KEY WORDS

OF MODERN ANTIFUNGAL THERAPY



CYTOCHROME P450

OR WHAT'S IN A NAME...

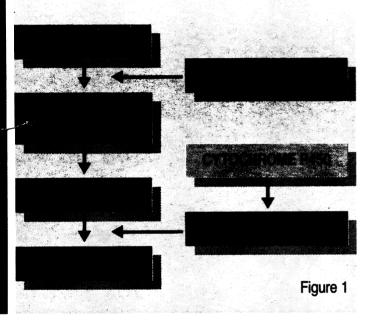


Figure 1 is a simplified illustration of one of the pathways for the enzymatic ergosterol synthesis in fungal cell membranes. (Ergosterol is essential for the structural cohesion of these membranes). Pharmacologically one can disrupt this process at two distinct points. The first is where squalene is made into an oxide. Alternatively, one can interfere where lanosterol is converted into ergosterol, by inactivating **cytochrome P450**— a chemical catalyst that performs a vital function in the enzymatic reaction. The broadest research experience to date has been gathered with the latter approach. Importantly, in view of the close similarities between the enzymatic processes in fungi and humans, either approach must be highly selective in disrupting the fungal enzyme systems only.

The metabolism of fungi is almost identical to that of other eukaryotic organisms, such as humans. Therefore, trying to design a systemic drug that kills fungi without harming their human host means searching for infinitesimal differences in metabolic pathways.

Selective precision for the metabolic pathways in fungi, as distinct from those in humans, remains the key determinant for any systemic antimycotic, regardless of its point of biochemical interaction. This precision has been achieved to an exceptional degree with itraconazole, alias Sporanox*, because it selectively inactivates the fungal cytochrome P450 only.



SHORT AND SIMPLE ORAL THERAPY

standard dose in dermatomycoses: 1 capsule (100 mg) once daily for 15 days standard dose in vaginal candidosis: 2 x 2 capsules (400 mg) for 1 day only

* Trademarks: SPORANOX, SEMPERA, SISTIZOL, TRISPORAL



Properties: Sporanox (itraconazole), a triazole derivative, is orally active against infections with dermatophytes (*Trichophyton* spp., *Microsporum* spp., *Epidermophyton floccosum*), yeasts (*Candida* spp., *Pityrosporum* spp.), *Aspergillus* spp. and various other yeasts and fungii. Indications: Sporanox (itraconazole) is indicated for vulvovaginal candidosis, pityriasis versicolor, dermatophytoses, fungal keratitis and oral candidosis. **Dosage and administration**: Vulvovaginal candidosis: 2 capsules (200 mg) morning and evening for 1 day, Pi-

tyriasis versicolor: 2 capsules (200 mg) once daily for 7 days. - Tinea corporis, tinea cruris, tinea pedis, tinea manus: 1 capsule (100 mg) daily for 15 days; highly keratinized regions, as in plantar tinea pedis and palmar tinea manus, require 1 capsule (100 mg) daily for 30 days. - Oral candidosis: 1 capsule (100 mg) daily for 15 days.

Oral candidosis: 1 capsule (100 mg) daily for 15 days.
 Fungal keratitis: 2 capsules (200 mg) once daily for 21 days.
 Contra-indications: Sporanox (itraconazole) is contra-indicated during pregnancy.
 Warnings and precautions: Although clinically Sporanox (itracona-

zole) has not been associated with hepatic dysfunction, it is advisable not to give this drug to patients with a known history of liver disease. **Nursing mothers:** It is recommended not to breast feed whilst taking Sporanox (traconazole).

Drug interactions: Sporanox (itraconazole) should not be given concomitantly with rifampicin.

Full prescribing information is available on request.

BRITISH MEDICAL JOURNAL AND EUROPEAN ASSOCIATION OF SCIENCE EDITORS

Foman Editing/ω.f. a medical journal

A workshop for editors of medical journals

The Spa Hotel, Tunbridge Wells, Kent 21-22 November 1991

PROGRAMME

Thursday 21 November

Friday 22 November

1400	Registration	0900	Copyright (John St Aubyn)
1430	Workshops*	1015	Coffee
1530	Tea and registration	1040	Workshops*
1600	Introduction	1145	Workshops*
1615	Editors and the lay media	1250	Lunch
	(Richard Smith)	1400	Economics of journals (Gillian Page)
1930	Dinner	1530	Tea

*Three workshops are run concurrently: on editorial freedom (Robyn Young), duplicate publication (Tony Waldron), and getting the best out of referees.

