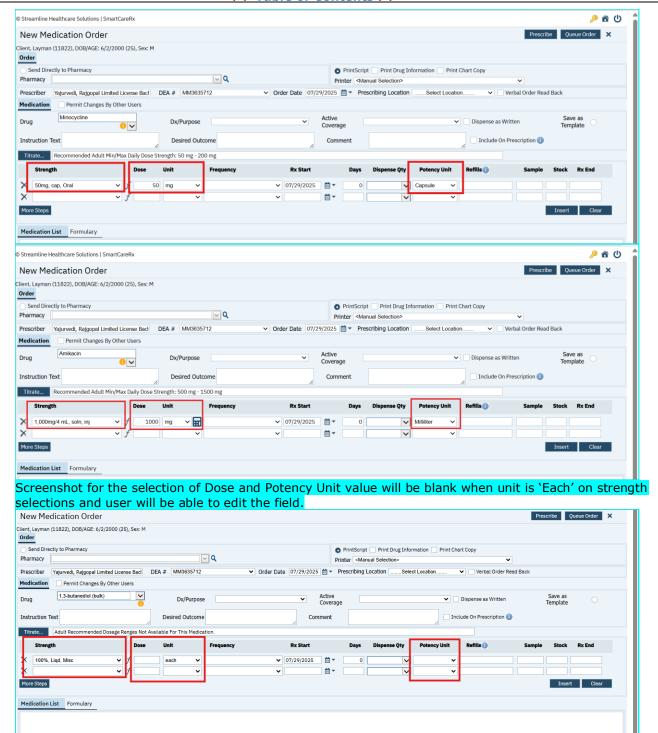
Above Field Value Changes are implemented below Rx Application Screens

New Medication Order page

Screenshot of selection of Dose(Same value as Strength), Unit(mg) and Potency Unit(Tablet/Capsule/Millilitre) value selection on selection upon strength.



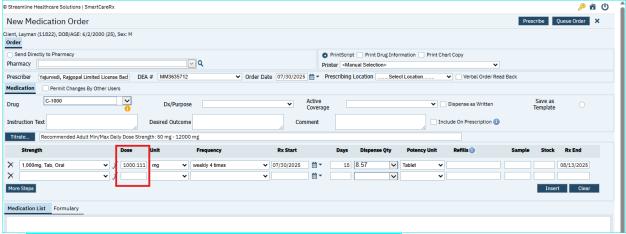




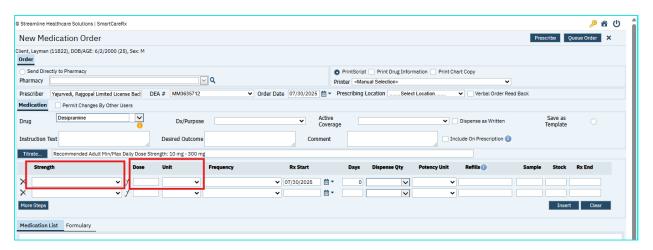
Dose

The value for 'Dose' will be initialized based on the strength selection and field will allow a total of 8 values including decimal.
 Ex: 1008.108



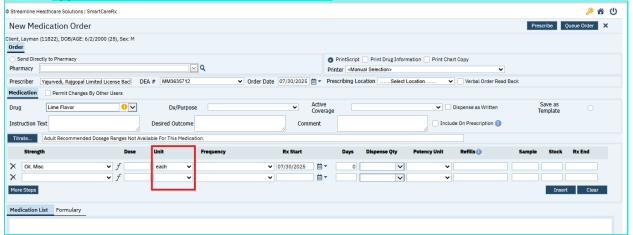


Dose field will be blank when strength field is not selected



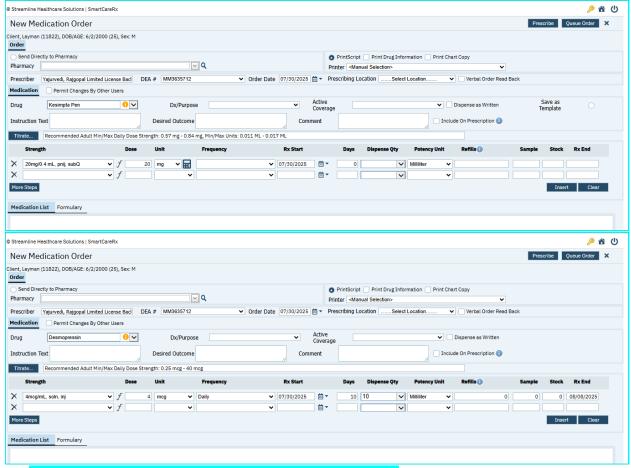
Unit:

• For any medication which cannot initialize (percentages, complex, non-numeric values) **'Unit'** will then application will initialize with the value **'each'**.

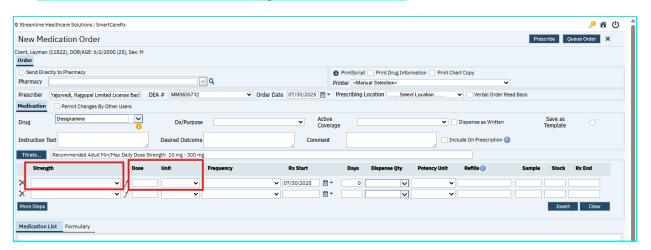


• 'Unit' will always populate as 'mg/mcg' for any medication that are in strength format for liquids such as 'mg/mL', '10 mcg/mL', '5 mg/5mL'.





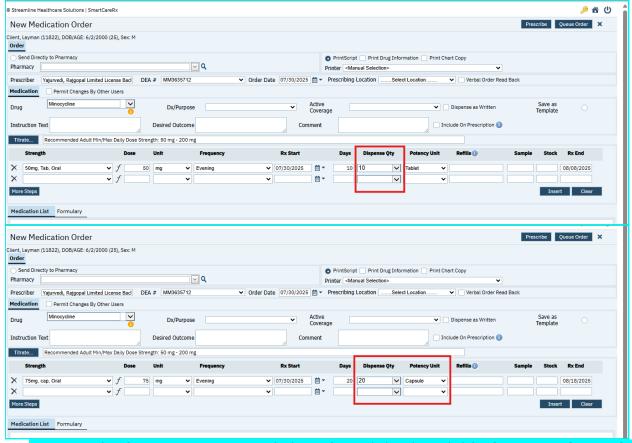
Unit field will be blank when strength field is not selected



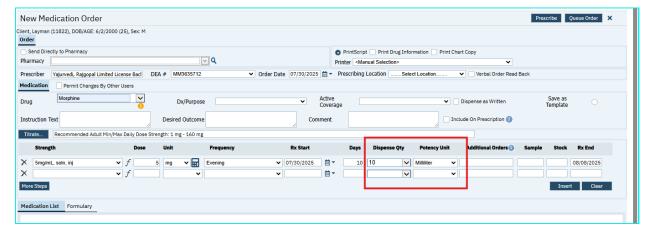
Dispense Quantity

- The 'Dispense Quantity' will be automatically calculated for selected medication using the abovementioned formula.
- Screenshot for Dispense Quantity calculation for Tablets and Capsules

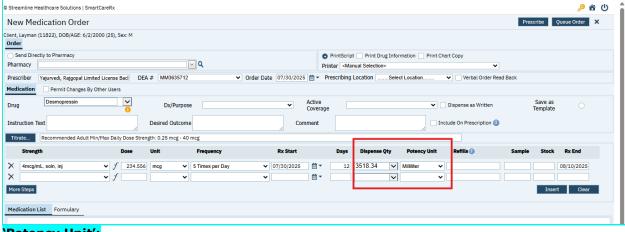




Screenshot for Dispense Quantity calculation for mg/ml and mcg/ml (Volume-Based Formula)

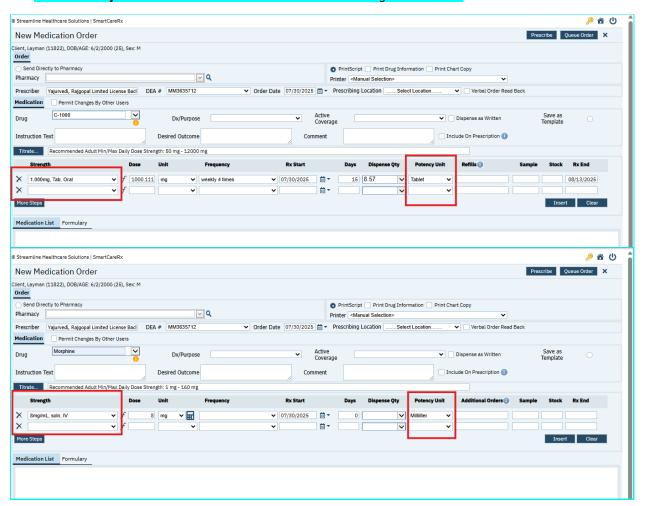




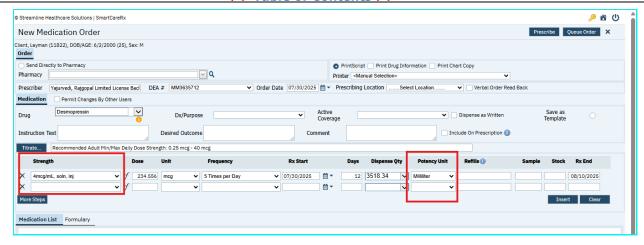


'Potency Unit':

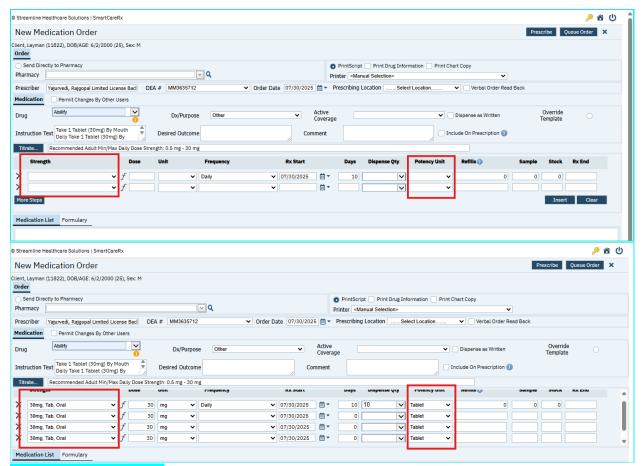
'Potency Unit' will be initialized based on the 'Strength' selection.







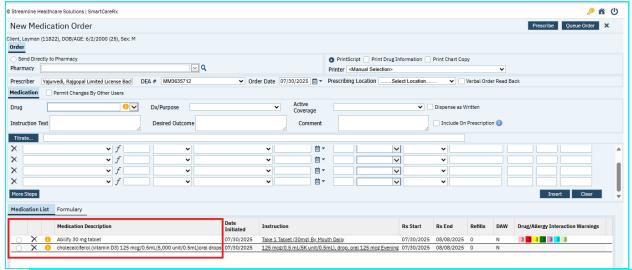
Screenshot for 'Potency Unit' that will be initialized as blank when strength is not selected as 'Other'
and when strength is added in multiple steps then Potency Unit will be auto initialized with respective
steps



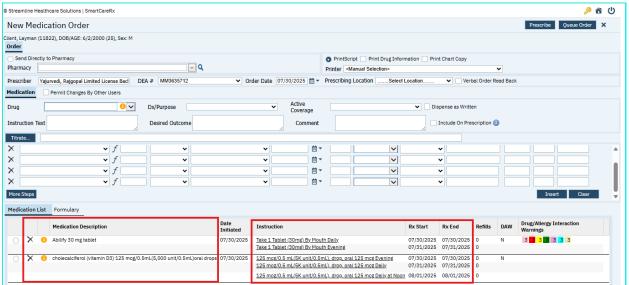
Medication Description

Screen shot for Medication Description that will be displayed with its Strength selected. 'Ex- Abilify 30 mg tablet'





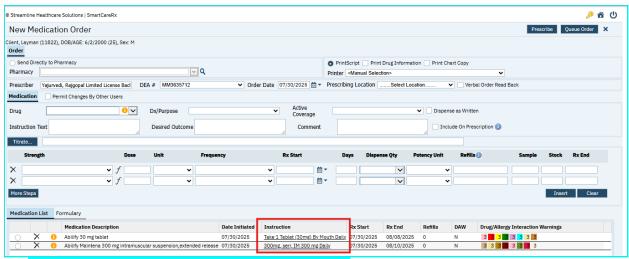
 When the medication is added and inserted in multiple steps, medication name will be displayed for top row and will be blank for other rows



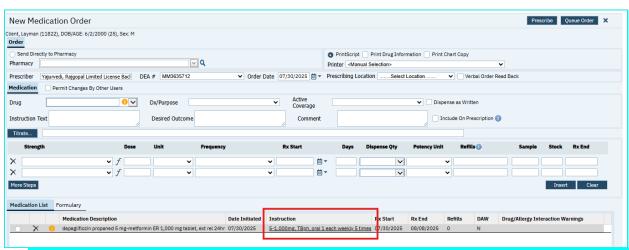
Instruction

 Screen shot of instruction in the medication list in Layman Terminologies and old sig based on medication selection

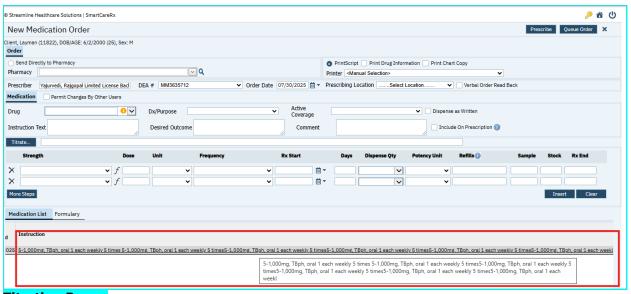




Screenshot for Instruction displayed in hyper link



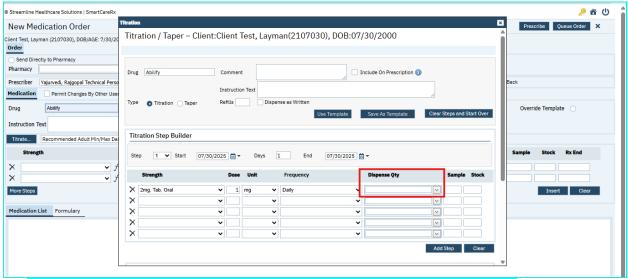
• Screenshot for the instruction for having 250 characters and On mouse hover, the full instruction text is displayed.



