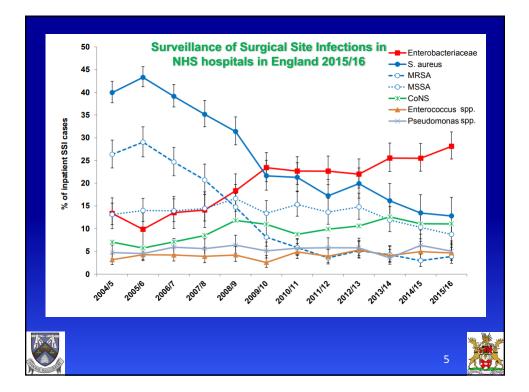




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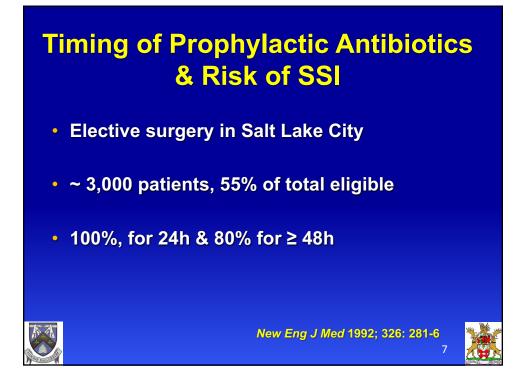
IV surgical prophylaxis: why do we use it?

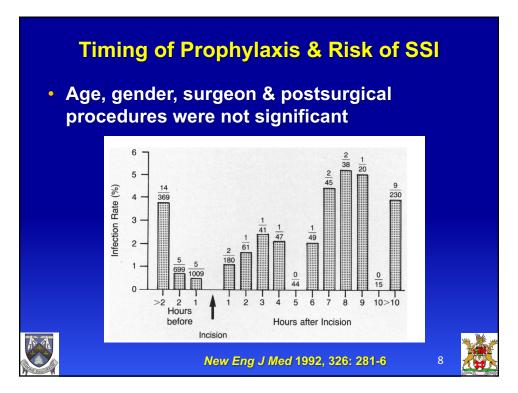
- To prevent surgical infection
- Evidence based. Really? What quality of evidence?
- Prior to incision
- Need rapid tissue levels
- Choice of antibiotic depends on likely contaminating microbes
- Single dose currently in vogue



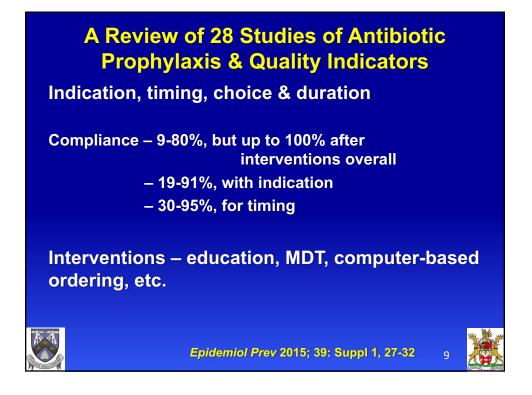
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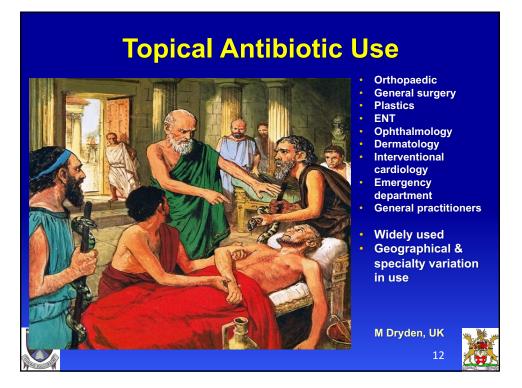
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Definition

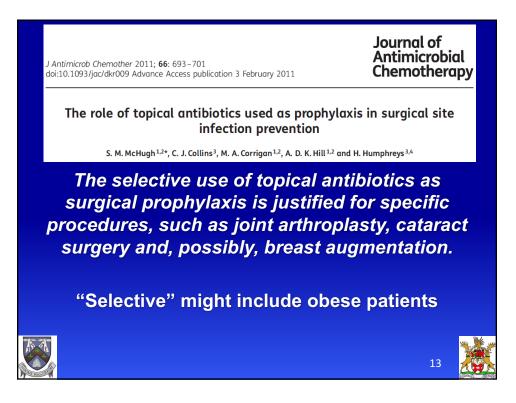
"Antibiotic agents applied directly to the surgical site intra-operatively or postoperatively *via* powders, sponges, irrigation solutions, sealents or dressings"

