Piperacillin TDM

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This application is designed to provide individualized estimates of drug exposure for critically ill patients with sepsis that have received one or more doses of piperacillin.

Enter patient dosing schedule (historical and/or proposed) and measurements of drug concentration in blood (if any).

☐ Common Dosing Pattern

Manual entry of infusion data is disabled while this box is checked.

Piperacillin Therapeutic Drug Monitoring

Infusion Schedule

	Start (h)	Duration (h)	Rate (g/h)
1	0.00	0.50	6.00
2	8.00	0.50	6.00
3	16.00	0.50	6.00
4	24.00	0.50	6.00
5	32.00	0.50	6.00
6	0.00	0.00	0.00
7	0.00	0.00	0.00
8	0.00	0.00	0.00
9	0.00	0.00	0.00
10	0.00	0.00	0.00

Concentration Data

	Time (h)	Conc. (µg/ml)
1	1.00	82.70
2	4.00	70.50
3	40.00	60.20
4	0.00	0.00
5	0.00	0.00
6	0.00	0.00
7	0.00	0.00
8	0.00	0.00
9	0.00	0.00
10	0.00	0.00

☐ Compute credible interval for fraction of time above threshold statistic using Markov chain Monte Carlo sampling of the posterior distribution.
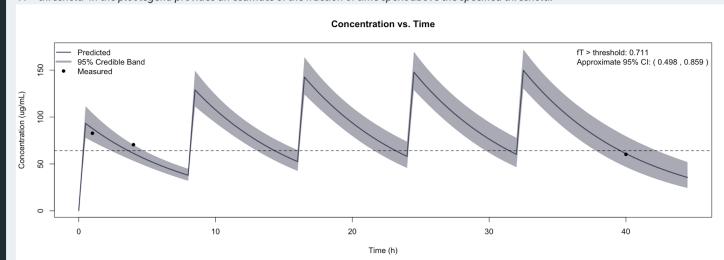
[Update Plot]

Threshold (µg/ml)

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Threshold value is typically some multiple of the minimum inhibitory concentration (MIC) for the target microorganism.

'fT > threshold' in the plot legend provides an estimate of the fraction of time spent above the specified threshold.

Concentration vs. Time

Legend: — Predicted — 95% Credible Band ● Measured

fT > threshold: 0.711
Approximate 95% CI: (0.498 , 0.859)

Time= 44.19 h
Concentration= 36.98 µg/ml