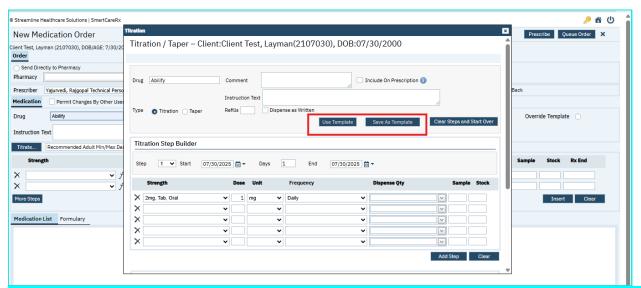
Titration Popup



- Old sig will be generated for the medication under instruction column in Titration Popup.
- Screenshot for Dispense Quantity not calculated in Titration Popup



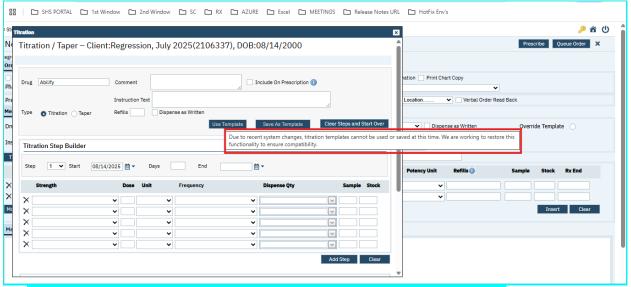
'Use Template' and 'Save As Template' will be disabled in the Titration Popup



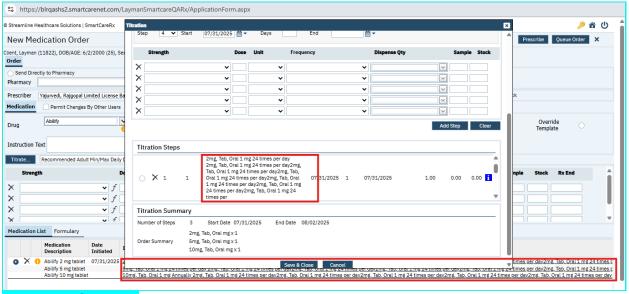
When user mouse overs on the Save As Template or Use Template buttons, below message will be displayed: 'Due to recent system changes, titration templates cannot be used or saved at this time. We are working to restore this

functionality to ensure compatibility.'





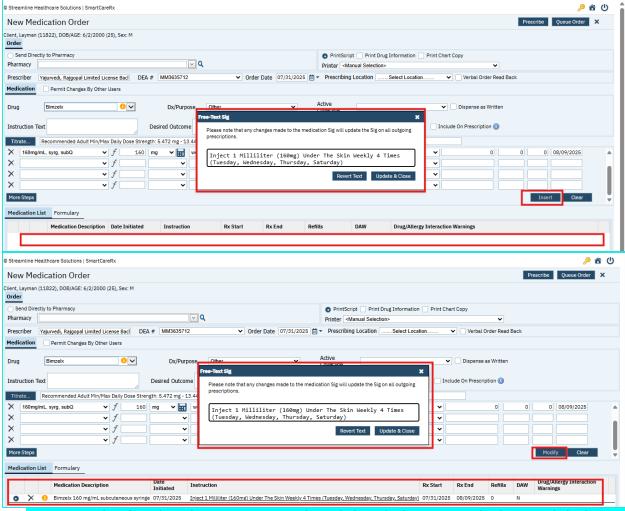
Screenshot for 250 characters under instructions column in Titration Popup



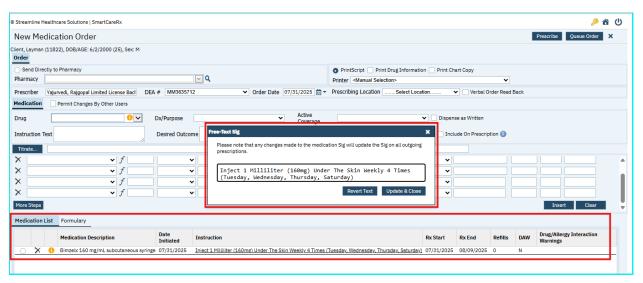
Free-Text Sig Popup

 Screenshot for When user clicks the Insert/Modify button, then this pop-up will appear with the header 'Free-Text Sig'.



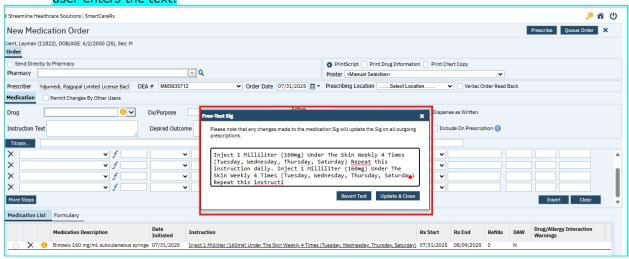


- Screen shot for When the instruction text hyperlink in the 'Instructions' column is clicked, a pop-up will appear with the header 'Free-Text Sig'.
- "Please note that any changes made to the medication Sig will update the Sig on all outgoing prescriptions." message will be displayed in the pop up

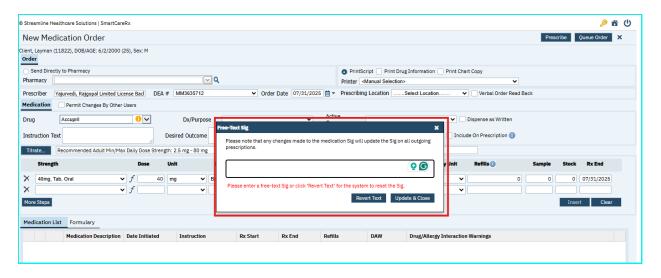




This is an editable textbox which accepts up to 250 characters, and the textbox will expand vertically as
user enters the text.



Screen shot for Validation Message: "Please enter a free-text Sig or click 'Revert Text' for the system
to reset the Sig." in the Free-Text Sig popup.



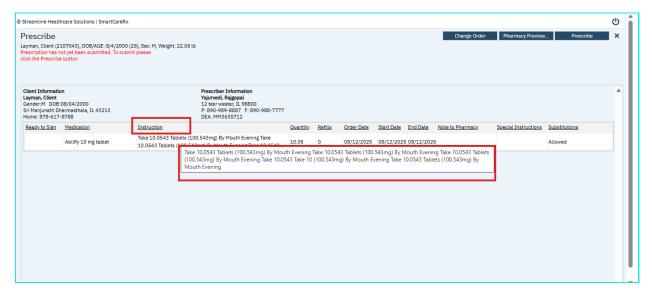
Prescribe Page

Medication is displayed with its strength under Medication column. 'Ex- Abilify 10 mg tablet'



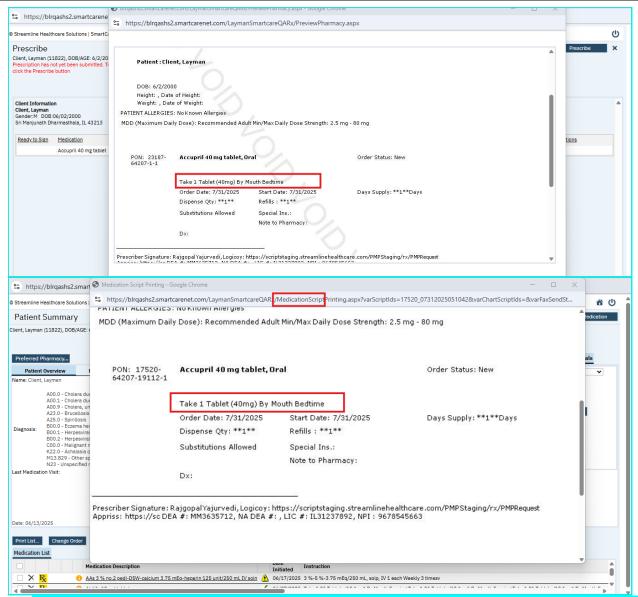


- Frequency Column name is updated to Instruction column
- Screenshots for **Instruction**(s) are displayed under the Instruction column and when there are 250 characters in instruction then on mouse hover, the full instruction text is displayed.



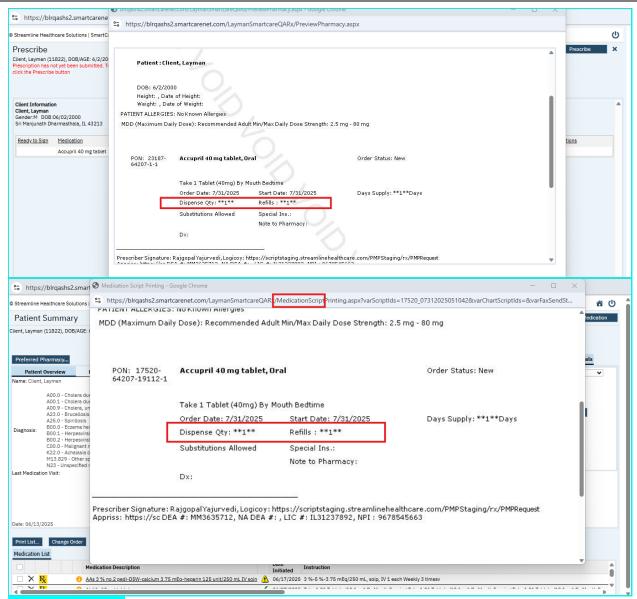
- Calculated instruction text (either Layman's Terms or Old Sig version) will be displayed in Medication script.
- Screenshot for instruction text in pharmacy Preview Script and Medication script





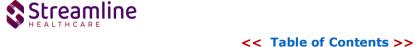
- In the Medication Scripts, **Dispense Qty** will be mentioned as Print and Fax methods as a new field under 'Order Date' (where 'Refill' currently lives)
- In the Medication Script, Refills' will be displayed in the same row and it is moved to the next column on the right (under 'Start Date')
- Screen shot for Dispense Qty and Refills in the Pharmacy Preview Script and Medication Script

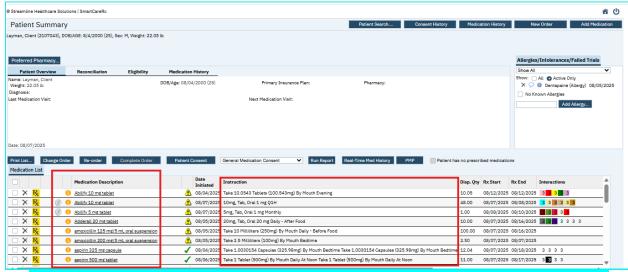




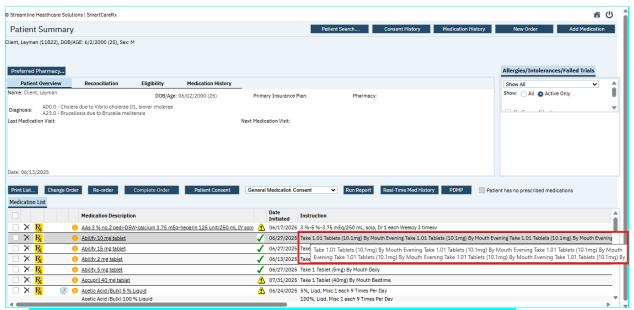
Patient Summary

- Under the Medication List, Medication is displayed with its strength under Medication Description column. 'Ex- Abilify 15 mg tablet'
- Medication name is displayed with its selected strength
- Calculated instruction text (either Layman's Terms or Old Sig version) will be displayed in Patient Summary Page
- Instructions text is not hyperlink and will not be editable
- Screenshot for Medication & Instruction text in Patient Summary Page



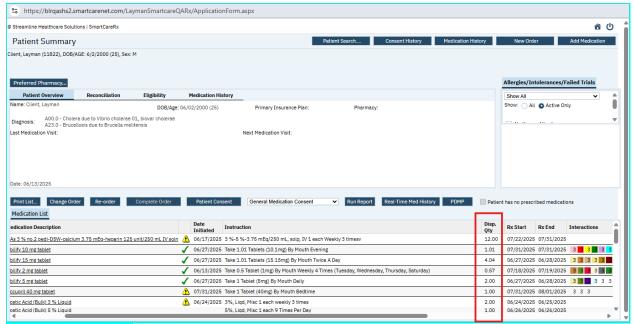


- When instruction has 250 characters, On mouse hover, the full instruction text is displayed.
- Screenshot for when instruction has 250 characters



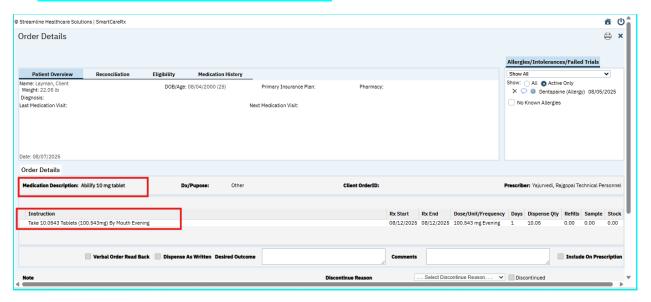
- Dispense Quantity (Disp. Qty) field is newly added in Patient Summary page
- Disp. Qty column is added after 'Instruction' and before 'Rx Start'
- Screen shot for Disp. Qty in Patient Summary page





Order Details Page

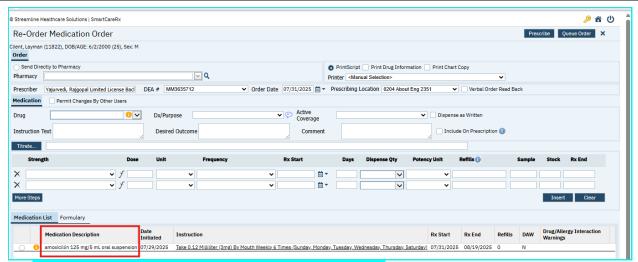
- Under the Order Details section, Medication is displayed with its strength under Medication Description column. 'Ex- Abilify 10 mg tablet'
- Screenshot for **Medication Description**
- Under the Order Details section, the 'Strength' sub section is renamed to Instruction.
- Calculated instruction text (either Layman's Terms or Old Sig version) will be displayed based on the medication prescribed
- Screenshot for Medication & Instruction Text



