

7/15 Follow-Up

Updates

☑ Updated **Progress note** in **NewConsult** userform to reflect changes with CrCl calculation

Bug Fixes - Details and screenshots below **Next Steps**

1. Switched numeric to text data type for Room property
2. Fixed 'No Load' behavior bug
3. Fixed bug where lab times were not being deleted from **PatientList** userform

Next Steps

- ☐ **PostLevels**: Levels/Labs helper after inputting levels
- ☐ **PatientList**: Day of therapy / Timeout to Patient List
- ☐ **User Guide**: Edit guide to update information
- ☐ **NewConsult**: Add "Transfer to DMC Calculator" for **New Consult** userform

Details and Screenshots of updates

☑ Updated **Progress note** in **NewConsult** userform to reflect changes with CrCl calculation

1. Actual Body Weight (ABW) < Ideal Body Weight (IBW) Example

The screenshot shows the 'NewConsult' userform with the 'Progress Note' tab selected. The form is divided into sections: Health Status, Results Review, Assessment, and Plan. The 'Results Review' section contains patient data and a red box highlighting the 'Actual Body Weight (ABW) < Ideal Body Weight (IBW) Check' section. A speech bubble points to this section with the text 'new language for ABW/TBW < IBW'.

1. Pt Info | 2. Kidney Function | 3. LD | 4. Vd | 5. CLVanco | 6. MD | 7. Levels / Labs | 8. Progress Note

Progress Note

Update Progress Note

Create Monitoring Form

Health Status

Patient is a 36 year old male who started vancomycin on 07/15/2020. The pharmacokinetic service is being consulted for vancomycin dosing and monitoring.

Results Review

Height (cm): 160.9 cm
Weight (kg): 37.3 kg
SCr (mg/dL): 1.4 mg/dL
Estimated Renal Function: CrCl 38.5 mL/min

1 Actual Body Weight (ABW) < Ideal Body Weight (IBW) Check:
-- Patient's TBW/IBW: 0.65
-- Patient's BMI: 14.4
-- Patient's ABW: 37.3 kg
-- Patient's IBW: 57.7 kg
-- Used ABW of 37.3 kg instead of 57.7 kg for CrCl Calculation

Assessment

Day of Therapy: 1
Duration of therapy per treating prescribers
Ordering Physician: Stephen Hawking
Suspected Indication: Bacteremia

Plan

new language for ABW/TBW < IBW

VBA Code:

```

' TBW < IBW Check
If pt.char.TBW < pt.char.IBW Then
    str = addLine(str, "Actual Body Weight (ABW) < Ideal Body Weight (IBW)
Check:")
    str = addLine(str, "-- Patient's TBW/IBW: " & pt.char.TBW_IBWRounded)
    str = addLine(str, "-- Patient's BMI: " & pt.char.BMIRounded)
    str = addLine(str, "-- Patient's ABW: " &
pt.char.TBWRoundedWithDescriptor)
    str = addLine(str, "-- Patient's IBW: " &
pt.char.IBWRoundedWithDescriptor)
    str = addLine(str, "-- Used ABW of " & pt.char.TBWRoundedWithDescriptor
& " instead of " & pt.char.IBWRoundedWithDescriptor & " for CrCl calculation")
End If

```

2. TBW/IBW > 1.2 and pharmacist chose to use AdjBW example

1. Pt Info | 2. Kidney Function | 3. LD | 4. Vd | 5. CLVanco | 6. MD | 7. Levels / Labs | 8. Progress Note

Progress Note

Update Progress Note

Create Monitoring Form

1

Health Status

Patient is a 77 year old female who started vancomycin on 07/15/2020. The pharmacokinetic service is being consulted for vancomycin dosing and monitoring.

Results Review

Height (cm): 149.6 cm
Weight (kg): 69.4 kg
SCr (mg/dL): 0.6 mg/dL
Estimated Renal Function: CrCl 39.8 mL/min

Obesity Check:

-- Patient's TBW/IBW: 1.62
-- Patient's BMI: 31
-- Used AdjBW of 53.5 kg instead of 43 kg for CrCl Calculation
-- Calculated CrCl increased from 32 mL/min to 39.8 mL/min with adjustment

Muscle wasting/cachectic check:

-- Rounded SCr up from 0.6 to 1, because of concern of muscle wasting/cachexia
-- Calculated CrCl decreased from 66.4 mL/min to 39.8 mL/min with adjustment

Assessment

Day of Therapy: 1
Duration of therapy per treating prescribers
Ordering Physician: Marie Curie
Suspected Indication: UTI*

Language when TBW/IBW > 1.2 and pharmacist chooses to use AdjBW

VBA Code:

```

' obesity Check
  If pt.kidney.UsedAdjBW Then
    str = addLine(str, "Obesity Check:")
    str = addLine(str, "-- Patient's TBW/IBW: " &
pt.char.TBW_IBWRounded)
    str = addLine(str, "-- Patient's BMI: " & pt.char.BMIRounded)
    str = addLine(str, "-- Used AdjBW of " &
pt.char.AdjBWRoundedwDescriptor & " instead of " &
pt.char.IBWRoundedwithDescriptor & " for CrCl calculation")
    pt.kidney.UsedAdjBW = False
    str = str & "-- Calculated CrCl increased from " &
pt.kidney.CrClRoundedwithDescriptor
    pt.kidney.UsedAdjBW = True
    str = addLine(str, " to " & pt.kidney.CrClRoundedwithDescriptor & "
with adjustment")
  End If

```

Bug Fixes

☑ updated logic to update database field properties (bug fix for room variable switching from numeric to text type).

