

Surviving Antibiotic expert group meetings

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Standard Treatment Guidelines

- Delegation of most management to non-medical staff
- Availability of therapy for the whole population
- Early institution of appropriate therapy
- Implementation of a rational essential drugs policy
- Minimisation of inappropriate therapy
- Correct dosing



Standard Treatment Guidelines

Antibiotic Guidelines

Delay emergence of antimicrobial resistance

| Year | PNG | NT | TG: Abiotic |
|-------|-----------------------------------|------------------------------|--|
| 1966 | MO's Pocket Book | Diarrhoea "slide-rule" | |
| 1974 | 1 st Ed Paediatric STM | | |
| 1977 | 1 st Ed Adult STM | | |
| 1978 | | | 1 st Ed |
| 1980s | | ARI & Syphilis Protocols | |
| 1992 | | 1 st Ed CARPA STM | 7 th Ed |
| | | | Remote Section |
| 1998 | | | 10 th Ed Remote Mainstreamed |
| 2003 | | 4 th Ed CARPA | 12 th Ed |
| 2014 | | 6 th Ed CARPA | 15 th Ed |

| Year | PNG | ΝΤ | TG: Abiotic |
|-------|-----------------------------------|--|--|
| 1966 | MO's Pocket Book | Diarrhoea "slide-rule" | |
| 1974 | 1 st Ed Paediatric STM | | |
| 1977 | 1 st Ed Adult STM | | |
| 1978 | 1996 | | 1 st Ed |
| 1980s | | CENTRAL AND NORTHERN AUSTRALIA AND OTHER REMOTE AREAS | |
| 1992 | Antibiotic Guidelines | The following guidelines have been developed primarily for use by doctors, nurses and Aboriginal health workers in rural Aboriginal communities. High morbidity and mortality from bacterial infections justify early appropriate empirical antimicrobial therapy. Emphasis is placed on supervised regimens where possible, utilising intramuscular and single dose therapies and less frequent dosing. Storage requirements of antimicrobials must also be considered. Bicillin All-Purpose is a heat-stable powder for intramuscular injection which contains a mixture of benzyl, procaine and benzathine penicillin. If it is not available benzathine | 7 th Ed Remote Section |
| 1998 | | penicillin alone (Bicillin L-A) can be used, see Table 6, p. 201. Studies on organism prevalence and antimicrobial resistance patterns in the Northern Territory, northern Western Australia and northern Queensland are reflected in the guidelines. <i>Streptococcus</i> <i>pyogenes</i> remains important, with subsequent rheumatic heart disease and glomerulonephritis occurring. Erythromycin and roxithromycin resistance in <i>Staphylococcus aureus</i> is common, as is <i>Escherichia coli</i> resistance to (amoxy)ampicillin, sulphonamides and trimethoprim. Beta-lactamase production in <i>Haemophilus</i> | 10 th Ed Remote Mainstreamed |
| 2003 | | influenzae has emerged. Penicillinase-producing Neisseria gonorrhoeae (PPNG) remains rare in communities, but ongoing surveillance is critical. Reference is made to the main guidelines where regional circumstances do not apply. Doses are generally not specified in the text of this section. Refer | 12 th Ed |
| 2014 | | to Table 6, p. 199, for weight-related drug doses unless detailed in the text. Timing of doses in relation to food appear in the main guidelines, see Table 7, p. 203. | 15 th Ed |

Minimalist Antibiotics in Alice in the early 1990s

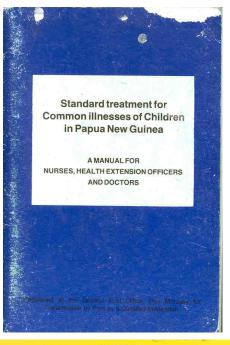
Penicillin

Gentamicin

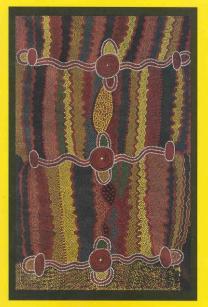
Chloramphenicol

Metronidazole

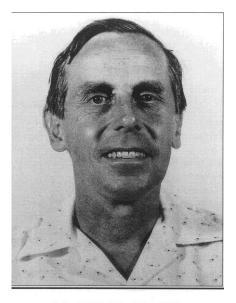




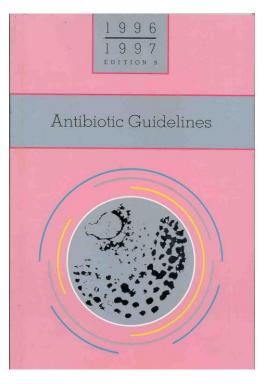
CARPA Standard Treatment Manual



3rd Edition



John Biddulph 1935-1998

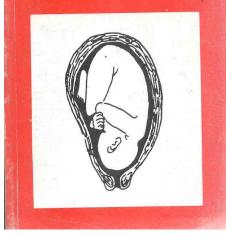


Standard Treatment for Common Illnesses of Adults in Papua New Guinea

A MANUAL FOR NURSES, HEALTH EXTENSION OFFICERS AND DOCTORS



Manual of Standard Managements in Obstetrics and Gynaecology for Doctors, H.E.O.s and Nurses in Papua New Guinea



Papua New Guinea: our forgotten friends & colleagues?