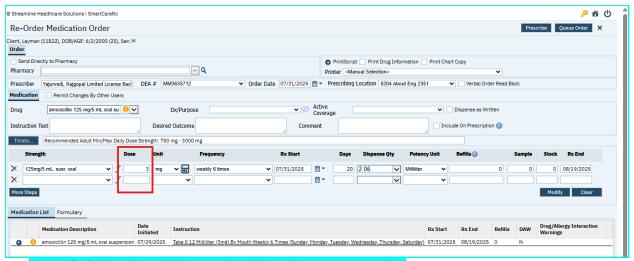
Re-Order Medication Order

- Medication is displayed with its strength under Medication Description column. 'Ex- amoxicillin 125mg/5 mL oral suspension'
- Screen shot for Medication Description



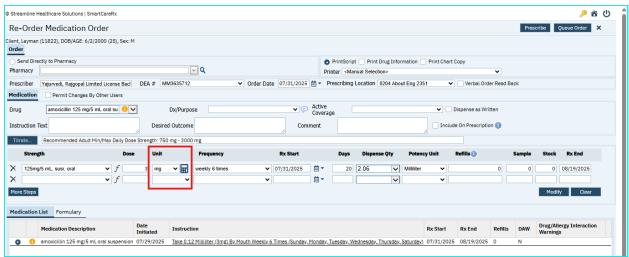


- Dose value will be initialized based on previous order.
- Dose value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order when user wants to edit the order (Click the radio button)
- Dose field will allow 8 digits including the decimal
- Screenshot for Dose value initialization

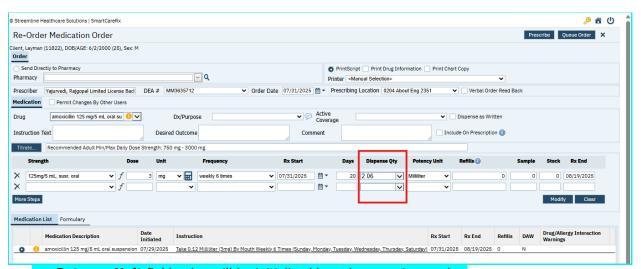


- Unit field value will be initialized based on previous order.
- Unit field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Unit value initialization



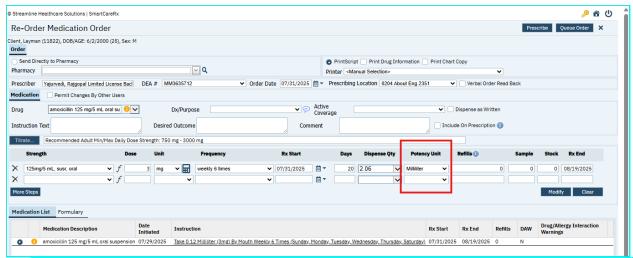


- Dispense field value will be initialized based on previous order.
- Dispense field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Dispense value initialization

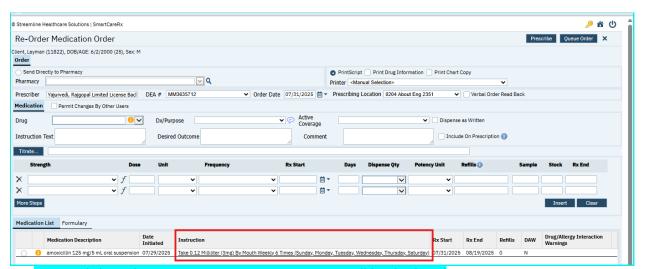


- Potency Unit field value will be initialized based on previous order.
- Potency Unit field value will be initialized as blank due to the incorrect values in the previous order.
 When user wants to edit the order (Click the radio button)
- Screenshot for Potency Unit value initialization



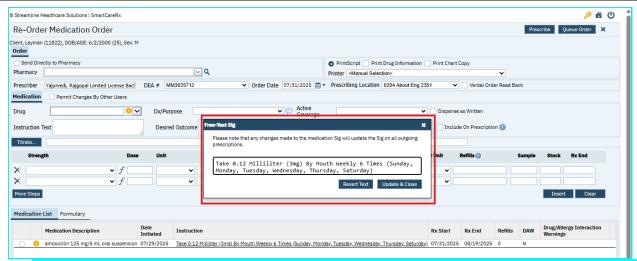


- **Instruction** column will be initialized based on previous order which can be either the 'Layman's Terms' version or the 'Old Sig' version.
- Instructions in Instruction column will be hyperlink
- Screenshot for Instruction initialization

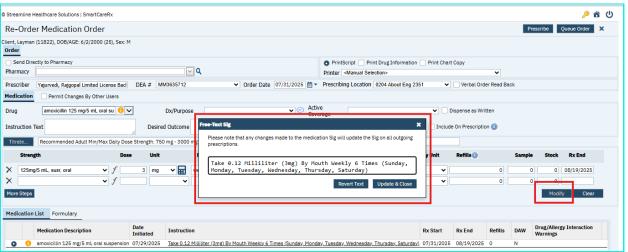


- On clicking the instruction Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking instruction hyperlink



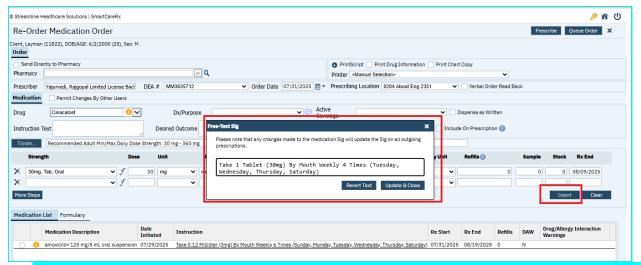


- If user wants to modify the order (Click the radio button), after modifying the order, when user clicks
 Modify button, Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking Modify button



- If users want to add the new medication in Re-Order page, Free-Text Sig Popup will be displayed during insertion of medication
- Screenshot for Free-Text Sig Popup on clicking Insert button

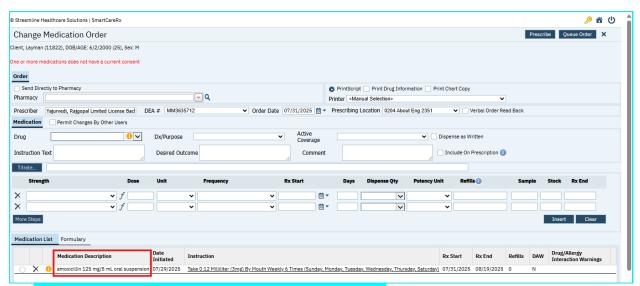




Free-Text Sig Popup will not be displayed if the modified medication has multiple steps for prescription

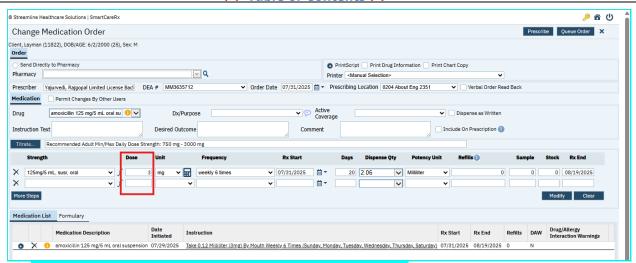
Change Medication Order

- Medication is displayed with its strength under the Medication Description column. 'Ex- amoxicillin 125mg/5 mL oral suspension'
- Screen shot for Medication Description

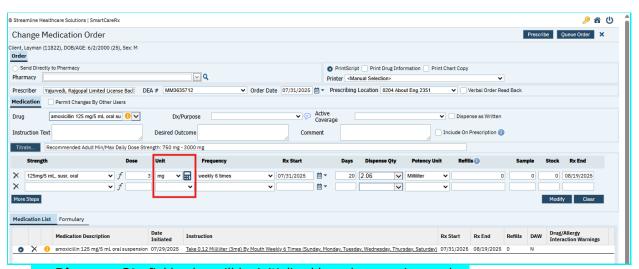


- Dose value will be initialized based on previous order.
- Dose value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Dose field will allow 8 digits including the decimal
- Screenshot for Dose value initialization



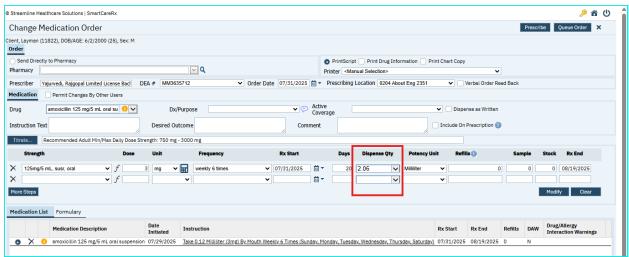


- Unit field value will be initialized based on previous order.
- Unit field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Unit value initialization

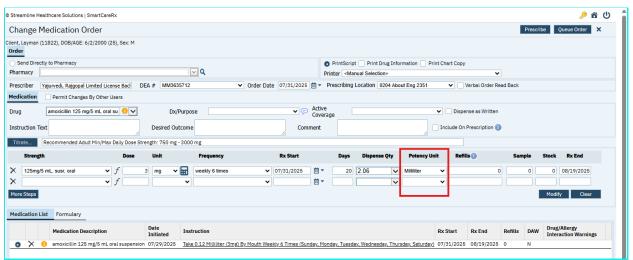


- Dispense Qty field value will be initialized based on previous order.
- Dispense field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Dispense value initialization



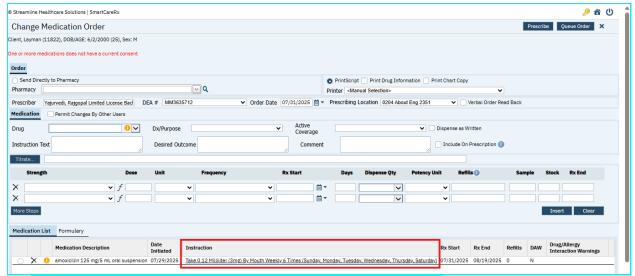


- Potency Unit field value will be initialized based on previous order.
- Potency Unit field value will be initialized as blank due to the incorrect values in the previous order.
 When user wants to edit the order (Click the radio button)
- Screenshot for Potency Unit value initialization

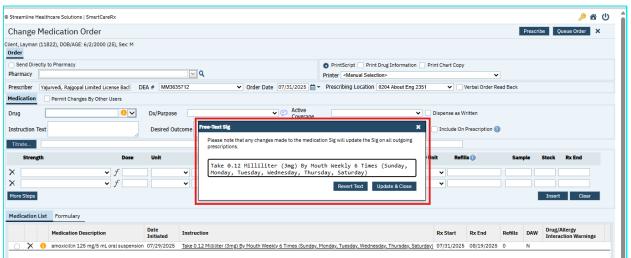


- **Instruction** column will be initialized based on previous order which can be either the 'Layman's Terms' version or the 'Old Sig' version.
- Instructions in Instruction column will be hyperlink
- Screenshot for Instruction initialization



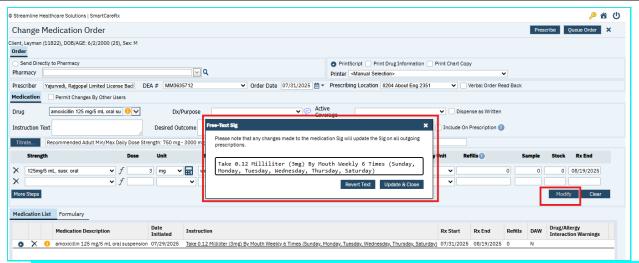


- On clicking the instruction Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking instruction hyperlink

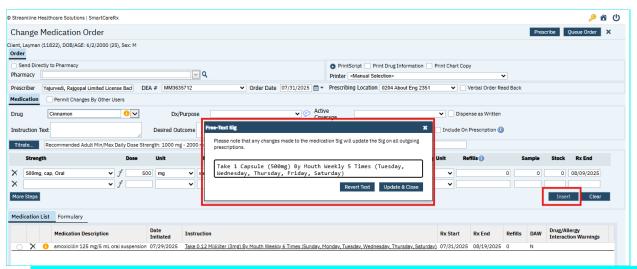


- If user wants to modify the order (Click the radio button), after modifying the order, when user clicks Modify button, Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking Modify button





- If user wants to add the new medication in Change Order page, Free-Text Sig Popup will be displayed during insertion of medication
- Screenshot for Free-Text Sig Popup on clicking Insert button

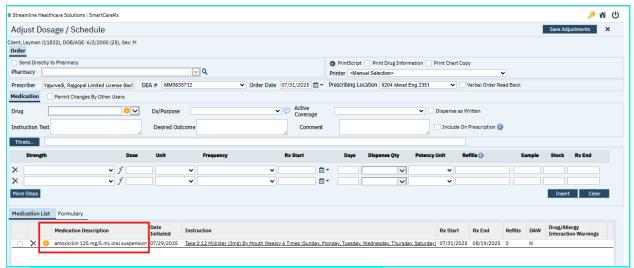


Free-Text Sig Popup will not be displayed if the modified medication has multiple steps for prescription

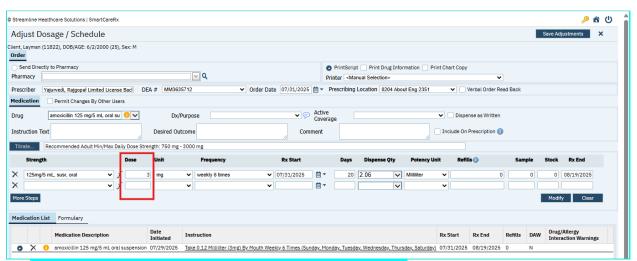
Adjust Dosage/Schedule

- Medication is displayed with its strength under Medication Description column. 'Ex- amoxicillin 125mg/5 mL oral suspension'
- Screen shot for Medication Description



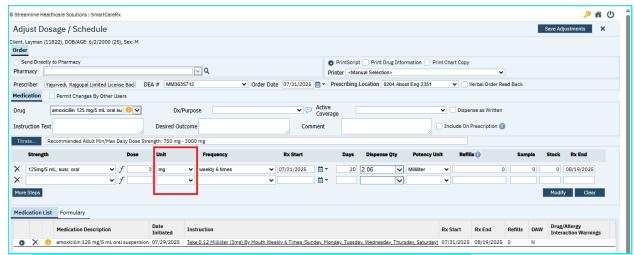


- Dose value will be initialized based on previous order.
- Dose value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Dose field will allow 8 digits including the decimal
- Screenshot for Dose value initialization