The fee of £165 (£150 for members of EASE and the BMA) will include a single room and all meals. The day rate for those wishing to attend only on Friday is £80 (£70 for members of EASE and the BMA). Rooms at the Spa Hotel will be allocated on a first come, first served basis; late applicants may have to stay at another hotel nearby. Apply as soon as possible to Miss Liz Crossan, BMJ, BMA House, Tavistock Square, London WC1H 9JR. Cheques should be made payable to the British Medical Journal.

I enclose a cheque for £	for the workshop for editors of medical journals at Tunbridge Wells, 2	21-22 November.
I wish to stay overnight/attend F	riday only/other. I am/am not a member of the BMA/EASE.	
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MEDICAL STATISTICS ON MICROCOMPUTERS RABROWN J SWANSON BECK ROUGHNAL OF CLINICAL PRITHOLOGY PMI

UK £8.95; Abroad £10.50; US\$25.00 BMA members: £8.45 or £10.00 ACP members: US\$21.00

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The microcomputer revolution has made powerful machines and highly complex programs generally available. This means that users of statistical techniques need no longer be concerned with the arithmetical and algebraic details — the software will take care of all that. What is vital, however, is to understand the ideas and the basic principles of statistical analysis. In *Medical Statistics on Microcomputers* R A Brown and J Swanson Beck show how to get the best use out of microcomputers when analysing data, particularly in the pathology laboratory. They explain the rational basis of various widely applicable statistical methods and also indicate their limitations so that you can make an informed choice. Chapters include:

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UK £3.95; Abroad £5.00; US\$13.00 BMA members £3.45 or £4.50 ACP members US\$11.00

STATISTICS IN PRACTICE – Sheila M Gore, Douglas G Altman

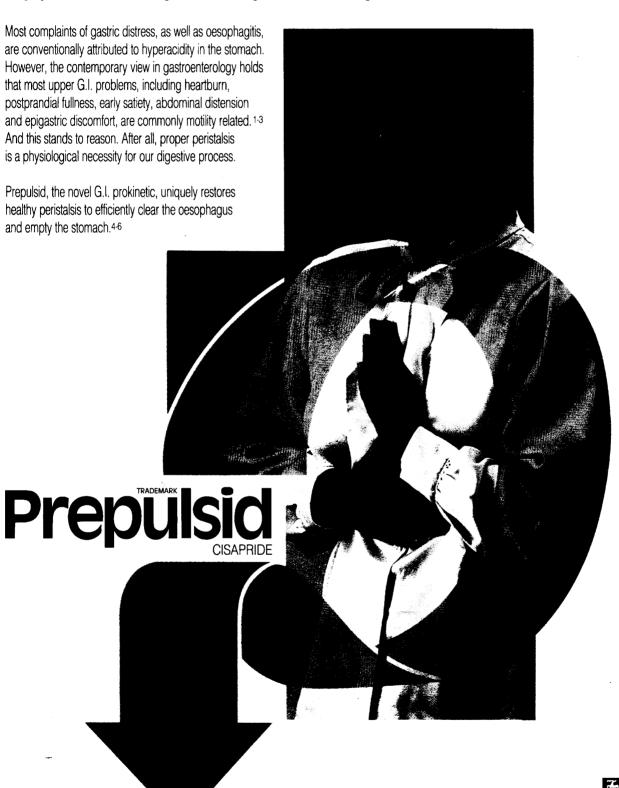
No doctor can afford to ignore statistics: most modern medical research uses statistics. This important and authoritative book provides clear information on designing studies, applying statistical techniques, and interpreting studies that use statistics. It can be easily understood by those with no statistical training and should be read by all those who want to keep abreast of new developments.

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EPIDEMIOLOGY FOR THE UNINITIATED — Geoffrey Rose, D J P Barker

Epidemiology has its own techniques of data collection and interpretation and its necessary jargon of technical terms, and in *Epidemiology For The Uninitiated* the authors guide the novice expertly through the theory and practical pitfalls. The second edition of this popular *BMJ* handbook has been revised to include further details of epidemiological methods and some of their more dramatic applications, such as the investigations on the Spanish cooking oil epidemic, and AIDS. *UK* £4.95; *Abroad* £6.00; *US\$14.00 BMA members* £4.45 or £5.50 *ACP members US\$12.00*

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