

### Aug-12th Follow up

- ☑ Error-handling in PostLevels / Infusion-time textbox

**Before:** "Type Mismatch" error

**After:** Message Box with warning

- ☑ Bug in AUC Steps Initialization

**Feedback:** Bug - Initializing AUC Steps Userform

- ☑ Revisited logic when initializing userform

### Next Steps

Working on..

- ☐ `Monitoring Form`: Solution for combining Genevieve's monitoring form, functionality of calculated CrCl in monitoring form.

Still thinking about ...

- ☐ `Modeless`: Try to keep userforms 'Modeless' so that pharmacist can navigate outside of userform
- ☐ `PostLevels`: Levels/Labs helper after inputting levels
- ☐ `PatientList`: Day of therapy / Timeout to Patient List - Need to add logic for Timeout (48-72 hrs?)
- ☐ `User Guide`: Edit guide to update information
- ☐ `NewConsult`: Add "Transfer to DMC Calculator" for `New Consult` userform

## Aug-12th Follow up

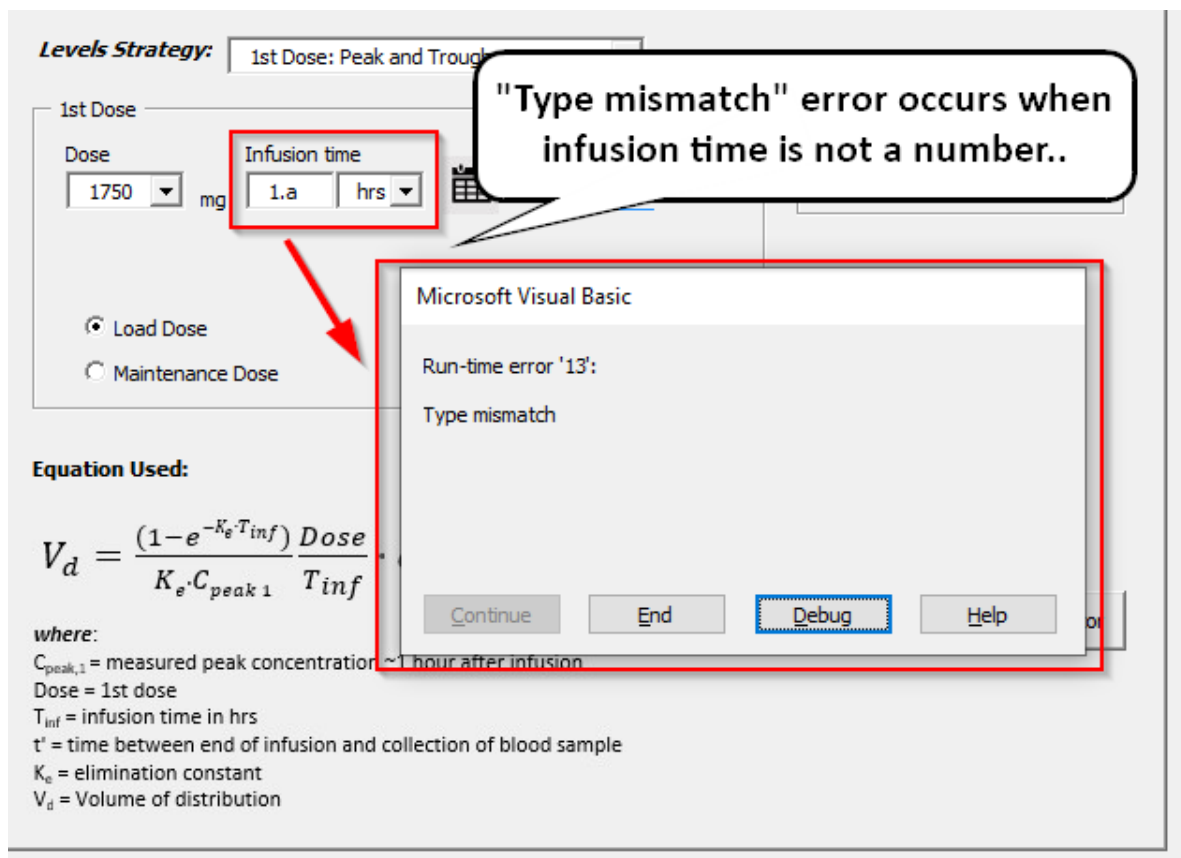
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### ☑ Error-handling in PostLevels / Infusion-time textbox