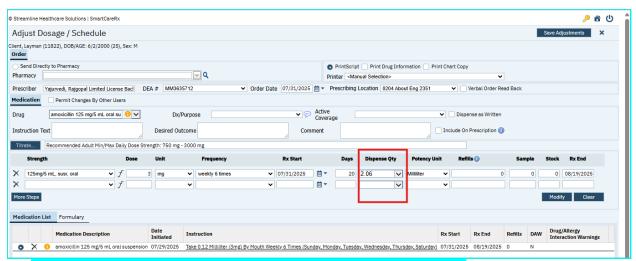


- Unit field value will be initialized based on previous order.
- Unit field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Unit value initialization



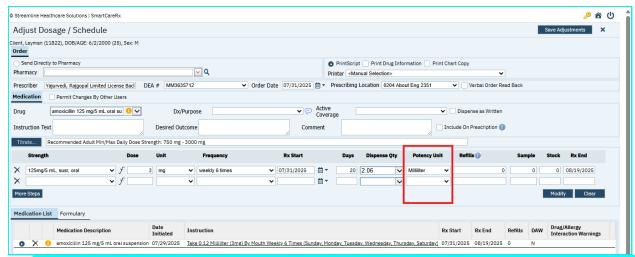


- **Dispense Qty** field value will be initialized based on previous order.
- Dispense field value will be initialized as blank due to the incorrect values/multi numeric values/unit as Each/ in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Dispense Qty value initialization

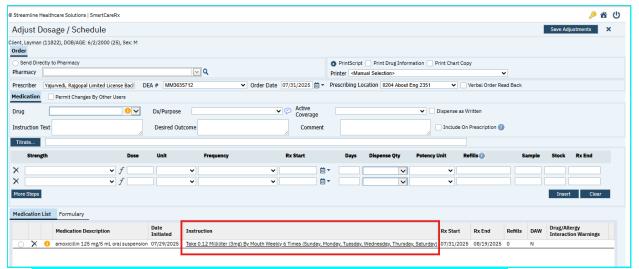


- Potency Unit field value will be initialized based on previous order.
- Potency Unit field value will be initialized as blank due to the incorrect values in the previous order. When user wants to edit the order (Click the radio button)
- Screenshot for Potency Unit value initialization



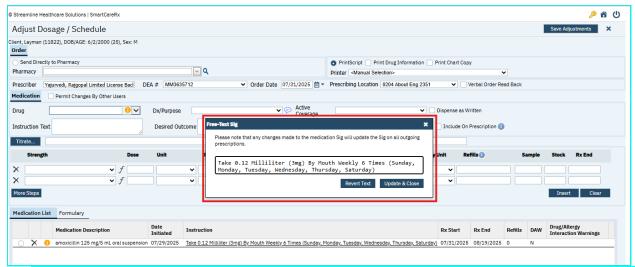


- **Instruction** column will be initialized based on previous order which can be either the 'Layman's Terms' version or the 'Old Sig' version.
- Instructions in Instruction column will be hyperlink
- Screenshot for Instruction initialization

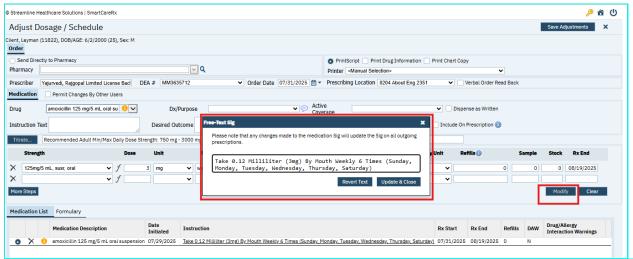


- On clicking the instruction hyperlink, Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking instruction hyperlink



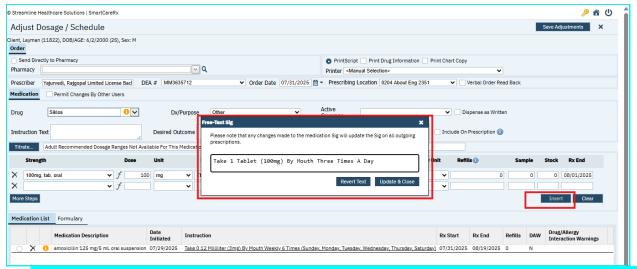


- If user wants to modify the order (Click the radio button), after modifying the order, when user clicks Modify button, Free-Text Sig Popup will be displayed
- Screenshot for Free-Text Sig Popup on clicking Modify button



- If wants to add the new medication in Adjust Dosage / Schedule page, Free-Text Sig Popup will be displayed during insertion of medication
- Screenshot for Free-Text Sig Popup on clicking Insert button

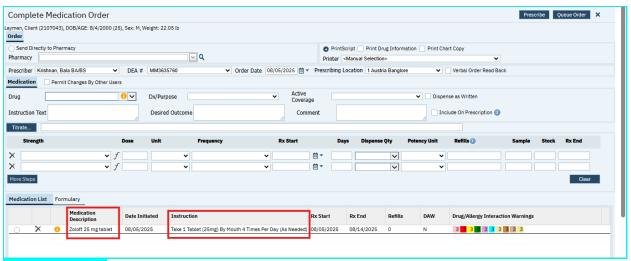




Free-Text Sig Popup will not be displayed if the modified medication has multiple steps for prescription

Complete Medication Order

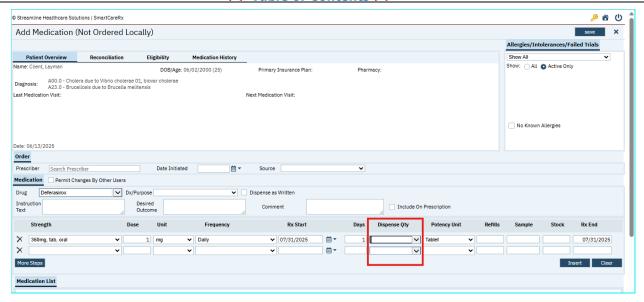
- In Complete Order page, user is not allowed to do any modifications
- Medication is displayed with its strength under the Medication Description column. 'Ex- Zoloft 25 mg tablet'
- Screen shot for Medication Description
- **Instruction** column will be initialized based on previous order which can be either the 'Layman's Terms' version or the 'Old Sig' version.
- Screenshot for Medication & Instruction



Add Medication

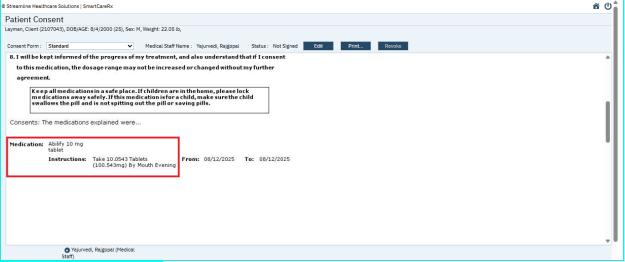
- Dispense Qty is not calculated in the Add Medication Page
- Screenshot for Dispense Qty





Patient Consent

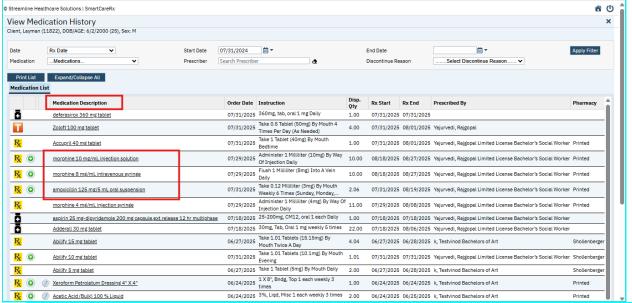
- Medication will be displayed with selected strength
- **Instruction** will be initialized based on medication prescription which can be either the 'Layman's Terms' version or the 'Old Sig' version.
- Screenshot for Medication and Instruction in Standard Consent



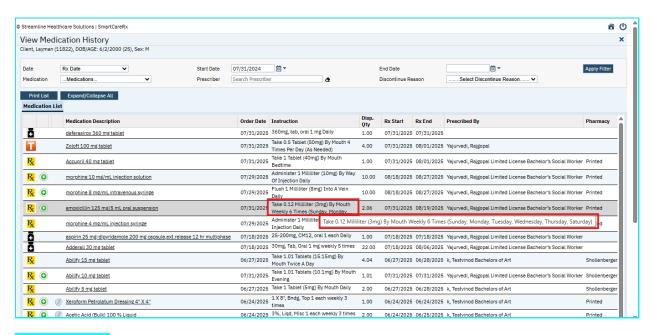
View Medication History

- Medication is displayed with its strength under the Medication Description column.
- Thirty characters will display in first line and thirty characters will display in second line
- If Medication Description is greater than 60 characters and cannot be displayed fully in two rows,
 Medication Description will be displayed in ellipsis and on mouse hover full medication name will be displayed
- Screenshot for Medication Description in View Medication History page





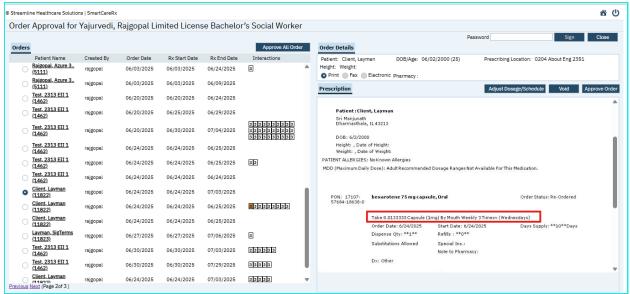
- **Instruction** will be initialized based on medication prescription which can be either the `Layman's Terms' version or the 'Old Sig' version.
- Thirty characters will display in first line and thirty characters will display in second line in Instruction column
- If Instruction is greater than 60 characters (having 60–250 characters) and cannot be displayed fully in two rows, Instruction will be displayed in ellipsis and on mouse hover the full instruction will be displayed.
- Screenshot for Instruction in View Medication History page



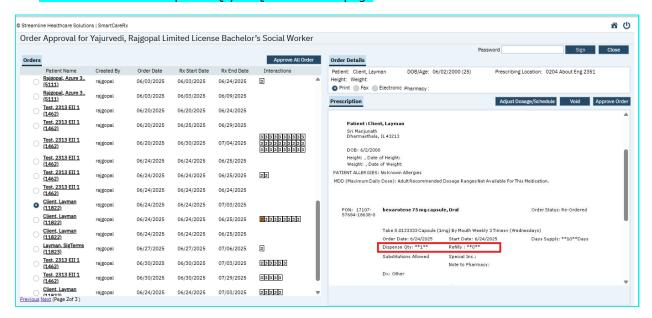
Queued Order

- **Instruction** will be initialized based on medication prescribed which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for the Sig text in Prescription Section





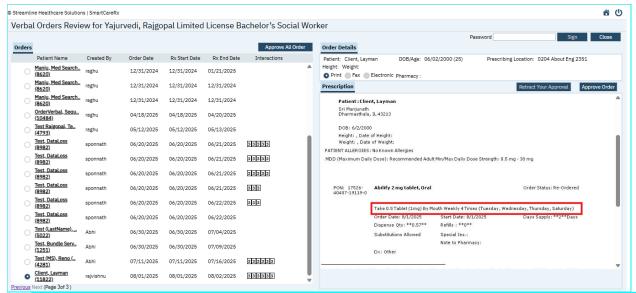
- In the Prescription section, the **Dispense Qty** will be displayed as a new field under 'Order Date' and 'Refills' field is kept in the same row and moved it to the next column on the right (under 'Start Date')
- Screenshot for Dispense Qty in Queued Order page



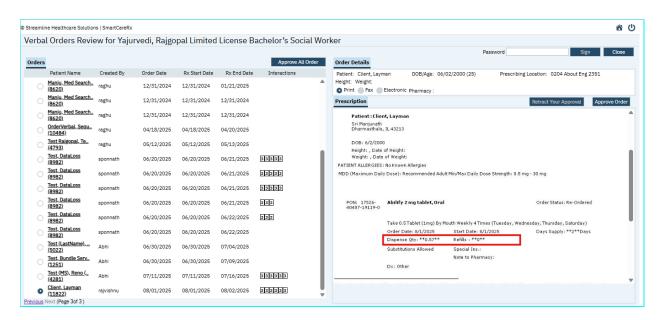
Verbal Order

- Instruction will be initialized based on medication prescribed which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for the Sig text in Prescription Section





- In the Prescription section, the Dispense Qty will be displayed as a new field under 'Order Date' and 'Refills' field is kept in the same row and moved it to the next column on the right (under 'Start Date')
- Screenshot for Dispense Qty in Verbal Order page

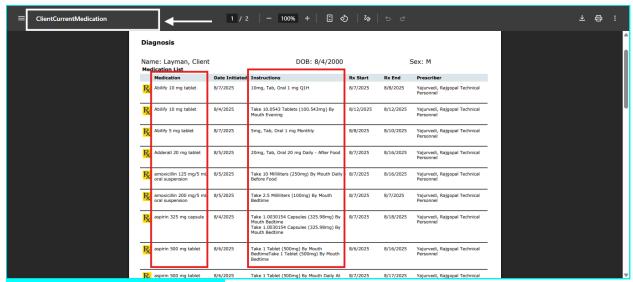


ClientCurrentMedication Report

Medication is displayed with its strength under the Medication column. 'Ex- Abilify 15 mg tablet'

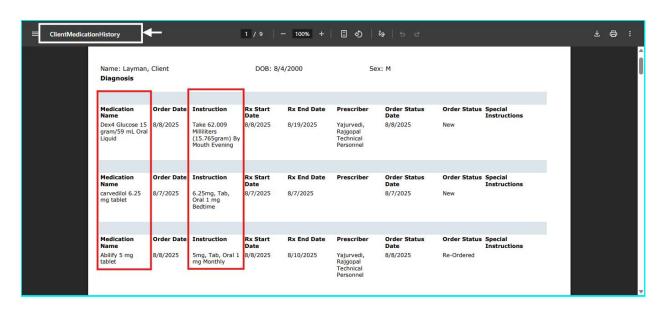
- Screen shot for Medication
- **Instructions** will be displayed based on medication present in Medication List which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for the Medication & Instructions