Antiseptic agents excluded

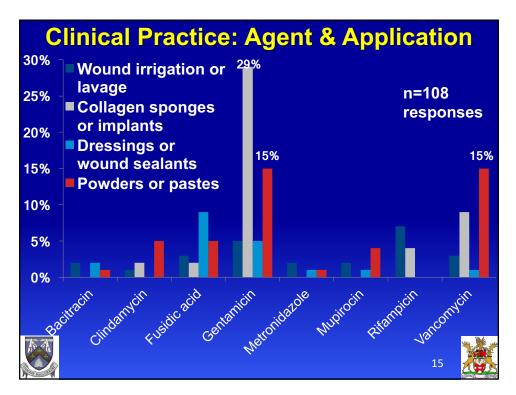




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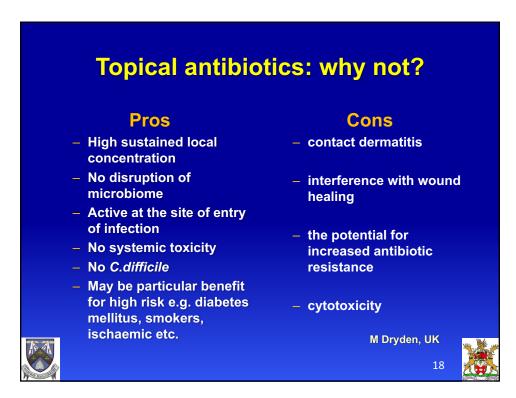
Opinion: Topical Antibiotics to Prevent SSI 56% There is a significant body 31% 13% of evidence in favour of use 46% 22% 339 Are cost effective 35% Rarely result in detrimental 34% side effects for the patient 31% 81% Don't contribute to 12% antibiotic resistance 53% n=160 Confer additional benefits 24% responses to other forms of 23% prophylaxis% 60% 80% 100% 20% 40% Disagree/Strongly disagree Neither agree or disagree 16

British Society of Antimicrobial Chemotherapy (BSAC) Literature Review

June 2010 to June 2017 focussing on orthopaedic (21), cardiac surgery (11) & abdominal studies (7)

"Conflicting results within & between studies depending on the type of surgical site infection (SSI); total, deep, superficial & organ space. Studies are largely underpowered, not controlled and with little standardisation meaning results can only be treated as trends rather than confirmed effects"

17



Short-Term Antibiotic Treatment Has Differing Long-Term Impacts on the Human Throat and Gut Microbiome Jakobsson HE et al., , March 24, 2010

Systemic antibiotic use is like napalm – it destroys all with long-term consequences. It is ecological vandalism.

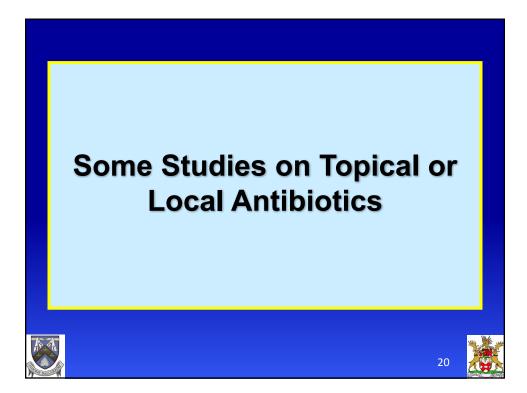


Four years after treatment high levels of the macrolide resistance gene *erm*(B) were found, indicating that antibiotic resistance, once selected for, can persist for longer periods of time than previously recognized.

This highlights the importance of a restrictive antibiotic usage in order to prevent subsequent treatment failure and potential spread of antibiotic resistance.