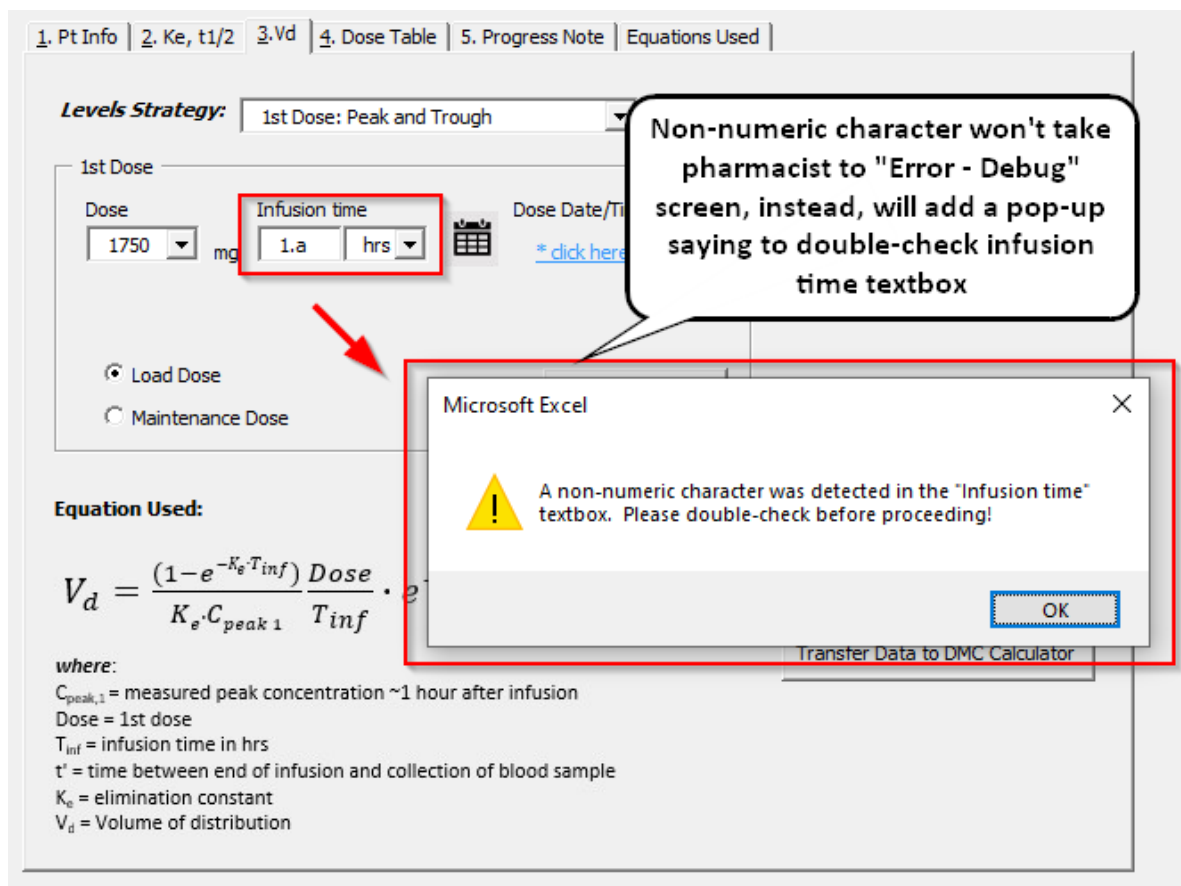
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- ☑ Handled error when pharmacist would enter non-numeric characters into infusion time textbox

**Before: "Type Mismatch" error**



## After: Message Box with warning



## ☑ Bug in AUC Steps Initialization

## Feedback: Bug - Initializing AUC Steps Userform

I realized that the AUC Calculations steps in the post-levels are not importing in the new patient-specific parameters, but copy over the population-based. Can we make the view AUC Calculation steps default to patient specific in the post levels part??

My vanc 1gm q24h says 400 here, but 518 on the AUC calculation steps??

