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| **SDC 1. Medication Dosage Problem Set and Correct Response Percentages** | | | |
| **Patient Case Description** | **Medication Dosage Question** | **Medication Dosage Calculation**  **and Answer** | **Percent of Respondents Who Answered Correctly** |
| Your patient is a 65 year old man who weighs 190 pounds and has a diagnosis of ischemic  stroke. | Activase Initial Bolus  Note: Activase is 0.9 mg/kg (not to exceed 90-mg total dose) infused over 60 minutes with 10% of the total dose administered as an initial intravenous (IV) bolus over 1 minute. | Step 1: 190 lbs/2.2 lbs per kg = 86 kg  Step 2: 86.4 kg x 0.9 mg per kg/10 = 7.77 mg  Answer: 7.77 mg | 73.4 |
|  | Activase Total Dose | Step 1: 190 lbs/2.2 lbs per kg = 86.4 kg  Step 2: 86.4 kg x 0.9 mg/kg = 77.7 mg  Answer: 77.7 mg | 74.5 |
| Your patient is a 4 year old with strep throat who weighs 40 pounds. Amoxicillin is ordered 45 mg/kg/day in divided doses every 12 hours. | Amoxicillin First Dose | Step 1: 40 lbs/2.2 lbs per kg  Step 2: 18.18 kg x 45 mg/kg/day = 818 mg/day (or 409 mg every 12 hours)  Answer: 409 mg | 47.3 |