Isoprenaline

NOT RECOMMENDED AS AN ESSENTIAL MEDICINE

Section: 12. Cardiovascular medicines > 12.2. Antiarrhythmic medicines

ATC codes: C01CA02

Indication	Bradycardia ICD11 code: MC81.1
INN	Isoprenaline
Medicine type	Chemical agent
List type	Complementary
Formulations	**Parenteral > General injections > IV:** 20 µg per mL in ampoule (hydrochloride)
EML status history	First added in 1993 (TRS 850) Changed in 1997 (TRS 882) Removed in 2005 (TRS 933)
Sex	All
Age	Adolescents and adults
Therapeutic alternatives	The recommendation is for this specific medicine
Patent information	Patents have expired in most jurisdictions Read more about patents.
Wikipedia	Isoprenaline
DrugBank	Isoprenaline

Summary of evidence and Expert Committee recommendations

During its meeting in 2003, the Committee recommended that isoprenaline be reviewed for possible fast-track deletion at the meeting in 2005. The Committee noted that there was no published evidence to support the efficacy of isoprenaline in the emergency treatment of bradycardia. This was supported by the ISDB review which also concluded that cardiac pacing and other drug therapies provide effective, safer alternatives. The Japan Institute of Pharmacovigilance proposed that isoprenaline be retained because it is needed in the treatment of transient and reversible severe bradycardia where cardiac pacing is unavailable, and in the treatment of beta-blocker overdose. Unfortunately, no data were submitted to support these assertions, and the Committee could not find good clinical studies to support its efficacy and safety. The Committee therefore recommended that isoprenaline be deleted from the Model List because of the lack of evidence and the very limited indications for its use.