### Screenshots:

Maintenance Dose Table

MRN: 4724031  
Name: Hardwire femoral infection, Very elderly male

Age: 91 M  
Ht: 167 cm  
Wt: 76.2 kg  
TBW/IBW: 1.21  
BMI: 27.3

SCR: 1.1 mg/dL  
CrCl: 42.3 mL/min  
Using AdjBW: True

Provid  
Indicati  
DC

sult  
re Infect

Maintenance Dose Table

Infusion RateGlobalRPh

\* TargetAUC/MIC range 400-600

MIC0.1 - 1.0

	750mg	1000mg	1250mg	1500mg	1750mg	2000mg	
	1 hr	1 hr	1 hr	1.5 hrs	1.5 hrs	2 hrs	<input checked="" type="checkbox"/> infusion times
Q6H							mg h / L mg/dL
Q8H							mg h / L mg/dL
Q12H							mg h / L mg/dL
Q18H	400 11	530 14					mg h / L mg/dL
Q24H		400 9	500 11				mg h / L mg/dL
Q36H				410 6	470 7	550 9	mg h / L mg/dL
Q48H						410 4	mg h / L mg/dL

\* AUC calculations are estimated and rounded to nearest 10's.

PK Parameters

**Population-based**  
Vd: 49.5 L  
Ke: 0.0398  
t1/2: 17.4 hrs  
CLVanco: 2 L/hr

↕

PK Parameters

**Patient-Specific**  
Vd: 49.9 L  
Ke: 0.0512 ▲ 28.9%  
t1/2: 13.5 hrs ▼ -22.4%  
CLVanco: 2.6 L/hr ▲ 29.8%  
^ Using for table

Legend

AUC/MIC  
trough  
TDD  
dosing

Options

☒ Estimated trough  
☐ Total Daily Dose (TDD)  
☐ dosing in mg/kg

☐ Show all values

\*View AUC Calculation Steps

Exit

\* Click inside the blue box to view steps!

- **Old logic:**

When clicking "View AUC Calculation Steps," .. if the pharmacist was in "PostLevel" userform, it would default to the 'Old Regimen'..

**MAINTENANCE:** 1000 mg over 1 hr every 12 hrs  
 AUC: 420 +/- on Tue, 8/04  
 \*View AUC Calculation Steps

**NEW MAINTENANCE DOSE**  
 750 mg over 0.75 hrs every 8 hrs

Provider: Marie Curie Indication: UTI* DOT: Day 9	Dose Type: Load Strength: 1750 mg Infusion Time: 1.8 hrs Scheduled: 8/03 22:00	Old Regimen: 1000 mg q12h AUC (Pop): 610 AUC (Pt): 420 Scheduled: 8/04 10:00 Administered: 7/02 10:10	New Regimen: 750 mg q8h AUC (Pop): 680 AUC (Pt): 460 Scheduled: 8/04 06:00
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Adjustable Dose, Tau, and Tinf

Dose = 1000 mg  
 $\tau$  = 12 hrs  
 $k_e$  = 0.0755 hr<sup>-1</sup>  
 (ke was estimated using Ke, CLVanco population equations)  
 Vd = 45.1 L  
 (Vd was also estimated using population equations)  
 t = 1 hrs  
 (t is time of infusion in hrs)

Calculate

- New Logic:

Now initializes values with new regimen if able to if not, it will try the old regimen values.

**NEW MAINTENANCE DOSE**  
 750 mg over 0.75 hrs every 8 hrs

Old Regimen: 1000 mg q12h AUC (Pop): 610 AUC (Pt): 420 Scheduled: 8/04 10:00 Administered: 7/02 10:10	New Regimen: 750 mg q8h AUC (Pop): 680 AUC (Pt): 460 Scheduled: 8/04 06:00
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on initialization

Adjustable Dose, Tau, and Tinf

Dose = 750 mg  
 $\tau$  = 8 hrs  
 $k_e$  = 0.1304 hr<sup>-1</sup>  
 (ke was estimated using Ke, CLVanco population equations)  
 Vd = 39.3 L  
 (Vd was also estimated using population equations)  
 t = 0.8 hrs  
 (t is time of infusion in hrs)

Calculate

☑ Evaluated if monitoring form can automatically calculate CrCl

I'm working on it!! I don't have a deliverable for this week!

## Next Steps

### Working on..

☐ **Monitoring Form:** Solution for combining Genevieve's monitoring form, functionality of calculated CrCl in monitoring form.

### Still thinking about ...

- ☐ **Modeless:** Try to keep userforms 'Modeless' so that pharmacist can navigate outside of userform
- ☐ **PostLevels:** Levels/Labs helper after inputting levels

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