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Vancomycin Calculator Comparison

Calculator	Descriptors	Output/Method	Cost	Accuracy	Ease of Use
Detroit Medical	-Excel-based AUC	Trough	Free	-Bayesian	-Many editable
Center (DMC)	platform developed	AUC		methodology	fields of patient-
Calculator	and refined at DMC			unavailable	specific and kinetic
	-Editable patient			-Multiple first-	equations
	specific factors and			order equations	-Clear input of and
	kinetics			available for use	output of
	-Limited access			-Provides graph	values/results
				of estimated	
				levels for 48	
				hours	
InsightRx	-Cloud-based	Trough	Fee-based	-Iterative	-Complex system if
	platform accessible	AUC		improvement	not integrated
	via web or with	Bayesian		based on input of	within EHR
	integration into EHR			levels	-Requires minimal
	-Ability to save			-Responsive to	training
	patient profiles-			patient specific	-Responsive/flexible
	Multiple adaptable			changes	customer service
	Bayesian models			-Requires input	
	available			of doses	
				administered	
ClinCalc	-Web-based	Trough	Free	-Multiple	-Straight-forward
	platform for	AUC		Bayesian models	input
	vancomycin	Bayesian		-Editable Vd, ke,	-Clear results
	calculations			and patient	-Loading dose
	-Multiple patient			parameters	option
	specific and empiric				-Transparent
	dosing options				description of calculations below
	-Bayesian and two- level calculations				results
	-Excellent for				resuits
	empiric kinetics				
	-Not adaptive with				
	subsequent levels				
TDMx	-Web-based	Trough	Free	-Multiple	-Complex
Vancomycin	Bayesian calculator	AUC	1100	Bayesian models	operability
2 2.1.00.1.1,0111	from Germany	Bayesian		-Albumin, SCr,	-Requires solid
	-Allows for input of	Dayesian		and TDM lab	understanding of
	fixed dosing			input as	vancomycin
	regimen or varying			covariates	kinetics.
	individual doses				
	-Beta-version				
DoseMe-Rx	-Web-based	Trough	Fee-based	-Allows for input	-Universal EHR
		_			
	•		trial available	_	_
	integration into EHR	,			support
DoseMe-Rx	-Beta-version -Web-based platform with option for	Trough AUC Bayesian	Fee-based Free 14-day trial available	-Allows for input of fixed dosing regimen or	integration -24/7 technical

	-Patient profiles can			varying individual	-Multiple screens
	be saved			doses	required for view of
	-Multiple adaptable			-Iterative	input and results
	Bayesian models			improvement	-Requires minimal
	available			Improvement	training
BestDose	-Software-based	Trough	Fee-based	-Allows for input	-Challenging
Desibose		AUC	ree-based	· ·	
	platform that			of fixed dosing	operability
	requires installation, but not able to	Bayesian		regimen or	-Requires extensive
				varying individual	training
	integrate with EHR			doses	-Web-based
	-Patient profiles can be saved			-Responsive to	application not
				patient specific	available
	-Multiple adaptable			changes	
	Bayesian models				
	available				
PrecisePK	-Software-based	Trough	Fee-based	-Allows for input	-Requires some
	platform that	AUC		of fixed dosing	training
	requires installation,	Bayesian		regimen or	-Multiple screens
	but not able to			varying individual	required for view of
	integrate with EHR			doses	input and results
	-Multiple adaptable			-Responsive to	-Lack of warning for
	Bayesian models			patient specific	poorly fit models
	available			changes	-Challenging
			_		operability
Global RPH	-Web-based	Trough	Free	-Editable and	-Difficult to use if
	platform for	AUC		varied kinetic	not familiar with
	vancomycin			parameters	empiric kinetics
	calculations-Offers			-Complex empiric	-Extensive
	copy-paste text			calculations	education related to
	template for EHR			-Two-level AUC	dosing
	notes			calculations	recommendations
					-Lack of transparent
					description of
					calculations
Carefa (10.11	NA/ala la const	Tanada	Face 201	Na and the Alice	-Complex input
Sanford Guide	-Web-based	Trough	Free, with	-No empiric AUC	-Very simple and
	platform	AUC (2-level)	subscription	kinetic support	easy to use
	-Two-level		of Sanford	-First-order	
	calculations only		Guide	calculations	
	-Offers copy-paste				
	text template for				
Duddingston Additi	EHR notes	Turnish	Facility of	I I malala de Const	Limited decided to the
Rxkinetics - Adult	-Software-based	Trough	Fee-based	-Unable to input	-Limited technical
and Pediatric	platform that	AUC	Free 60-day	varying prior	support
Kinetics (APK)	requires installation,	Bayesian	trial available	doses (must	-Requires training
	but not able to			input fixed dosing	
	integrate with EHR		1	regimen)	

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				-Unreliable accuracy w/2- level kinetics	
MedCalc	-Online free website for vancomycin calculations -Last updated 2010	Trough	Free	-Only trough calculations based on single reference	-Very simple operability
MPR	-Web-based platform -Currently unavailable	Trough	Free but if use >5 times/month, need login	-Trough only	-Functionality requires Flash integration