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PHARMACOKINETICS OF BENZATHINE PENICILLIN G

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Benzathine penicillin G kinetics were studied in patients with rheumatic heart disease after single intramuscular injection of 1.2 million units of benzathine penicillin G. Penicillin G plasma concentrations were measured by microbiological assay and fitted by least squares linear regression analysis to a monoexponential equation. Calculated elimination half-life ($t_{0.5}$) and rate constant (t_{el}) were 16.5 ± 3.8 day and 0.0532 ± 0.011 day respectively. Body clearance (C1) was 570 ± 50.9 litre.day and the area under the curve (AUC $t_{0.5}$) was 1.66 ± 0.19 µg.ml day. The result shows that monthly intramuscular injection for rheumatic fever prophylaxis may be adequate.

Note: Pharmacokinetic parameters were shown as mean ± sem.

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