The screenshot shows a web form titled "Enter Patient Information". It is divided into several sections:

- Load Patient:** Contains a "Load Patient Information" dropdown menu with the value "141891" and a "Load" button.
- 1. Patient Identifiers:** Contains fields for MRN (141891), Last Name (Bunny), First Name (Bugs), Service (LDR), and Room (3a). The "Room" field is highlighted with a red rectangle.
- 2. Diagnosis:** Contains a "Consulting Physician" dropdown menu with the value "Marie Curie".
- 3. Weight and Gender:** Contains fields for Weight (69.4 kg) and Gender (Female).

A callout box points to the "Room" field with the text: "This was a 'numeric' field in database.. resulted in error/bug when trying to save. Switched to text field to allow '11-1', '3a' text input".

At the bottom of the form are "Cancel" and "Next" buttons.

☑ Updated bug where when you clicked "No Load" button, patient information about the load dose was not being updated and still displayed on context bar.

Data Input

Patient's weight: 69.4 kg
 Dosing: 25 mg/kg
 Max Dose: 3,000 mg

No Load Calculate Load

Revise / Manually Enter Load

Load Dose: 1750
 Infuse Over: 1.8
 Schedule at: Wed, 7/15 at 7/15

Table 1. ASHP / IDSA Recommendations

Serious MRSA Infections: 20-35 mg/kg ABW*
 Critically ill: 25-35 mg/kg#
 Obese (BMI > 30): 20-25 mg/kg+
 HD: 20-25 mg/kg+
 CRRT: 20-25 mg/kg+
 Pediatrics (Obese): 20 mg/kg
 Pediatrics: no loading dose

* consider in treatment of serious MRSA infections.
 # for intermittent or cont TBW not to exceed 3000mg
 + for patients with obesity not to exceed 3000mg in serious infections

Doses

7/15 14:00 - 1750 mg
 7/15 14:00 - 1500 mg
 7/16 14:00 - 1500 mg
 7/17 14:00 - 1500 mg
 7/18 14:00 - 1500 mg

There was a bug, where if you had already selected a load dose, and pressed no load.

The change would not be carried over to the database.



LOAD DOSE: 1750 mg over 1.8 hrs
 on Wed, 7/15 at 14:00

Cancel

<< Back

Next >>

Save

"Bunny, Bugs" last saved Wed, 7/15 01:21 pm



MAINTENANCE: 1500 mg over 1.8 hrs
 AUC: 470 +/- on Wed, 7/15
[*View AUC Calculation Steps](#)

This load dose used to persist even after pressing 'No Load' .. Saving to the database also did not reflect changes.

Dose Type: Load
 Strength: 1750 mg
 Infusion Time: 1.8 hrs
 Scheduled: 7/15 14:00

Regimen: 1750 mg over 1.8 hrs
 AUC (Post): 470
 Scheduled: 7/15 14:00

1. Pt Info | 2. Kidney Function | 3. LD | 4. Vd | 5. CLVanco | 6. MD | 7. Levels / Labs | 8. Progress Note

Data Input

Patient's weight: 69.4 kg

Dosing: 25 mg/kg

Max Dose: 3,000 mg

No Load

Calculate Load

Table 1. ASHP / IDSA Recommendations

Serious MRSA Infections: 20-35 mg/kg ABW*
Critically ill: 25-35 mg/kg#
Obese (BMI > 30): 20-25 mg/kg+
HD: 20-25 mg/kg+
CRRT: 20-25 mg/kg+
Pediatrics (Obese): 20 mg/kg
Pediatrics: no loading dose

* consider in treatment of serious MRSA infections.
for intermittent or cont TBW not to exceed 3000mg
+ 3000mg in serious infections

Doses

7/15 14:00 - 1500 mg
7/16 14:00 - 1500 mg
7/17 14:00 - 1500 mg
7/18 14:00 - 1500 mg

1
After clicking "No Load"
behavior acts as expected.



LOAD DOSE: No load dose given

Cancel

<< Back

Next >>

Save

"Bunny, Bugs" last saved Wed, 7/15 01:21 pm



MAINTENANCE: 1500 mg over 1.5 hrs every 2

AUC: 470 +/- on Wed, 7/15 at 14:00

[*View AUC Calculation Steps](#)

2
Patient Context bar reflects the
change has occurred, and
database updated accordingly

Regimen: 1500 mg q24h
AUC (Pop): 470
Scheduled: 7/15 14:00