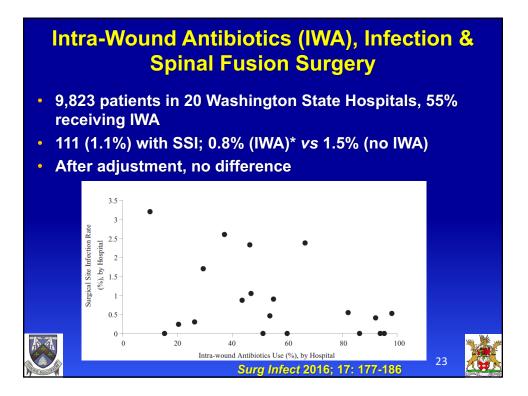
M Dryden, UK 19

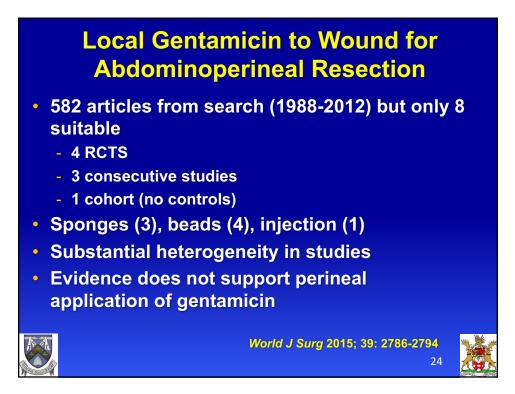


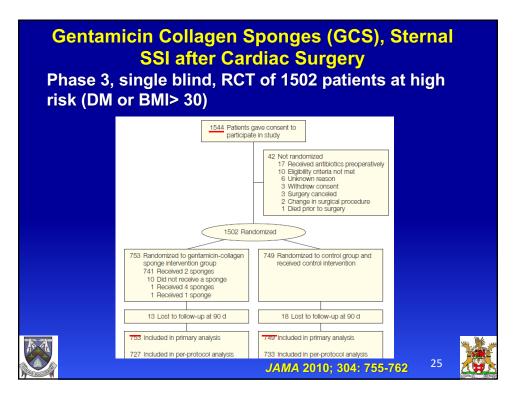


Chloramphenicol						
BMJ	RESEARCH Does single application of topical chloramphenicol to high risk sutured wounds reduce incidence of wound infection after minor surgery? Prospective randomised placebo controlled double blind trial		 Ophthalmology 			
			 ENT minor surgery 			
Tames Cosk University, School of Metroine, Madaw (Bose Hoopin), Commission 4762, Autoritan Tames Cosk: University, Commission 48410 (Centre, Molary, Queentined 3740, Metroicost, Mateica, Queentand 4740, Tamescost, Mateica, Queentand 4740, Base Hospital, Queentine 4740, Tomostol General Hospital, Queentine 4740, Tomostol General Hospital,	ABSTRACT Objective for determine the effectiveness of a single application of logical; chickompherical obstrates in preventing wound infection after minor dematidiagical assignment of the single single single single single base between the single single single single single single Setting Printary access in regional carter in Nacessian, Australia.	infection. Despite this, it is regularly used in areas outside in main indication. Before our mady, several of the investigating coursel particultures that applied it to mainted wounds an peoplylican sugnature sevend infec- tion. An usery of OLA placed sugness representation to the particular several several several several matching of the several several several several matching of the several several several several base? A comprehensive Meditorsesurch found solutions base? A comprehensive Meditorses archives the fast and several several several several several several base? A comprehensive Meditorses and Schwarphe- enter study anisation to the use of typical chloramphe-	• Dermatology			
Queensistend 4740 Correspondence to C / Fread dam/bedigtoucktuar Chr. His an: (Beg 2007-538) 2012 auf (1)156/cm; 2083	Interventions A single topical close of chickamphenical (mr488) or parafilic oliverent (mr484), parachili, Main aucone measure incidence al rifection. Results The incidence of rifection is the chickamphenical group (6.5%; 5%) confidence interval 4, 9 to 3.8) was significantify lower than tait. In the control group (11.0%; 7,9 to 15.1) (P=0.010). The absolute reduction in infection relative risk of wound infection in the caretol group avas 1.75 (75%) confidence interval 1.40 (2013).	nicol oursness on wounds, this study investigated the opplication of chloramphenicol outminet to wounds after hip replacement. The incidence of wound infection in the intervention groups are reduced (We 3 8%), but he sample size was small and the results were not stastistically significant. Topical ocalar chloramphenicol is widely used in the United Kingdom and Australia for the treatment of conjunctivity, but is very narely prescribed for this indication in the United States' Some controversy	Plastic surgery			
	In the intervention group. The number neckled to iterativas 22.8. Conclusion Application of a single close of topical charamphine ito high risk source dwords after minor surger produces a moderate biolokie relaction in flection rate that is satisfatably but net clinically applicant. Taki egistration Current Costrolled Trials (SIC(17)22205)3.	proviously existed about the link between aplantic ansemia and topical could cohordingheneid, on the basis of a small number of single case reports, ¹ but how instranational case-could multis provide the support for this association. Although the association between coulder detorruphenics and apoint ensemia cannot be excluded, the risk is less than one in a million per unstanter casers. ¹ On includence of aplatic assemia after dermanological application have been reported, despite videoprent day.	de no con con con per mu tot			
			21 			





