NHS Foundation Trust

Audit of Foot Clinic Antibiotic Protocol: Rationalised Antibiotic Prescribing and No Additional Cos

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ckground: At the Diabetic Foot Study Group meeting in Bled in 2009 we presented our antibiotic guideline for the empirical management of diabetes related foot infections (Fig 1). These were olemented in January 2009, and initial findings suggest that we have rationalised yet broadened the scope of outpatient prescribing options¹.

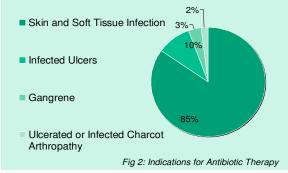
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	FIRST CHOICE		PENICILLIN ALLERGY		
	PARTIAL OR FULL THICKNESS	EXTENDING TO UNDERLYING SOFT TISSUE/ BONE	PARTIAL OR FULL THICKNESS	EXTENDING TO UNDERLYING SOFT TISSUE/ BONE	DURATION
D	Co-amoxiclav 625mg TDS	Co-amoxiclav 625mg TDS	Clarithromycin 500mgs BD	Clarithromycin 500mgs BD Metronidazole 400mgs TDS	1-2 weeks
DERATE	Co-amoxiclav 625mgs TDS	Co-amoxiclav 625mgs TDS +/- Ciprofloxacin 500mgs BD	Clindamycin 150mg-300mg QDS	Clindamycin 150mg-300mg QDS +/- Ciprofloxacin 500mgs BD	2-4 weeks
/ERE - RDERLINE MISSION	Ceftriaxone 1-2g OD IM Ciprofloxacin 500mgs BD Metronidazole 400mg TDS		Ceftriaxone 1-2g OD IM Ciprofloxacin 500mgs BD Metronidazole 400mg TDS		2-4 weeks
/ERE - EDS MISSION	Piperacillin/tazobactam 4.5g TDS IV		Clarithromycin 500mg BD IV Metronidazole 400mg TDS IV Ceftazidime 1-2g TDS IV Substitute with ciprofloxacin 500mg BD in true penicillin allergy.		2-4 weeks

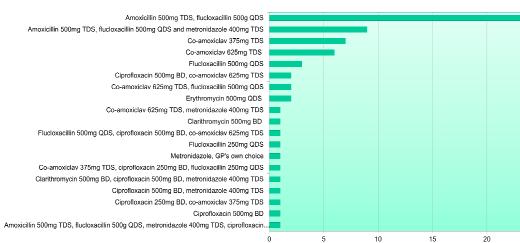
Fig 1: Our guideline for the antibiotic management of diabetes related foot infections in adults

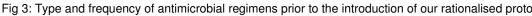
m: To investigate the economic impact of the introduction of this new protocol.

ethods: A retrospective analysis of case notes of all the patients who attended our tertiary diabetic of clinic with a new episode of a diabetes related foot infection was carried out between March 97and October 2010. We excluded patients for whom antibiotics had been prescribed based on crobiological investigations (e.g. swabs), or patients requiring parenteral antibiotics. We recorded e date of presentation to our clinic, the degree of infection, and the empirical antibiotic regime escribed. We then compared the number, range and cost of antibiotic regimens prescribed before d after our guideline was introduced, assuming British National Formulary 2010 pricing for a three eek course of treatment.

esults: 288 case notes were available for nalysis. Of these, 144 patients (50%) were ccluded because they either did not have a abetes related foot infection or they were not escribed oral antibiotics empirically. The clinical dications for empirical antibiotic prescribing of e patients included in the study (n=144) is nown in Fig 2. 80 patients were treated npirically after the introduction of the protocol, nd these patients were prescribed eight different ntibiotic regimens (Fig 4).







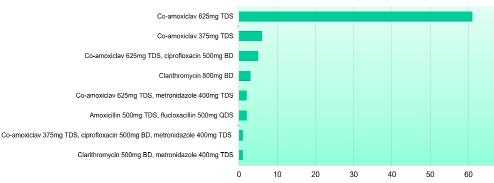


Fig 4: Type and frequency of antimicrobial regimens after the introduction of our protoc

- The total cost of prescribing before protocol introduction was £1,095.73 (£17.12 per patient).
- Since January 2009 the total cost was £1,317.51 (£16.47 per patient).

Discussion: By introducing this antibiotic protocol we have rationalised the prescribing of antibiotics in our diabetic foot clinic with **no** additional drug cost. This is despite a significant increase in use of co-amoxiclav which has a relatively high purchase cost. We have also simplified regimens in the expectation of improving compliance.

1. K Dhatariya et al. Development of a rationalised antibiotic protocol for inpatient and outpatient use in a tertiary diabetic foot clinic. DFSG Oral Abstract P46 (2009).