**Authors' objectives**
To assess the therapeutic potential of lacidipine in hypertension.

**Searching**
MEDLINE, AdisBase, drug company databases and symposia proceedings were searched for relevant studies.

**Study selection**
Various designs including non-comparative studies, placebo-controlled studies; comparative studies with other drugs appear to be double-blind randomised controlled trials (RCTs).

**Specific interventions included in the review**
Lacidipine at 1 to 8 mg/day in dose-titration studies; comparisons with hydrochlorothiazine, atenolol, nifedipine, other calcium-channel blocking agents and enalapril.

**Participants included in the review**
Patients with mild-to-moderate hypertension: sitting diastolic blood-pressure (BP) 95 to 115 mmHg, and systolic BP 200 mmHg.

**Outcomes assessed in the review**
The mean decrease in BP was assessed.

**How were decisions on the relevance of primary studies made?**
The authors do not state how the papers were selected for the review, or how many of the authors performed the selection.

**Assessment of study quality**
The authors do not report the criteria used to assess validity, or how the validity assessment was performed.

**Data extraction**
The authors do not state how the data were extracted for the review, or how many of the authors performed the data extraction.

**Methods of synthesis**
How were the studies combined?
Tables of mean BP decrease.

**How were differences between studies investigated?**
The authors did not investigate differences between the studies.

**Results of the review**
Dose titration, 7 studies with 621 patients; drug comparisons, 6 studies with 1,727 patients.
Once daily administration of 2 to 8 mg lacidipine reduces BP in patients with hypertension.

**Authors' conclusions**
In dose-titration studies, 2 to 8 mg lacidipine is effective in reducing hypertension in 77 to 87% of patients. The antihypertensive efficacy of lacidipine is equivalent to that of hydrochlorothiazide, atenolol and nifedipine. The number of patients requiring dose increases or the addition of a second drug was similar for all treatments. Adverse effects appear to be similar to those of other calcium-channel blockers, with the most frequently reported effects being headache, flushing, ankle oedema, dizziness and palpitations.

**CRD commentary**
This study was produced by a commercial company with close links with the pharmaceutical industry. Little detail was given on the studies quoted, and the lack of stated inclusion, exclusion and validity criteria could obscure possible bias.

**Implications of the review for practice and research**
Lacidipine appears to be a new drug with similar characteristics to calcium-channel blockers already available. There is no clear evidence of specific advantages for this product.

**Bibliographic details**

**PubMedID**
7527328

**Indexing Status**
Subject indexing assigned by NLM

**MeSH**
Adult; Aging /metabolism; Animals; Antihypertensive Agents /pharmacokinetics /pharmacology /therapeutic use; Calcium Channel Blockers /pharmacokinetics /pharmacology /therapeutic use; Cross-Over Studies; Dihydropyridines /pharmacokinetics /pharmacology /therapeutic use; Disease Models, Animal; Dose-Response Relationship, Drug; Drug Synergism; Drug Therapy, Combination; Hemodynamics /drug effects; Humans; Hypertension /drug therapy; Middle Aged; Tissue Distribution

**AccessionNumber**
11994000628

**Date bibliographic record published**
21/06/1995

**Date abstract record published**
21/06/1995

**Record Status**
This is a critical abstract of a systematic review that meets the criteria for inclusion on DARE. Each critical abstract contains a brief summary of the review methods, results and conclusions followed by a detailed critical assessment on the reliability of the review and the conclusions drawn.