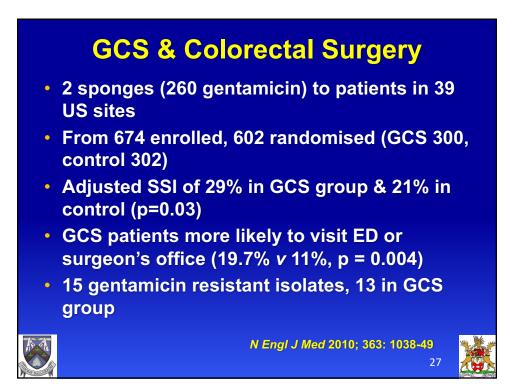


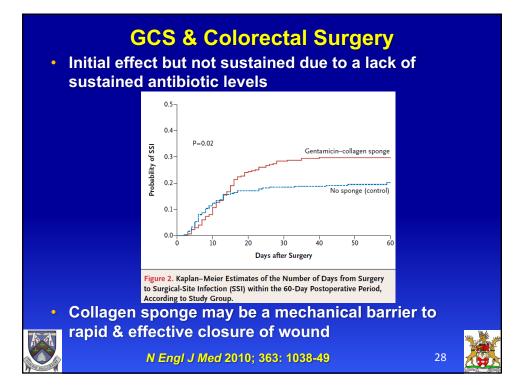


GCS & Sternal SSI after Cardiac Surgery

Per Protocol Analysis	GCS (727)	Control (749)
Any SSI	8.4%	8.6%
Surgically treated SSI	3.2%	4.9%
Superficial SSI	6.6%	6.1%
Deep SSI	1.8%	2.5%
Re- hospitalisation for SSI	3.0%	3.3%
Post-operative length of stay	6.0 d	6.0 d

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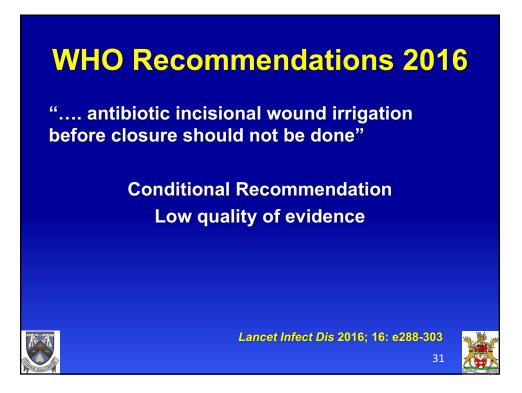




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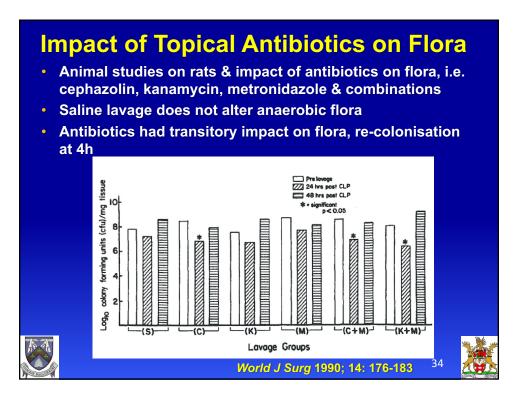
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Impact of Topical Vancomycin in Spinal Surgery

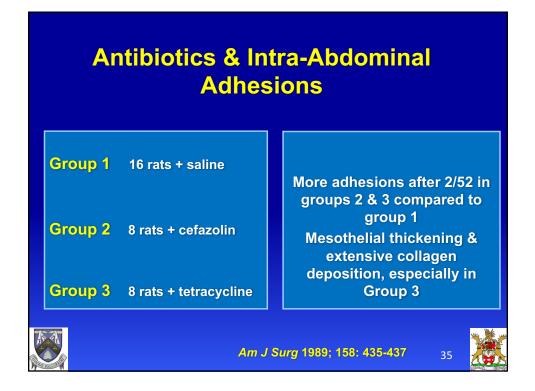
- Retrospective review of 981 patients receiving 1-2 gr vancomycin, 2011-13
- 6.7% SSI 5.2% had + ve cultures; 44/51 (86%) Gram + ve, & 31 (61%) Gram negative Historical controls had Gram-ves in 21% (p=0.0001)
- Use of topical vancomycin for prophylaxis shifts causes to Gram negative

