6/23 Follow-up

Tasks

- ☑ Change trough to AUC in monitoring form
- ☑ Denote maintenace dose in Post Levels maintenance dose table
- ☐ Add "Transfer to DMC Calculator" for New Consult userform =/

Update summary

- 1. Updated Monitoring Form
- 2. Updated MDTable for New Consult
 - Added patient context bar to the top of maintenance table userform
 - Separated PK paramaters into two frames
- 3. Updated MDTable for Post Levels
 - Added percent change, triangles with colors to denote significant changes > 5% from population-based PK parameters
 - Highlighted dosing regimen in maintenance dose table if patient already has a selected regimen
- 4. Updated Post Levels Vd user experience
- 5. Updated Post Levels height and height units events

1. Updated Monitoring Form

- Monitoring form now copies sheet from workbook and makes a new workbook (I'm trying to keep the actual excel file from containing any patient information)
 - Patient information will be stored in db.accdb database
 - Monitoring form with patient information will pop up with new workbook

_	В	С	D	Е	F	G	Н	- 1	
	Vancomycin Monitoring Form								
	Identifiers Characteristics Diagnosis								
	MRN: 12345 Name: Smith, Jane Location: 2W 214	Age: Ht: Wt:	41 F 157 cm 88.9 kg		Provid Indicatio Targ	on: Osteo	hn Jones omyelitis		
	Anthropomorphics	Kidney Function			Loading Dose				
	TBW: 88.9 TBW/IBW: 1.79 IBW: 49.7 BMI: 36.1 AdjBW: 65.4	SCr: 0.5 Dose: 0 mg over 0 hrs Bun: 0 Scheduled: Sat, 12/30 00:00 CrCl: 152.8 mL/min mg/kg 0 mg/kg Drugs:							
[Day of Therapy /Date	Day 1 6/23	Day 2 6/24	Day 3 6/25	Day 4 6/26	Day 5 6/27	Day 6 6/28	Day 7 6/29	
ı	Maintenance dose	1000 mg q	8h						
1	Administration times per MAR								
1	Total Daily Dose (TDD)	3 g							
1	AUC								
F	Population Estimate	480							
Н	Patient-Specific								
Н	Levels								
Н	Peak Level Ordered for: (date/time)	6/24 17:30							
⊢	Peak Level/Time Drawn								
⊢	Trough Level Ordered for: (date/time)	6/24 22:30							
-	Trough Level/Time Drawn				<u> </u>				
_	Labs								
-	SCr (daily for adults)	0.5							
-	BUN (daily for adults)	4							
Н	CrCl estimate (ml/min)	152.8							
Н	NBC	1							
P	rocalcitonin								
Other nephrotoxic drugs: NSAIDs, ACE Inhibitor, diuretics, pip/tazo, vasopressors, etc.									
L	allows a constitution of the constitution of t	II	Nasal MRSA PCR () Positive () Negative Blood culture organism(s):()					:	
ıı 🗥	ulture & Sensitivity results / MRSA PCR results or respiratory and sepsis indications:	Resp cultur		()				:	
	DI I CADII GLUI Y GIIU ACDAIA IIIUIUGUUIIA	1	Other:; organism(s): () final Date:						
		Other:							
fo	valuate for de-escalation		[] MRSA PCR follow up if	[] Action on culture information					

Maintenance Dose Table X

Provider: Dr. John Jones SCr: 0.5 mg/dL Name: Smith, Jane Location: 2W 214 CrCl: 152.8 mL/min Indication: Osteomyelitis djBW: True DOT: Day 1 Ht: 157 cm Wt: 88.9 kg Using AdjBW: True TBW/IBW: 1.79 BMI: 36.1 Maintenance Dose Table Infusion Rate GlobalRPh * Target AUC/MIC range 400-600 MIC 0.1 - 1.0 ▼ ▼ PK Parameters Population-based 750mg 1000mg 1250mg 1500mg 1750mg 2000mg Vd: 57.8 L infusion times Ke: 0.1144 1.5 hrs 1.5 hrs t1/2: 6.1 hrs CLVanco: 6.5 L/hr mg h / L 480 ^ Using for table Q6H 16 mg/dL PK Parameters Patient-Specific Vd: mg h / L 600 Q8H mg/dL Ke: t1/2: CLVanco: mg h / L mg/dL 490 570 Legend -Q12H AUC/MIC trough mg h / L 450 TDD mg/dL dosing Q18H Options mg h / L Q24H mg/dL ▼ Estimated trough Total Daily Dose (TDD) mg h / L mg/dL dosing in mg/kg Q36H mg h / L mg/dL Show all values Q48H *View AUC Calculation Steps * AUC calculations are estimated and rounded to nearest 10's. Exit * Click inside the blue box to view steps!