Client Medication History Report

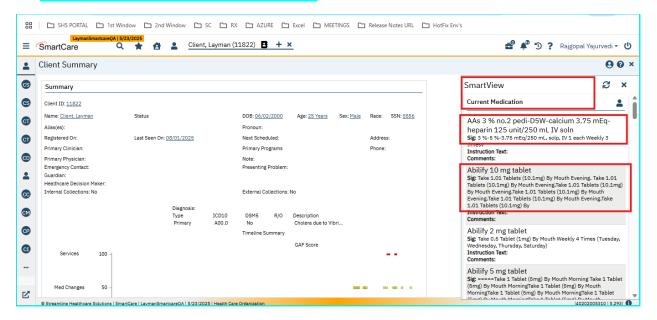
- Client Medication History report format will be in Landscape mode
- Columns will be displayed as follows in Client Medication History report: Medication Name, Order Date, Instruction, RX Start Date, RX End Date, Prescriber, Order Status Date, Order Status, Special Instructions
- When record or prescription has additional Order or multiple prescriptions, then first row will be displayed in report and other rows will be kept blank (Not displayed)
- Medication is displayed with its strength under the Medication Name column. 'Ex- Abilify 2 mg tablet'
- Forty characters will display in first line and 40 characters will be displayed in second line under the Medication Name column
- Screen shot for Client Medication History Report
- **Instruction** will be displayed based on medication present in Medication List which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Forty characters will display in first line and 40 characters will display in second line under the Instruction column
- Screenshot for Medication & Instruction





SmartView

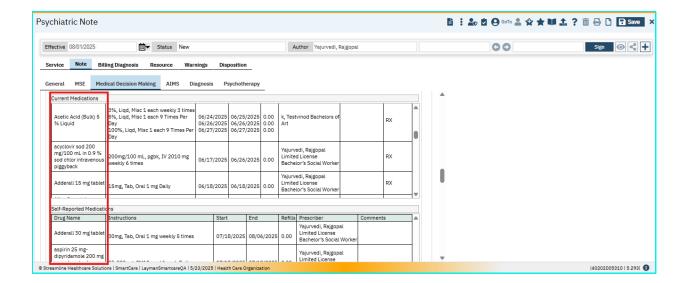
- Medication is displayed with its strength 'Ex- Abilify 10 mg tablet'
- **Instruction** will be displayed based on medication present in Medication List which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Sig information will be displayed in separate line below the medication information and start the line with 'Sig:'
- Screenshot for Medication and Instruction



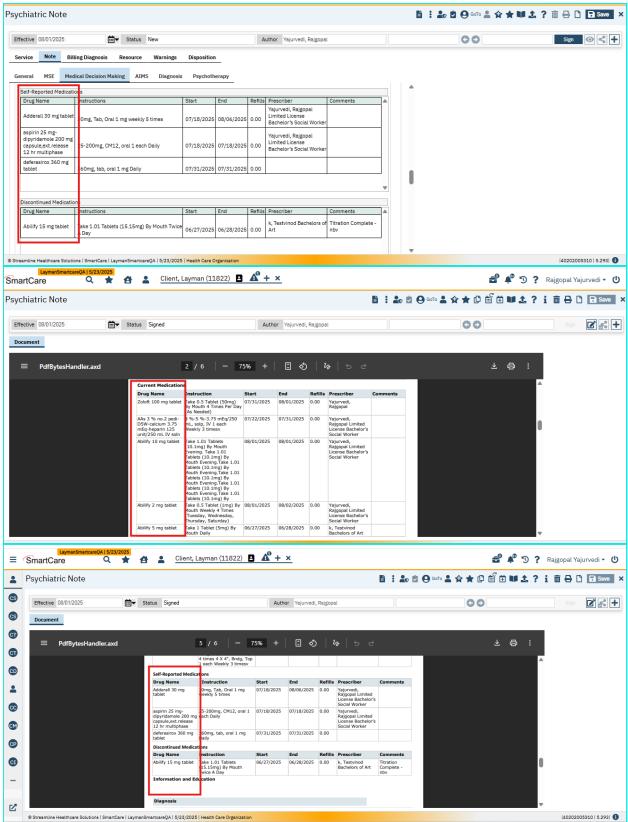
Psychiatric Note

Under the Note tab > Medical Decision Making Sub tab > In the Current Medications, Self-Reported Medications, Discontinued Medications—highlight in screenshot

- Medication is displayed with its strength from Prescribed Medication list, Non Ordered Locally and Discontinued medication list
- Screenshot for Medication in Application and PDF



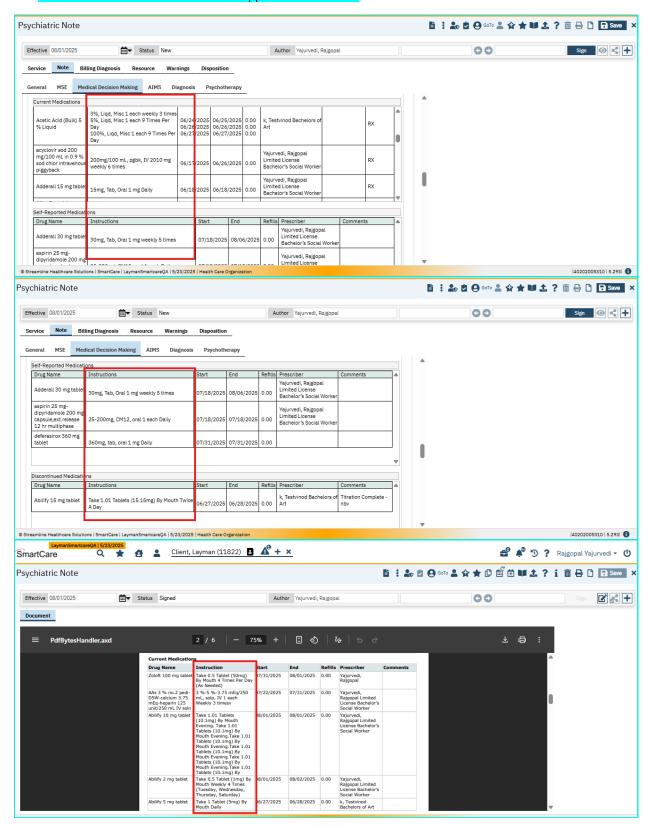




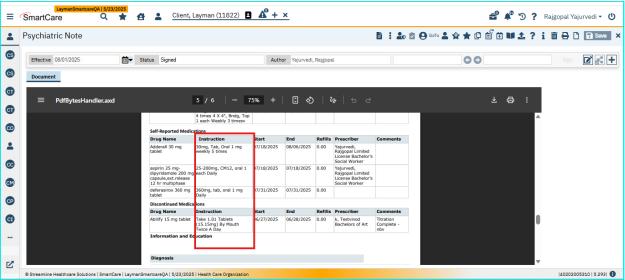
Instruction is displayed from Prescribed Medication list, Non Ordered Locally and Discontinued medication list which can be either the 'Layman's Terms' version or the 'Old Sig' version



Screenshot for Instruction in Application and PDF



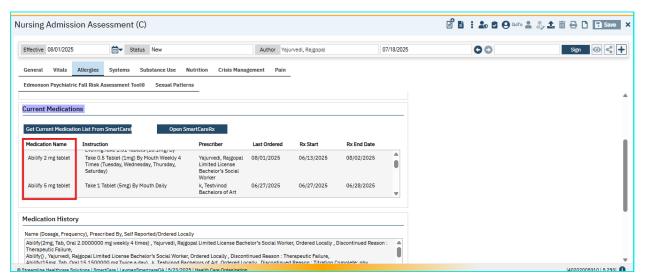




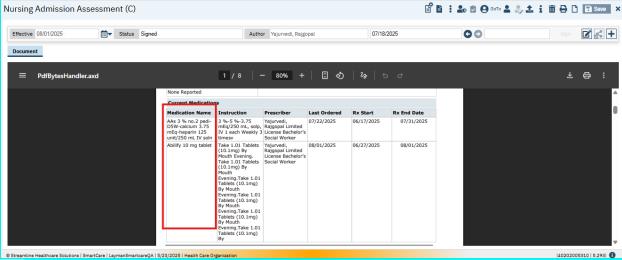
Nursing Admission Assessment (C)

Under Allergies tab> In the Current Medications, section

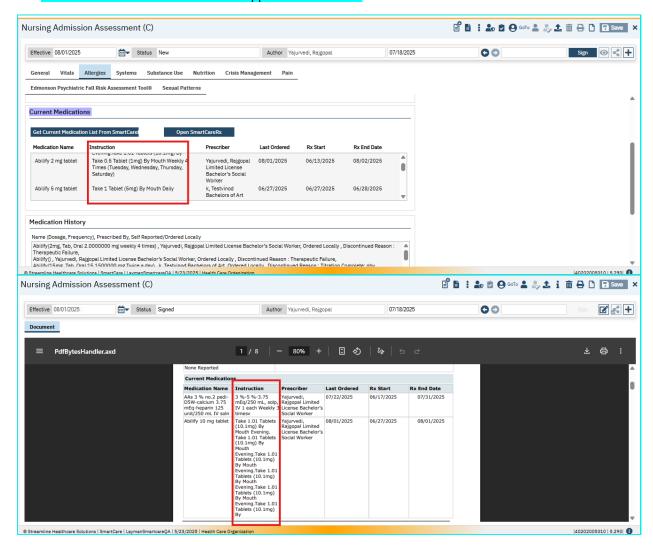
- Medication is displayed under the Drug Name with its strength.
 'Ex- Abilify 2 mg tablet' from Prescribed Medication list of Rx
- Screen shot for Medication in Application and PDF







- **Instruction** is displayed from Prescribed Medication list, Non Ordered Locally and Discontinued medication list which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for Instruction in Application and PDF

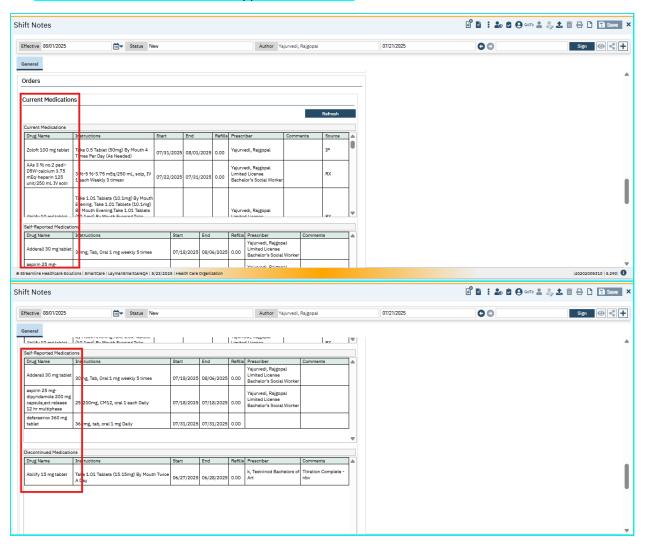




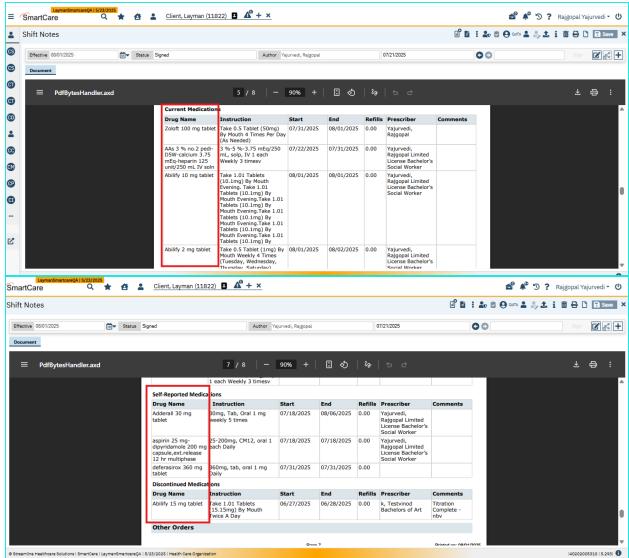
Shift Notes

Under the General tab > In the Current Medications, Self-Reported Medications, Discontinued Medications

- Medication is displayed with its strength from Prescribed Medication list, Non Ordered Locally and Discontinued medication list
- Screenshot for Medication in Application and PDF

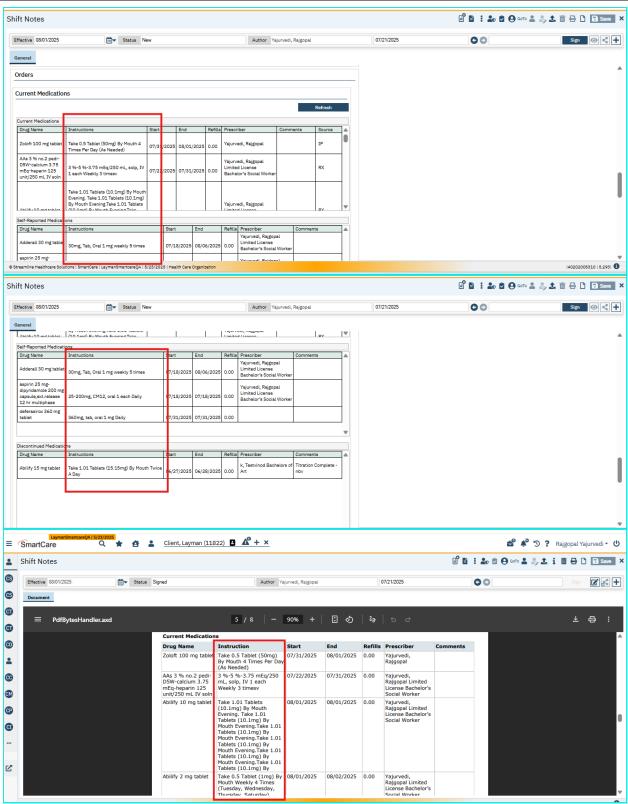




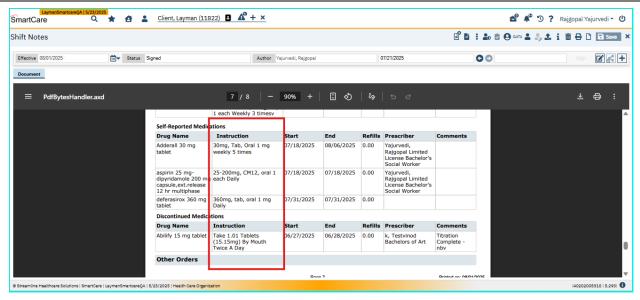


- **Instructions** are displayed from Prescribed Medication list, Non Ordered Locally and Discontinued medication list which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for Instruction in Application and PDF



