



The following evidence was used in preparation of these recommendations:

SIGN 104: Antibiotic Prophylaxis in Surgery 2008 (guidance now withdrawn) recommended an additional intra-operative dose of antibiotic for cardiac surgery longer than four hours when using an antibiotic with pharmacokinetics equivalent to cefazolin. The guideline also advises that despite no evidence being identified additional dosage may be indicated for longer surgery or shorter-acting agents to maintain activity for the duration of the operation. [The NICE Clinical Guideline 74: Surgical Site Infection 2008](#) and [The Stanford Guide](#) advise to give a repeat dose of antibiotic prophylaxis when the operation is longer than the half-life of the antibiotic given while the [American Journal of Health-System Pharmacy](#) guideline suggests re-dosing after 2 x half-life.

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