2a. Added patient context to top of userform

MRN: 56789
Name: Test, Patient1
Location: Med/Surg

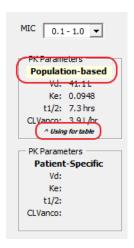
Age: 59 M
Ht: 180.3 cm
Vt: 63.3 kg
TBW/IBW: 0.84
BMI: 19.5

SCr: 0.8 mg/dL
Indication: Sepsis (Unknown Source)
DOT: Day 1 (-13 min)

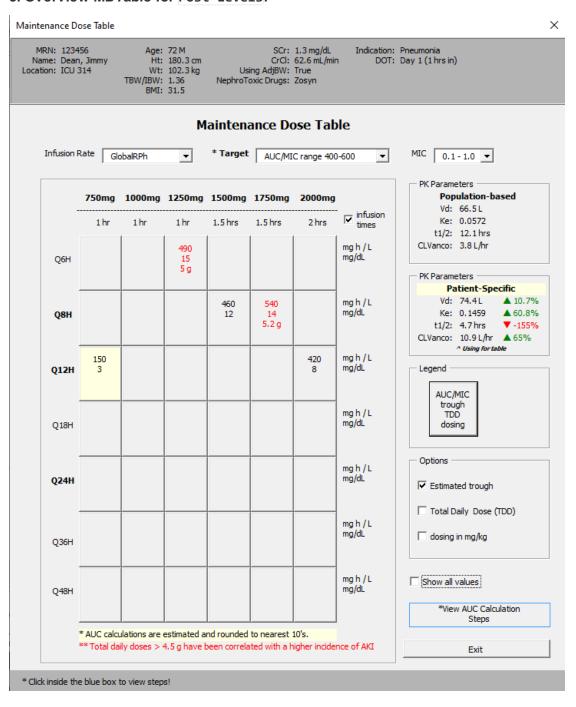
DOT: Day 1 (-13 min)

2b. Separated PK parameters into two frames

- highlighted the pk parameters, population-based or patient-specific that are being used for the table
- added label saying ^ using for table



3. Overview MDTable for Post Levels.



3a. Added percent change, triangles with colors to denote significant changes > 5% from population-based PK parameters



3b. If there is a maintenance dose or dosing regimen already selected, that option will be highlighted in dosing table

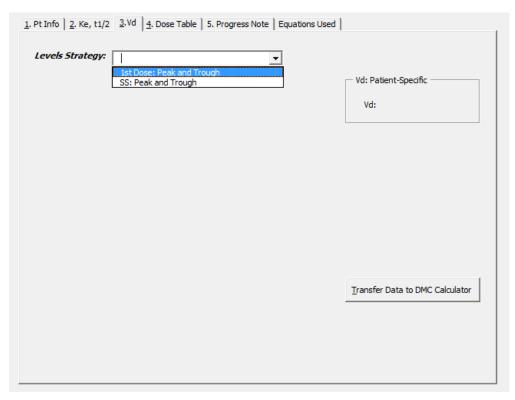
	750mg	1000mg	1250mg	1500mg	1750mg
	1 hr	1 hr	1 hr	1.5 hrs	1.5 hrs
Q6H	480 16				
Q8H		480 14	600 17		
Q12H				490 11	570 13

4. Updated Post Levels user experience

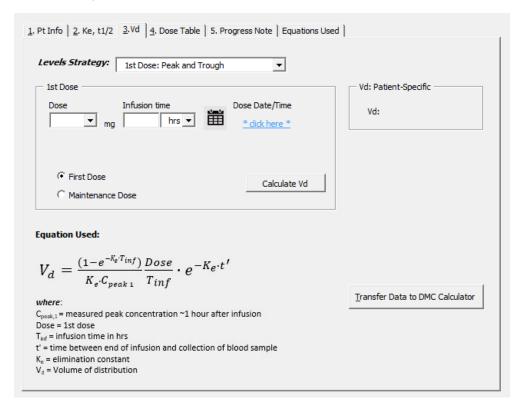
Feedback:

Is there a way to make the user pick 1st Dose versus Steady State or default to Steady State? I think I forget to go through and pick through that option and almost made a major med error today.

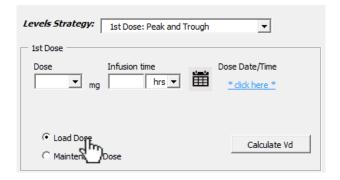
• Pharmacist is now greeted to an empty tab where you first have select which strategy you are using for dosing.



• After selecting, the relevant equation and information will be presented to the pharmacist.



• Added an option radio buttons to designate if the first dose was a Load Dose or Maintenance Dose



• Updates information about the patients doses accordingly

If PostLevels.obLoadDose.value = True Then pt.ld.dose.strength = dose pt.ld.dose.infusionTime = Tinf
Elself PostLevels.obMD.value = True Then pt.md.dose.strength = dose pt.md.dose.infusionTime = Tinf
End If

5. Updated Post Levels height and height units events

Feedback: I think that the height isn't being saved? When I try to reload the patient, there's a blank space on the height.



- When looking back at the code, I had a comment that I needed to rewrite the logic for that section of the calculator! =/
- ' Need to rewrite tbHeight_afterUpdate() and cmbHeight_afterUpdate() here for PostLevels
- Rewrote the two events for Post Levels section.