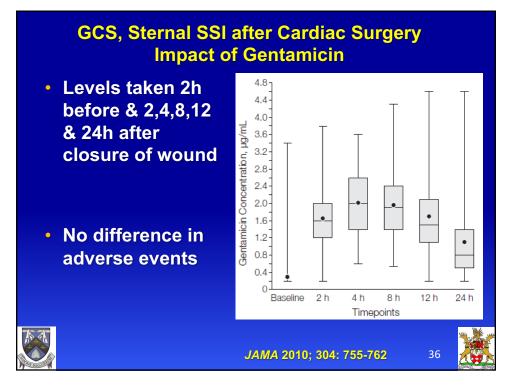
Spine 2014: 39: 530-555

33

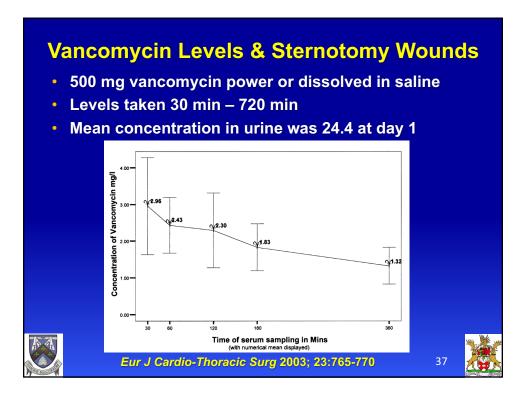


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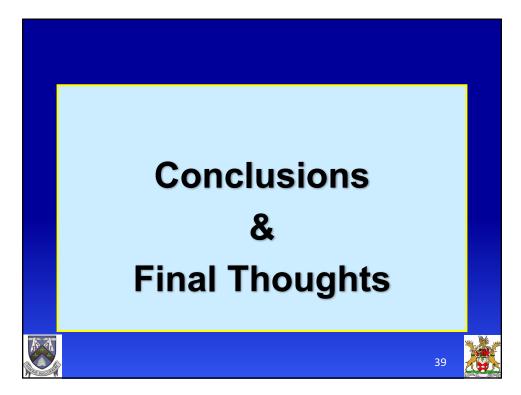


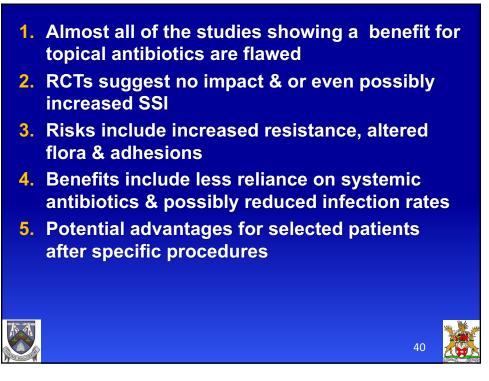
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Safety Quality of Antibiotic Preparation Site of Preparation of Antibiotic Solutions Percent (%) 40 35 30 25 20 15 10 5 0 OR prior to use In compounding In satellite In satellite I do not know during procedure pharmacy then pharmacy for the pharmacy for sent to OR OR Labor and Delivery n = 106 **Preparation Site** Am J Infect Control 2017; 45: 1259-1266 38

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	www.webbertraining.com/schedulep1.php
May 3, 2018	(FREE WHO Teleclass - Europe) SPECIAL LECTURE FOR 5 MAY Speaker: Prof. Didier Pittet, University of Geneva Hospitals
May 10, 2018	(FREE CBIC Teleciass) HOW THE CERTIFICATION BOARD OF INFECTION CONTROL (CBIC) WORKS FOR YOU Speaker: Ivan W. Gowe, CBIC Director, and Lita Jo Henman, CBIC Past President
May 17, 2018	THE SILENT TSUNAMI OF AZOLE-RESISTANCE IN THE OPPORTUNISTIC FUNGUS ASPERGILLUS FUMIGATUS Speaker: Prof. Paul E. Verweij, Radboud University Center of Expertise in Mycology, The Netherlands
May 28, 2018	(FREE Teleclass – Broadcast live from the IPAC Canada conference) TREKKING SAFELY THROUGH THE STORM – MANAGING COMPLEX IPAC ISSUES Speaker: Dr. Mark Joffe, Alberta Health Services Live broadcast sponsored by GOJO Canada (www.gojocanada.ca)
May 29, 2018	(FREE Teleclass – Broadcast live from the IPAC Canada conference) SIMULATION AS AN EDUCATION TOOL Speaker: Dr. Ghazwan Altabbaa and Dione Kolodka, Rockyview Hospital, Calgary,

