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Vancomycin Calculator Comparison

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

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

				-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