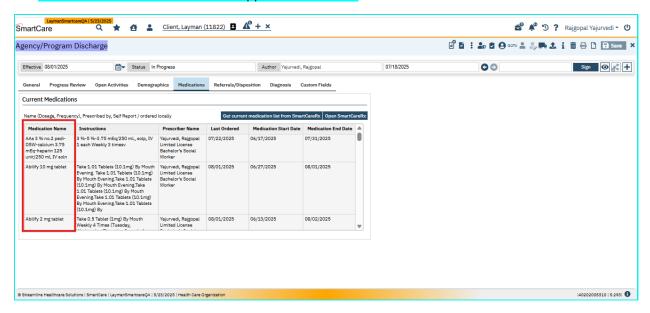




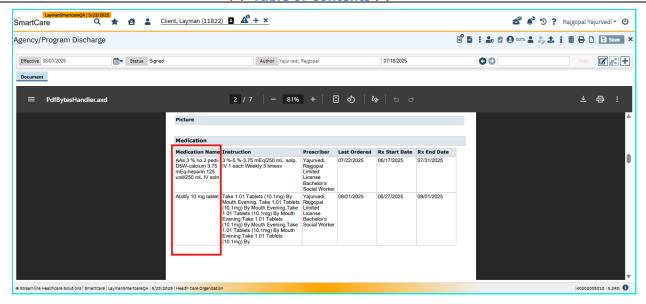


Agency/Program Discharge - medication and instruction can be added in one screenshot Under the Medication tab > In the Current Medications section

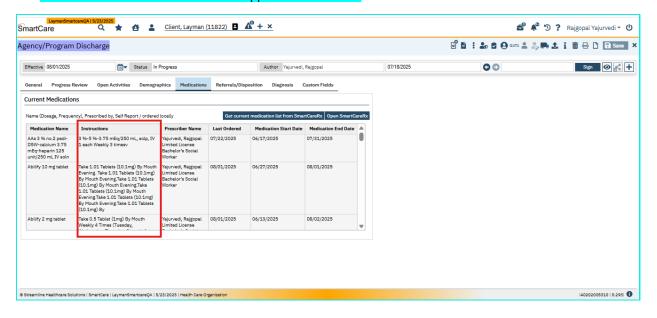
- Medication is displayed with its strength from Prescribed Medication list, Non Ordered Locally and Discontinued medication list
- Screenshot for Medication in Application and PDF



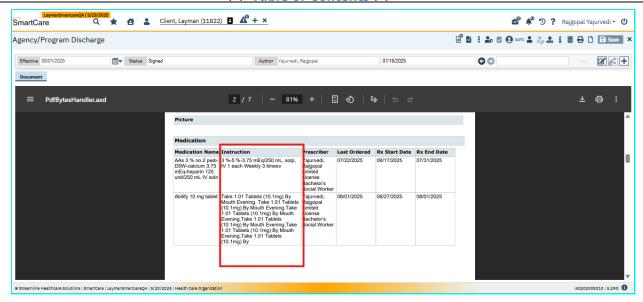




- **Instruction** is displayed from Prescribed Medication list, Non Ordered Locally and Discontinued medication list which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for Instruction in Application and PDF



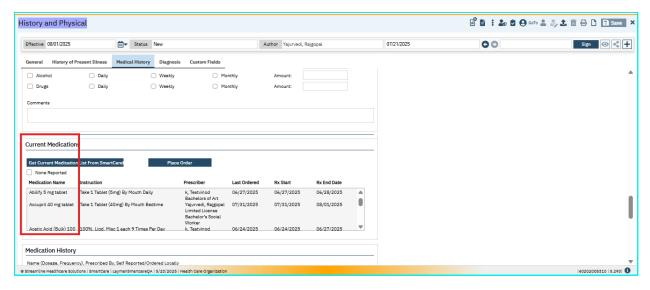




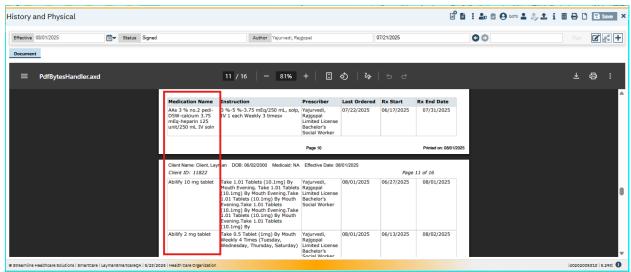
History and Physical

Under the Medication History tab > In the Current Medications sections

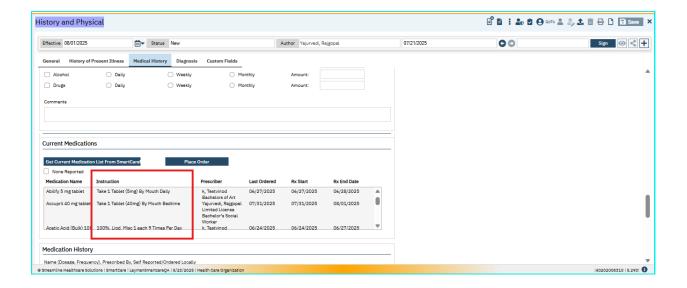
- Medication is displayed with its strength from Prescribed Medication list, Non Ordered Locally and Discontinued medication list
- Screenshot for Medication in Application and PDF







- Instruction is displayed from Prescribed Medication list, Non Ordered Locally and Discontinued medication list which can be either the 'Layman's Terms' version or the 'Old Sig' version
- Screenshot for Instruction in Application and PDF







Data Model Changes: Added below new tables:

MDClinicalNDCQuantities MDDrugPotencyAttributes MDClinicalFormulationStrenaths

MDMedicationConceptIngredients

Added column RouteAdverb in MDRouteDescriptions table

Added columns SigText, SigTextEdited, IsOldSigFormat in ClientMedicationScriptDrugs table

Added columns SigText, SigTextEdited, IsOldSigFormat in ClientMedicationScriptDrugsPreview table

Added columnQuantity in ClientMedicationInstructions table

Added column Quantity in ClientMedicationInstructionsPreview table.

Author: Manjunath Malipatil

<u>Feature#471462</u>: To enable Rx screens to auto-calculate total dose and to trigger weight-based overdose alerts requiring prescriber acknowledgment.

Note: This is an Active change. The purpose of this release is to implement a weight-based dosage calculator in the SmartCare Rx application for pediatric clients. It dynamically computes medication dosages using client weight and validates them against FDB-defined min/max thresholds. If the calculated dose exceeds the recommended maximum, a Dosage Acknowledgement popup is triggered, requiring prescriber confirmation. This feature enhances clinical safety by integrating configuration-driven logic, unit compatibility checks, and audit logging for high-dose overrides.

Release Type: Change | Priority: Urgent

Prerequisite:

- 1. The System configuration key "DisplayCDAGSectionInStaffDetails" value is set to Yes or No.
- **2.** The System configuration key 'EnableClinicalDataAccessGrouping' value is set to Yes or No.

Navigation Path when CDAG is OFF (DisplayCDAGSectionInStaffDetails and 'EnableClinicalDataAccessGrouping' values are set to "No"):

New Orders for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen



(Rx Application)-Click on New Order Button – Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button – if weight is modified Flow sheet entry should be created-- Check all the values entered in the pop up is initialized to the Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – Medication should be inserted.

Add Medication for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) – Click on Add Medication Button – In Add Medication (Not Ordered Locally) screen search and select a medication with (mg/ml) strength- enter Dose – Hover on the calculator icon.

Re-Order for Prescribe for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Medications – Click on Reorder Screen –In Re-Order Medication Order screen – Click on Prescribe Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – Prescribe screen

Re-Order for Queue Order for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Medications – Click on Reorder Screen –In Re-Order Medication Order screen – Click on Queue Order Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – medication should be queued for approval.

Re-Order for inserting medications for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Reorder Screen –In Re-Order Medication Order screen –- Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button --- if weight is modified Flow sheet entry should be created-- Check all the values entered in the pop up is initialized to the Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – Medication should be inserted.

Change Order for Prescribe for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Non-controlled Medications – Click on Change order Button –In Change Medication Order screen – Click on Prescribe Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – Prescribe screen

Change Order for Queue Order for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple non controlled Medications – Click on Change order Button –In Change Medication Order screen – Click on Queue Order Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – medication should be queued for approval.

Change Order for inserting medications for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Change order Button –In Re-Order Medication Order screen -- Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button -- – if weight is modified Flow sheet entry should be created-- Check all the values entered in the pop up is initialized to the



Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up appears – Check the check box in the Acknowledgement pop up and click on OK Button – Medication should be inserted.

New Order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application)-Click on New Order Button – Search for a medication – select a medication from the pop up – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Add Medications for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) – Click on Add Medication Button – In Add Medication (Not Ordered Locally) screen search and select a medication with (mg/ml) strength- enter Dose – Hover on the calculator icon.

Re-Order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Reorder Screen –In Re-Order Medication Order screen – Search for a medication – select a medication from the pop up – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Change Order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Change order Button –In Re-Order Medication Order screen -- Search for a medication – select a medication from the pop up – – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Note: CDAG ON functionality is implemented for a specific customer. If you have Primary and County types of setup and would like to use these functionalities, please get in touch with Streamline Support.

Navigation Path when CDAG is ON (DisplayCDAGSectionInStaffDetails and `EnableClinicalDataAccessGrouping' values are set to "Yes"):

New Order for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application)-Click on New Order Button – Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button – if weight is modified Flow sheet entry is not created -- Check all the values entered in the pop up is initialized to the Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not display and medication should be inserted.

Re-order for Prescribe for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Medications – Click on Reorder Screen –In Re-Order Medication Order screen – Click on Prescribe Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not display – Prescribe screen

Re-order for Queue Order for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Medications – Click on Reorder Screen –In Re-Order Medication Order screen – Click on Queue Order Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not display – medication should be queued for approval.

Re-order for inserting a new medication for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Reorder Screen –In Re-



Order Medication Order screen -- Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button -- if weight is modified Flow sheet entry should not be created-- Check all the values entered in the pop up is initialized to the Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not be displayed -- Medication should be inserted.

Change order for Prescribe button for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a multiple Non-controlled Medications – Click on Change order Button –In Change Medication Order screen – Click on Prescribe Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not appear – Prescribe screen

Change order for Queue Order button for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) – Select a multiple non controlled Medications – Click on Change order Button – In Change Medication Order screen – Click on Queue Order Button --- If any medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not appears – medication should be queued for approval.

Change order for inserting a new medication for client aged below 18yrs: Login to SmartCare Application – Search and select a client under 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Change order Button –In Re-Order Medication Order screen -- Search for a medication – select a medication from the pop up – check the Calculator icon is displayed (Calculator icon is displayed only when the criteria is met) – Click on Calculator icon – Weight based calculator pop up – enter all the required fields – Click on Apply Button -- if weight is modified Flow sheet entry should not be created-- Check all the values entered in the pop up is initialized to the Application – Click on Insert Button – If the Medication dosage exceeds the maximum recommendation Dosage Acknowledgement Pop up should not appear –- Medication should be inserted.

New Order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application)-Click on New Order Button – Search for a medication – select a medication from the pop up – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Add Medication for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) – Click on Add Medication Button – In Add Medication (Not Ordered Locally) screen search and select a medication with (mg/ml) strength- enter Dose – Hover on the calculator icon.

Re-order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Reorder Screen –In Re-Order Medication Order screen –- Search for a medication – select a medication from the pop up – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Change Order for client aged above 18yrs: Login to SmartCare Application – Search and select a client above 18 years – Client Information screen – Search for Medication Management (Client) – Patient Summary screen (Rx Application) –Select a Medication – Click on Change order Button –In Re-Order Medication Order screen -- Search for a medication – select a medication from the pop up – – if the selected medication has mg/ml strength the calculator icon is displayed – hover on the calculator icon – check mg to ml conversion in the tooltip.

Functionality 'Before' and 'After' release:

Before this release, the doses were not calculated for the selected medication based on the Client weight, and if the dose entered exceeds the Recommendation dosage the system was not alerting the user on the medication with high dosage being prescribed.



With this release, Weight based dose calculator is implemented which calculates the dose ranges for the medication based on weight of client.

The following icon is the Weight based Dose calculator.



Weight based Dose Calculator icon will be displayed in between Unit Field and Frequency field in the following Order screens.

- New Medication Order
- Re-Order Medication Order
- Add Medication (Not Ordered Locally)
- · Change Medication Order

Weight based Dose Calculator will be accessible for those medications which meets all the below criteria.

• "FDB minimum and maximum dose recommendation must be available for the selected medication. The client's age must fall within the range specified by MinimumAgeInDays and MaximumAgeInDays in the MDPediatricDosageRanges table, which applies only to **clients under 18 years of age."**

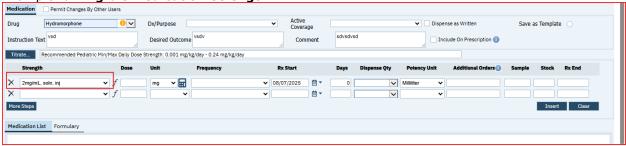
Note1: The Selected client age will be considered in days, and the age must fall within the range specified by MinimumAgeInDays and MaximumAgeInDays in the MDPediatricDosageRanges table.

- For paediatric dosage calculations, the medication unit (PDM_UNDESC) must be one of the following:
 - 1. mg/kg/day
 - 2. mcg/kg/day
 - 3. mEq/kg/day
 - 4. g/kg/day

Note2:

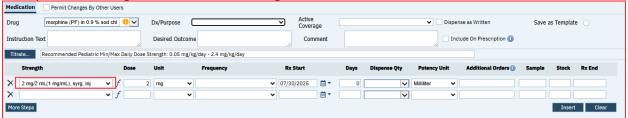
- 1. unit/kg/day is **excluded** as such medications are prescribed in each unit.
- 2. mL/kg/day is **excluded** because there is no medication which uses this Unit in the FDB (First Data Bank).
- The 'Strength' field must have a numeric value, while the 'StrengthUnitOfMeasure' field should be restricted to alphabetic characters, numerals, periods, and slashes (a-z, A-Z, 0-9, /). This constraint is intended to exclude entries such as percentage-based strengths, calculated strengths involving brackets, unit conversions (e.g., grams to molars), strength ranges or units expressed as ranges, and values derived from calculated tables."

Example for Eligible Medication Strength





Example for Not eligible Medication Strength



If all the above-mentioned criteria are met, then only Weight based dose calculator icon will be displayed between Unit and Frequency field.

• The **Dose Calculator** will not be available for medications where the **strength is listed as mmol/mL**, even if the **minimum and maximum dosage** is provided in **mg/kg/day**.

This is to ensure that dose calculations are only supported when the units are compatible.

