Aloe vera
Aloe vera, Aloe barbadensis, Aloe capensis

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PREPARATION: Aloe vera is a succulent perennial plant that belongs to the lily family. It has been used topically for thousands of years. The product used is a gel—a clear, jelly-like substance that’s scraped from the inner region of the leaf. Its main uses are as an emollient, but it may also be taken internally.

ACTIVE CONSTITUENTS: Aloe vera leaves contain a range of biologically active compounds, including acetylated mannans, polymannans, anthraquione, C-glycosides, anthrones and anthraquinones and various lectins.

USES: Externally for skin conditions such as psoriasis, eczema, shingles, genital herpes, cuts, burns, and internally for digestive problems including ulcers and diverticulitis.

EVIDENCE FOR EFFECTIVENESS: There is some evidence that aloe vera cream performs better than placebo for chronic plaque psoriasis and that pressure ulcers have improved healing where wounds are cleansed with saline spray containing aloe vera. There is insufficient evidence that its use in dressings and topical agents improves healing of surgical wounds, or that disposable napkin linings impregnated with aloe vera extract prevents napkin dermatitis in infants.

There is very weak evidence that aloe vera may be associated with a reduction in pain in oral lichen planus and with prevention of oral mucositis in patients receiving treatment for cancer.

ADVERSE EFFECTS: Most likely safe if used topically. Minor redness and rash have been reported with topical use. Topical use of aloe is probably safe for children, pregnant and nursing women. Internal use of aloe may cause acute hepatitis, increase liver enzymes and alter potassium and blood glucose lab test results. US Food and Drug Administration warns against the use of aloe vera (Prescriber Update Articles Watching Briefs—November 2007 Medsafe).

DRUG INTERACTIONS: Avoid topical use of aloe if using topical steroid medications. Do not use with azidothymidine (AZT) antiretroviral drug used for treatment of HIV/AIDS. Internal use may interfere with loop diuretics, such as furosemide. Do not use with other laxatives, cardiac medications, oral corticosteroids, or hypoglycemic drugs. In New Zealand, CARM has received a report involving warfarin interactions with aloe vera (Prescriber Update Articles Watching Briefs—November 2007 Medsafe).

Summary Message
Topical aloe vera may be effective in treating skin diseases such as psoriasis with little adverse effect apart from occasional rash. While there is weak evidence supporting its oral use in specific conditions, it may exacerbate a number of chronic conditions and has the potential for a number of drug interactions; hence its oral use is not recommended. As with any plant extract, caution is needed to ensure that a standardised pharmacological dose is being administered.

Key references

Herbal medicines are a popular health care choice, but few have been tested to contemporary standards. POOTION OR POISON? summarises the evidence for the potential benefits and possible harms of well-known herbal medicines.