The body of a PNG national who died of TB in Australia is repatriated across the border last Thursday, 20 October, from Saibai. Photo: STEFAN ARMBRUSTER, SBS.





Used as the Ken Harvey "Vaccine"

"Immunise practitioners against irrational marketing forces"

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- "Irrational" from an antimicrobial stewardship perspective BUT
- Not irrational from a company/shareholder perspective

Used as the Ken Harvey "Vaccine"

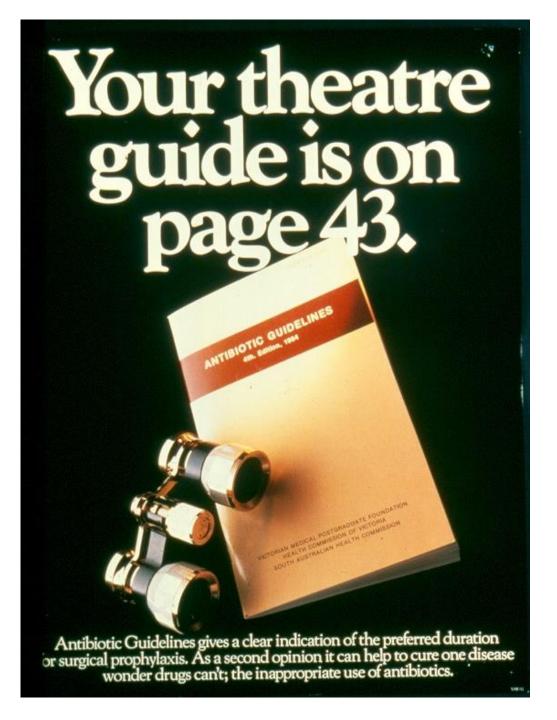
"Immunise practitioners against irrational marketing forces"

- "Irrational" from an antimicrobial stewardship perspective BUT
- Not irrational from a company/shareholder perspective

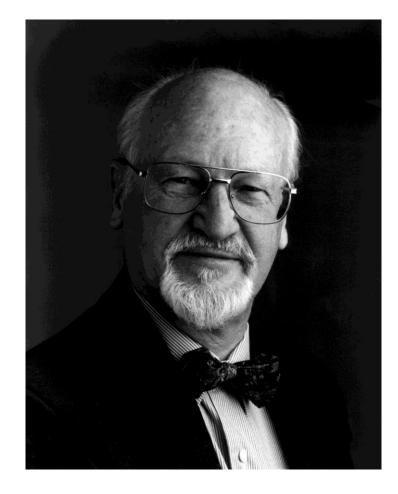
"That stuff doesn't influence me at all. I don't even know what drug is on my pen. I just go for the food."











Laurie Mashford Chair AB3-AB9 1982 - 1996

W John Spicer Writing Group 1978 - 1996 Chair AB11-AB12



AB8 1994















Rob Moulds Chair AB14-15; 2010-2014 Developing Countries Program since 2007



Meeting for the preparation of the 4th Edition of the Fiji Antibiotic Guidelines



Observations Therapeutic Guidelines: Antibiotic

Why do experts participate?



- Many medical professionals have a strong commitment to pass on their experience to junior practitioners
- Experts find the unconstrained debate with their peers regarding best practice and the interpretation of evidence to be an extremely valuable learning experience
- Experts regard participation in an expert group to be an 'honour'
- Experts enjoy working with TGL ... it is functional and efficient ... their time is not wasted
- Only expenses and a modest sitting fee is provided by TGL ... most experts do not claim the sitting fee!



Observations Therapeutic Guidelines: Antibiotic

Expert group issues



- Experts are selected on the basis of: their clinical & scientific expertise, scholarship, their willingness to challenge orthodox beliefs and their independence
- Avoid inviting a content expert in a narrow field who the other members will be wary of questioning
- Ability to work cooperatively, and to a schedule, is critical
- Ensure most of the experts can (and will) attend meetings