• The **Dose Calculator** is not available for medications where the **volume** unit is listed as **Liter (L)**, and the potency unit **is Millilitre (mL)**.

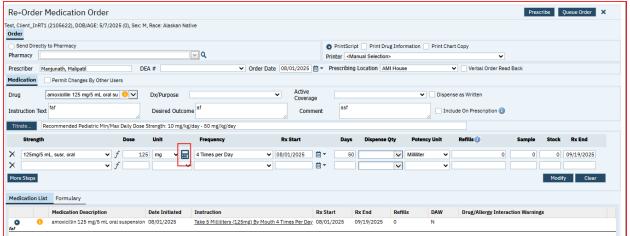
This restriction ensures accurate dose calculations by preventing incompatible unit combinations.

If the Unit field is blank, Calculator icon will be hidden and will be displayed only when the user selects
the unit.

Below Screen shots refers to the Calculator icon in the order screens

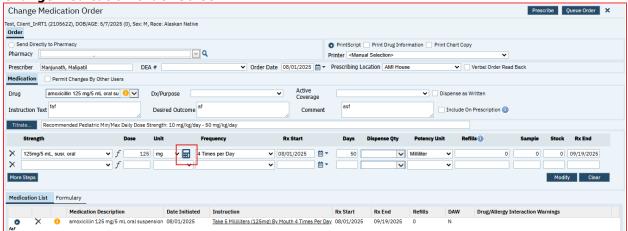
New Medication Order Screen: Streamline Healthcare Solutions | SmartCareRx 🥬 📸 😃 New Medication Order Test, Client_InRT1 (2105622), DOB/AGE: 5/7/2025 (0), Sex: M, Race: Alaskan Native Order Send Directly to Pharmacy PrintScript Print Drug Information Print Chart Copy Pharmacy Printer <Manual Selection> Medication Permit Changes By Other Users Active Coverage Drug Morphine 0 ✓ Dx/Purpose ▼ Dispense as Written Save as Template Titrate... Recommended Pediatric Min/Max Daily Dose Strength: 0.025 mg/kg/day - 1.6 mg/kg/day ➤ 5mg/mL, soln, inj **√** f 5 mg ✔ 08/01/2025 🛗 ▼ ✓ Milliliter × # →

Re-Order Medication Order Screen:

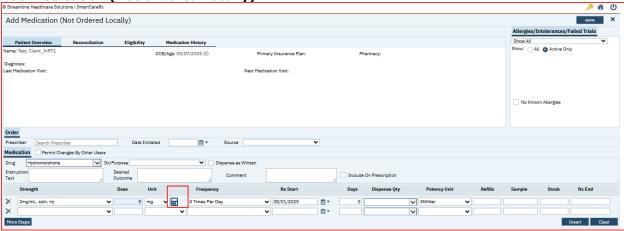




Change Medication Order Screen:



Add Medication (Not Ordered Locally)



- if all required criteria are not met, but the selected Medication Strength is in mg/mL format, then system will still display the Calculator icon to the user.
- The icon will not be clickable, meaning the user cannot click it or access the Weight-Based Calculator popup.
- When the user hovers over the icon, a tooltip should appear displaying the exact mg to mL calculation without rounding.

The mg to mL hover calculation is calculated using below formula.

Number of mLs = (Dose in mg/Strength in mg) x Strength in mL Hover Calculation Example:

Below is the example of how the hover calculation is calculated using the formula.

Strength: 10mg/5mL; Dose: 5; Unit: mg; Potency Unit/Form: mL

Given: Strength and Dose; Unknown: Number of mLs

Number of mLs = (Dose in mg/Strength in mg) x Strength in mL

Number of mLs = $(5mg / 10mg) \times 5 mL$

Number of mLs = $(0.5) \times 5 \text{ mL}$

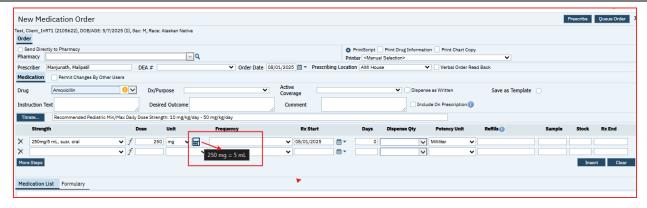
Number of mLs = 2.5 mL

Hover Format: <Dose> mg = <Number of mLs> mL

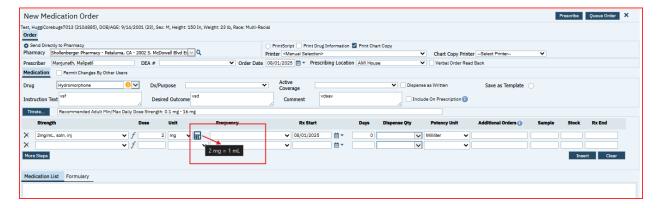
Example: 5 mg = 2.5 mL

- When a medication has both **mg** and **mL** units, only the **mg value** is converted to **mL** in the hover tooltip.
 - System will not convert from **mL to mg**.
- When the selected medication is in mg/ml format (e.g., 10mg/mL, 5mg/5mL, 10mg/5mL), mg will be the default unit selected, and ml is removed from the Unit drop down.





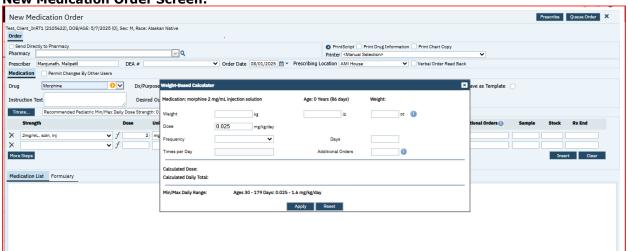
Note: if the selected client is more than 18 years and the selected medication strength is mg/ml the weight-based dose calculator icon will be displayed, and hover functionality will be displayed. And the icon will not be clickable i.e., dose calculator pop will not be accessible.



 Clicking on Weight based dose calculator icon a Weight-Based Calculator Popup should appear in the following screens.

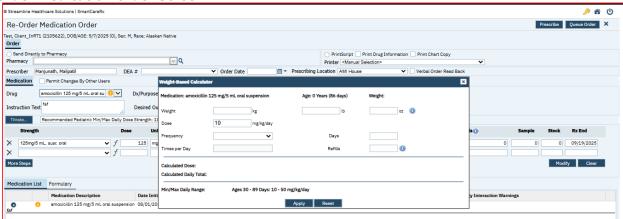
Note: Weight-Based Calculator Popup will not be accessible in the Add Medication (Not Ordered Locally) screen. Only hover Functionality will be available in the screen.

New Medication Order Screen:

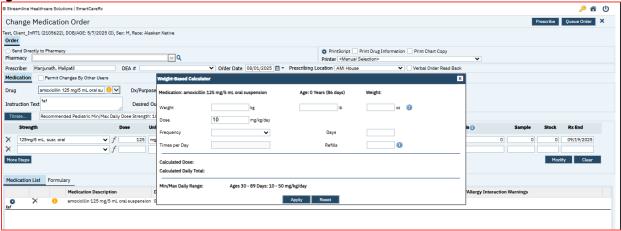




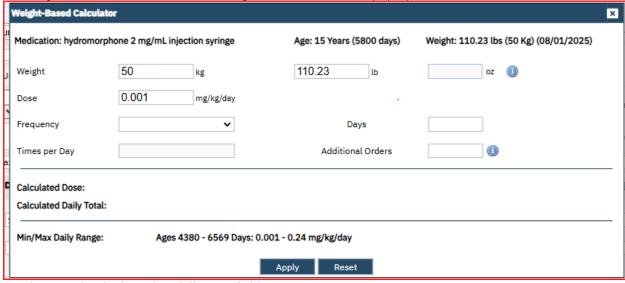
Re-Order Medication Order Screen:



Change Medication Order Screen:



The following screen shot stands for the Weight-Based Calculator pop up.



The Weight-Based Calculator has following fields.

Medication: This is read only field and is displayed in Bold, and the medication name is displayed in the below format.



Format: Name Strength Form (Form is also known as Potency Unit)

Example: lorazepam 4 mg/mL injection solution

Age: This is read only field and is displayed in Bold, the age of the client is displayed in days after the years.

Format: xx Years (XXXX days) Example: 15 Years (5800 days)

Weight: This is the read only field and is displayed in Bold, the data for this field is pulled from the most recent vital flow sheet.

If the Client does not have weight this field will be blank.

The client weight will be displayed in the lbs and is followed by calculation in (kg (Rounded to nearest hundredth) and is followed by (Date of most recent Vitals flow sheet)

Example: 110.23 lbs (50 Kg) (08/01/2025).

- > Weight: This field has 3 Numeric value textboxes with "kg", "lb", and "oz" footer labels
 - the system displays the client's latest weight from the most recent Flow Sheet.
 - If Client weight is not available, the fields will be blank, and the user will be allowed to input weight manually.

The system will accept values in lb, oz, and kg.

• When the user updates lb and/or oz, the system will auto-calculate the weight in kg.

Kg calculates as follows,

Step 1: Check the Ounces Field

- If there's a Value in the **oz (ounces)** field, divide it by 16 to convert it to pounds.
- If the oz field is empty or zero, skip to Step 2.

Step 2: Add to Pounds

- Take the result from Step 1 and add it to the number in the **lb. (pounds)** field.
- This gives you the total weight in pounds.

Step 3: Convert to Kilograms

- Divide the total pounds by **2.205** to get the weight in kilograms.
- This is your final **kg (kilograms)** value.

Example

- oz = 8
- lb. = 2

Then:

- $8 \div 16 = 0.5$
- \bullet 0.5 + 2 = 2.5
- $2.5 \div 2.205 = 1.1337$

Final kg = 1.1337

• When the user updates the kg field, the oz field will be disabled and greyed out and system will not consider oz when converting kg to lb.

The system will convert kg to lb by multiplying by 2.205.

- If the user enters a decimal in the lb field, the oz field will be disabled and cleared. The system will then calculate and display the equivalent weight in kg.
- If the user enters oz without a value in lb and clicks Apply, an error will appear. The system will show: "Please update 'lb' field."



ledication: nydromo	rphone 4 mg/mL ir	njection syringe	Age: 15 Years (5803 days)	Weight: 110.23 lbs (50 Kg) (08/01/2025)
Veight	0.0000	kg	lb lb	6 oz (1)
Dose	0.001	mg/kg/day	Please update 'lb' field.	
requency		~	Days	
Times per Day			Additional Orders	0

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 If the user clicks on Apply button without entering the Weight in Kg below message will be displayed.

Message: Please Input Valid Weight kg. Weight-Based Calc Medication: hydromorphone 2 mg/mL injection solution Age: 15 Years (5806 days) Weight: 61.73 lbs (28 Kg) (08/05/2025) Weight 0.0000 Dose Please input valid weight kg. Frequency Days Times per Day Additional Orders Calculated Dose: Calculated Daily Total: Min/Max Daily Range: Ages 4380 - 6569 Days: 0.001 - 0.24 mg/kg/day Apply Reset

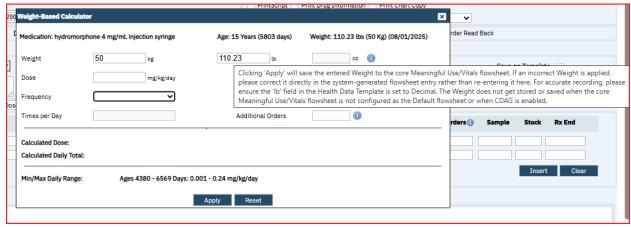
Note:

- If the user updates the Weight field and CDAG is turned off, clicking "Apply" new Core Meaningful Use Vitals Flow Sheet entry will be created.
- If the Weight field is not modified or CDAG is turned on, clicking on "Apply" button will not create a Core Meaningful Use Flow Sheet entry. No new data will be pushed to the Weight field in this case.
- If the value of the configuration key 'FLOWSHEETDEFAULTTEMPLATE' is other than 110, even though the weight is updated or modified in the dose calculator pop up, new Core Meaningful Use Vitals Flow Sheet entry will not be created.
- > Information Icon (next to Weight field): when the user mouse hovers on the information icon next to the weight field following message will be displayed.
- A new Configuration key `ShowRXWeightBasedCalculatorWeightToolTip' is implemented. By default, the below value entered in the Key will be displayed in the tooltip, and the customer can customize the message using the Configuration Key value.

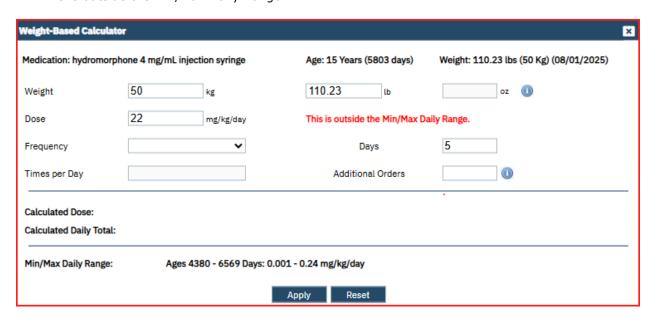


Clicking 'Apply' will save the entered Weight to the core Meaningful Use/Vitals flowsheet. If an incorrect Weight is applied, please correct it directly in the system-generated flowsheet entry rather than re-entering it here. For accurate recording, please ensure the 'lb' field in the Health Data Template is set to Decimal. The Weight does not get stored or saved when the core Meaningful Use/Vitals flowsheet is not configured as the Default flowsheet or when CDAG is enabled.

Based on the value of the Configuration key the message will be displayed



- Dose: This is the required field.
 - If the medication strength unit (MED_STRENGTH_UOM) is mg, the system will display mg/kg/day for the Dose field.
 - If the unit is mcg, the footer label will show mcg/kg/day for the Dose field.
 - If the unit is mEq, the label will read mEq/kg/day for the Dose field.
 - If the unit is q, the label will show q/kg/day for the Dose field.
 - If the entered Dose is outside the Min/Max Daily Range, the system will show a red bold message: "This is outside the Min/Max Daily Range."

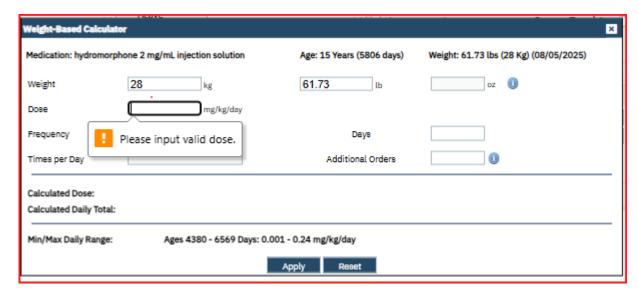


• For hour-based medications like "Xmg/12hr" or "Xmcg/24hr", only the mg or mcg value will be considered, not the hour.



- If the Min/Max Range is in mg/kg/day but the Dose is in g or mcg, the system will convert the Dose to mg before comparison.
- The Dose field will support up to 8 digits including a decimal, e.g., 4050.555
- If the user clicks on Apply Button without adding Dose field below message will be displayed.

Message: Please Input Valid dose.



- Frequency: This is the single select drop-down field. This is same as Frequency drop down in the Order screen. The values will be displayed from the Global Code Category "MEDICATIONSCHEDULE"
 - Upon clicking 'Apply', the system will update the Frequency field in the Order screen with the value selected from the dropdown. This ensures the chosen frequency is saved and reflected in the Medication Order screen.
 - If the user clicks on Apply button without selecting the Frequency below message will be displayed.

Message: Please Select Frequency.

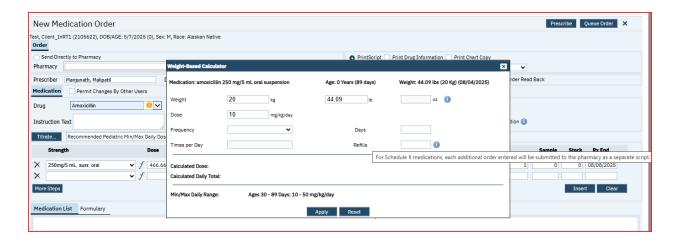
	ACTIVE							
Weight-Based Calculator ×								
Medication: hydromorphone 2 mg/mL injection solution		Age: 15 Years (5806 days) Weight: 61.73	3 lbs (28 Kg) (08/05/2025)					
Medication: hydromo Weight	28 · kg	61.73	oz 🕕					
Dose	2 mg/kg/day	This is outside the Min/Max Daily Range.						
Frequency	$\overline{\hspace{1cm}}$	Days]					
Times per Day	Please select Frequency.	Additional Orders	0					
Calculated Dose:								
Calculated Daily Total:								
Min/Max Daily Range: Ages 4380 - 6569 Days: 0.001 - 0.24 mg/kg/day								
Apply Reset								

Days: This is the Numeric text field



- Upon clicking 'Apply', the system will update the Days field in the Order screen with the numeric value entered by the user. This ensures the chosen days is saved and reflected in the Medication Order screen.
- Times Per Day: This is Display only text field.
 - When the user selects a value in the Frequency dropdown, the system will automatically load the mapped Value linked to that frequency.
- > **Refills / Additional Orders:** This is the numeric Value text field.
 - The label next to the Dose field will change based on the same logic used in the Rx app.
 - If the medication is a controlled substance, the label will switch from Refills to Additional Orders.
 - If the medication in the Weight-Based Calculator is a controlled substance, the label will display Additional Orders.
 - If the medication is not a controlled substance, the label will display Refills.
- Information Icon (Next to 'Refills' / 'Additional Orders'): when the user mouse hovers on the information icon next to Refills / Additional Orders field, following message will be displayed based on the value set in the new Configuration key 'ShowRXWeightBasedCalculatorRefillsToolTip'
 - A new Configuration key 'ShowRXWeightBasedCalculatorRefillsToolTip' is implemented. By default, the below value entered in in the key will be displayed in the tooltip, and the customer can customize the message using the Configuration Key value.

For Schedule II medications, each additional order entered will be submitted to the pharmacy as a separate script.



- Calculated Dose: This is Read only field.
 - The system will display all calculated values in bold for better visibility
 - As the user enters required fields, the system will auto-calculate the calculated dose using the below formula.

Units per Dose = $(Dose \times kg) \div Times Per Day$

Potency Units per Dose = (Dose \times kg) \div Times Per Day \div Strength

Example1:

Methadone 10mg/mL; Weight: 100kg; Dose: 0.5mg/kg/day; Times Per Day: 2

- \rightarrow 0.5 × 100 = 50mg/day
- \rightarrow 50 ÷ 2 = 25mg per dose
- \rightarrow 25 ÷ 10 = 2.5mL per dose



The system will display the calculated dose as:

<Number of Potency Units per Dose> <Potency Unit> (<Number of Units per Dose> <MED_STRENGTH_UOM>) per Dose at <Frequency>

Example2:

Capsules (80 mg) per Dose at Twice Daily

• If the number of Potency Units per Dose is more than 1, the system will add an "s" to the Potency Unit.

Example: Capsules instead of Capsule.

The first letter of the Potency Unit will be capitalized.

Example: Tablet, Capsule, etc.

- On clicking Apply button, the system will update the Dose field in the Rx application with the calculated Units per Dose.
- For medications labelled as mg iron or mg calcium, the system will remove the extra text and display only mg.
- > Calculated Daily Total: This is Read only field.
 - The system will display all calculated values in bold for better visibility
 - As the user enters required fields, the system will automatically calculate:

Units per Day = Dose \times kg

Potency Units per Day = $(Dose \times kg) \div Strength$

Example:

Methadone 10mg/mL; Weight: 100kg; Dose: 0.5mg/kg/day

- \rightarrow 0.5 × 100 = 50mg/day
- \rightarrow 50 ÷ 10 = 5mL/day
- The calculated dose will be shown as:

Total <Number of Potency Units per Day> <Potency Unit> (<Number of Units per Dose> <MED_STRENGTH_UOM>) per Day.

Example: Total 4 Capsules (160 mg) per Day

• If the number of Potency Units is more than 1, the system will add an "s" to the Potency Unit.

Example: Capsules instead of Capsule

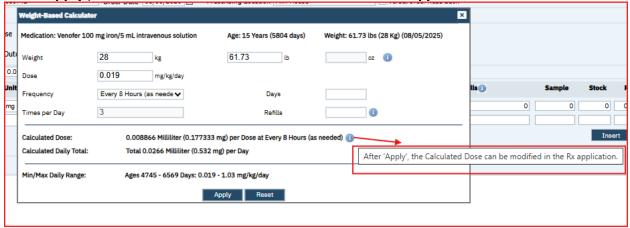
The first letter of the Potency Unit will be capitalized.

Example: Tablet, Capsule etc.

- For medications labelled as mg iron or mg calcium, the system will remove the extra text and display only mg.
- > Information Icon (Next to Calculated Dose): when the user mouse hovers on the information icon next to Calculated Dose field, following message will be displayed based on the value set in the a new Configuration key 'ShowRXWeightBasedCalculatorDosageToolTip'
 - A new Configuration key 'ShowRXWeightBasedCalculatorDosageToolTip is implemented. By default, the below value entered in the Key will be displayed in the tooltip, and the customer can customize the message using the Configuration Key value.



After 'Apply', the Calculated Dose can be modified in the Rx application.



- Min/Max Daily Range: This is Read only field.
 - The system will initialize the **Min/Max Daily Range** data provided by **FDB**. For paediatric clients (under age 18), system will only display the range that matches the client's **age in days**.
 - Example: If the client is 750 days old, only the range labelled **600–850 days** from FDB will be shown.
- > **Apply:** Response type is Button.
 - If the user modifies the Weight field and CDAG is off, clicking Apply button will create a new Core Meaningful Use/Vitals Flow Sheet Entry with the current date and time.
 The system will push the updated weight (lb, kg, oz) to this entry, even if a custom flowsheet is used. If the Health Data Template defines lb as Numeric, only whole numbers will be saved.
 - If the **Weight** field is unchanged or **CDAG** is **on**, clicking **Apply** will **not** create a new Core Flow Sheet entry.
 - On clicking Apply, the system will update the Dose field in the Rx application using the formula:
 Dose × kg ÷ Times Per Day = Number of Units per Dose
 - The **Frequency** field in the Rx application will be updated to match the value selected in the popup. This will also auto-update the associated **Times Per Day**.
 - The **Days** field in the Rx application will be updated with the value entered in the popup. If no value is entered, the field will remain blank for manual input.
 - The **Refills** field in the Rx application will be updated with the value entered in the popup. If no value is entered, the field will remain blank for manual input.
 - After clicking Apply, the user will be navigated back to the respective Order screen in the Rx application.
 If the user repeats the Weight-Based Calculator, the most recent weight will be initialized, and

If the user reopens the Weight-Based Calculator, the most recent weight will be initialized, and other fields will reset to their original default values.

Note: These popup values will populate in the Rx application fields, but the user must still click **Insert** on the main Rx screen to finalize and insert the data into the **Medication List**.



• **Reset:** On clicking 'Reset', the system will clear all editable fields in the popup. This allows the user to start fresh without manually removing any entered values.

A new **Alert** is implemented that will be triggered during prescription entry in the Rx Application in the Order screens when the selected medication dosage exceeds the maximum recommended dose based on the client's weight. This alert will require an explicit acknowledgement by the prescriber or staff before inserting the medication in the Order screens.

- When the user clicks the 'Insert' button. System will check if FDB Max Daily Dose Strength is available for the medication and Client Weight is available from the most recent Core Meaningful Use/Vitals flowsheet or not.
- If either FDB Max Daily Dose Strength or Client Weight is not available, system will insert the medication into the Medication List without showing the Dose Acknowledgement popup.
- If both FDB Max Daily Dose Strength and Client Weight are available, system will calculate the Daily Dose.

Daily Dose Amount will be calculated as: (Dose / Weight in kg) x Times Per Day

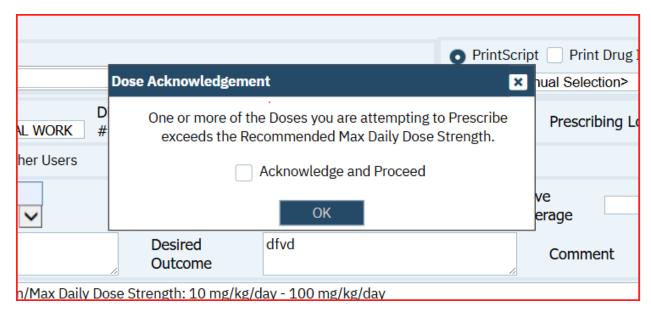
- If Daily Dose Amount exceeds FDB Max Daily Dose Strength, system will show the Dose Acknowledgement popup.
- If Daily Dose Amount is within FDB Max Daily Dose Strength, system will insert the medication into the Medication List without showing the popup.

Note: If CDAG is turned ON, system will not show the Dose Acknowledgement popup regardless of dose calculations.

- System will be performing these checks every time the user clicks the 'Insert'/ Modify button in the order screens
- In Reorder and Change Order screen when the user clicks on Queue order button the system will check
 if FDB Max Daily Dose Strength is available for the medication and Client Weight is available from
 the most recent Core Meaningful Use/Vitals flowsheet or not. As mentioned above. And dose
 Acknowledgment pop up triggered if all the criteria is met.
- Once the Dose acknowledgement is obtained for the high dose medication the medication will be Queued for the approval.
- In Reorder and Change Order screen when the user clicks on Prescribe button the system will check
 if FDB Max Daily Dose Strength is available for the medication and Client Weight is available from
 the most recent Core Meaningful Use/Vitals flowsheet or not. As mentioned above. And dose
 Acknowledgment pop up triggered if all the criteria is met.
- Once the Dose acknowledgement is obtained for the high dose medication the user is redirected to the prescribe screen.



The following screen shot refers to the Acknowledgement pop up:



Dose Acknowledgement pop up should have following Message and should be clearly readable.

One or more of the Doses you are attempting to Prescribe exceeds the Recommended Max Daily Dose Strength.

- Acknowledge and Proceed: This is the check box field and center aligned.
 - This is the required field, and Ok Button will not be enabled unless this checkbox is checked.
 - When the user checks the 'Acknowledge and Proceed' checkbox and clicks 'OK' to override the dosage alert,

Ok Button:

- The 'OK' button will be disabled by default.
- When the user checks the 'Acknowledge and Proceed' checkbox, the system will enable the 'OK' button.
- When the user clicks the 'OK' button:
 - For Re-Order/Change Order, the system will continue with prescribing.
 - For a New Order, the system will insert the medication(s) into the Medication List.
- The system will also insert a record into the **StaffClientAccess** table for audit log purposes and capturing the user's identity, timestamp for acknowledging the high dosage medication prescription.

• X button (Cancel Action):

- If the user clicks the 'X' (close) button instead of checking the checkbox and clicking 'OK':
- The system will return the user to the previous screen.
- The system will not proceed with prescribing (for Re-Order/Change Order).
- The system will not insert the medication(s) into the Medication List (for New Order).

Note: If the value of the configuration key 'FLOWSHEETDEFAULTTEMPLATE' is other than 110, dosage acknowledgement pop up will not be triggered while prescribing a high dose medication

Data Model Changes:

- 1. A new Global code category called 'ClientMedAckTypes 'has been Implemented. 'High Dosage' is the name of Global code under this category.
- 2. Following new tables are created as a part of this enhancement.
 - 2.1. ClientMedicationAcknowledgements
 - 2.2. ClientMedicationAcknowledgementsPreview



Glossary of System Configuration Keys, Global Codes, Recodes, Data Model Changes

System Configuration Keys

141.DisplayCDAGSectionInStaffDetails

141.EnableClinicalDataAccessGrouping

141.FLOWSHEETDEFAULTTEMPLATE

141.ShowRXWeightBasedCalculatorWeightToolTip

141.ShowRXWeightBasedCalculatorRefillsToolTip

 $\underline{141.ShowRXWeightBasedCalculatorDosageToolTip}$

Global Codes

141. MEDICATIONSCHEDULE

141. ClientMedAckTypes

Data Model Changes

140. SigText and SigTextEdited columns are added to the ClientOrders table.

141. MDClinicalNDCQuantities

141. MDDrugPotencyAttributes

141. MDClinicalFormulationStrengths

141. MDMedicationConceptIngredients

141. Added column RouteAdverb in MDRouteDescriptions table

141. Added columns SigText, SigTextEdited, IsOldSigFormat in ClientMedicationScriptDrugs table

141. Added columns SigText, SigTextEdited, IsOldSigFormat in ClientMedicationScriptDrugsPreview table

141. Added column Quantity in ClientMedicationInstructions table

141. Added column Quantity in ClientMedicationInstructionsPreview table

141. ClientMedicationAcknowledgements

141. ClientMedicationAcknowledgementsPreview