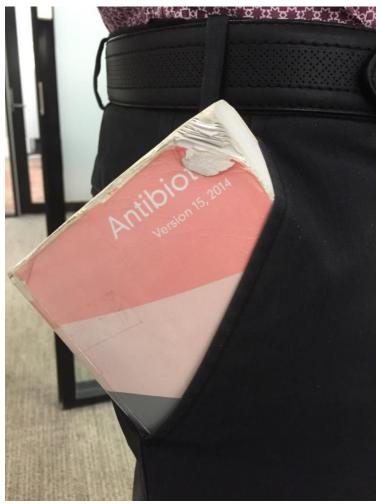


Observations Therapeutic Guidelines: Antibiotic

When you do all the work on a group assignment and someone else takes the credit



Observations Therapeutic Guidelines: Antibiotic What about the books? Only 12% of revenue



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7978-2018

Infectious diseases topics in other Therapeutic Guidelines titles

Related topics in other books in the Therapeutic Guidelines series or in eTG complete or miniTG include:

In Therapeutic Guidelines: Dermatology

- some skin infections (eg boils and carbuncles, impetigo, recurrent staphylococcal skin infections, herpes simplex skin infections [including genital herpes], human papillomavirus [including genital warts], vulvovaginal candidiasis, tinea)
- · some infestations and bites (eg lice, scabies).

In Therapeutic Guidelines: Gastrointestinal

 gastrointestinal tract infections (eg infectious diarrhoea, diverticulitis, *Helicobacter pylori* infection)

· viral hepatitis.

In Therapeutic Guidelines: Oral and Dental

· acute odontogenic infections.

In Therapeutic Guidelines: Respiratory

 some respiratory tract infections (eg bronchiolitis, bronchitis, acute exacerbations of chronic obstructive pulmonary disease, croup, rhinosinusitis).

See the index for a full listing of related topics.

Observations Therapeutic Guidelines: Antibiotic What about open access? Trust: key factors for guidelines

- Independent
- Authoritative and credible: expert and independent interpretation of evidence, endorsed by peak professional bodies

Therapeutic Guidelines PHN Pathways UpToDate NPS Information Australian Medicines Handbook MIMS



Observations Therapeutic Guidelines: Antibiotic Some consensus issues Therapeutic Guidelines

- Gentamicin contracting role?
- Penicillin/gentamicin for moderate/severe CAP?
- Role of pneumonia severity scores
- Dosing of vancomycin
 - ✤ loading dose
 - ✤ children
- Prophylaxis for bacterial endocarditis (with dentists)
- Cefaclor and roxithromycin contracting role



Observations Therapeutic Guidelines: Antibiotic Impact on AMR?

Therapeutic Guidelines

MJA 207 (2) • 17 July 2017

Research

Antibiotics for acute respiratory infections in general practice: comparison of prescribing rates with guideline recommendations

Amanda R McCullough¹, Allan J Pollack², Malene Plejdrup Hansen³, Paul P Glasziou¹, David FM Looke⁴, Helena C Britt⁵, Christopher B Del Mar⁶

Conclusions: Antibiotics are prescribed for ARIs at rates 4–9 times as high as those recommended by *Therapeutic Guidelines*. Our data provide the basis for setting absolute targets for reducing antibiotic prescribing in Australian general practice.

Annals of Internal Medicine

Editorial

Antibiotic Overuse: Clinicians Are the Solution

Barbara E. Jones, MD, MSc Matthew H. Samore, MD Salt Lake City VA Health System and University of Utah Salt Lake City, Utah

• Vol. 166 No. 11 • 6 June 2017

Antibiotics Opinion

Trust me on antibiotics, doctor - I'm a patient <mark>Anne Perkins</mark>



Evidence that finishing the course may fuel bacterial resistance will test our relationship with experts - and perhaps begin the healing process

Anne Perkins is a Guardian columnist





Adve

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G fr st

Anthropological and socioeconomic factors contributing to global antimicrobial resistance: a univariate and multivariable analysis Lancet Planet Health 2018;



2:e398-405

Peter Collignon, John J Beggs, Timothy R Walsh, Sumanth Gandra, Ramanan Laxminarayan

See **Comment** page e376

Multivariate analysis showed that better infrastructure and governance were significantly associated with lower measures of antimicrobial resistance, but that antibiotic consumption was not significantly associated with higher antimicrobial resistance.

Reducing antibiotic consumption will not be sufficient to control antimicrobial resistance because contagion-the spread of resistant strains—seems to be the dominant factor.

Improving sanitation, increasing access to clean water, ensuring good governance, plus increasing public health-care expenditure all need to be addressed to reduce global antimicrobial resistance.

Primordial prevention of trachoma

- Housing
- Education
- Employment
- Communications



Transport & access to services

Primordial prevention of scabies

- Housing
- Education
- Employment
- Communications



Transport & access to services

Primordial prevention of pyoderma

- Housing
- Education
- Employment
- Communications



Transport & access to services

Primordial prevention of ARF/RHD

- Housing
- Education
- Employment
- Communications



Transport & access to services

Primordial prevention of antimicrobial resistance

- Housing
- Education
- Employment
- Communications



Transport & access to services





MAKE ANTIBIOTICS GREAT AGAIN