



An audit of foot clinic antibiotic protocol: Rationalised prescribing, appropriate anti-microbial cover and no additional cost

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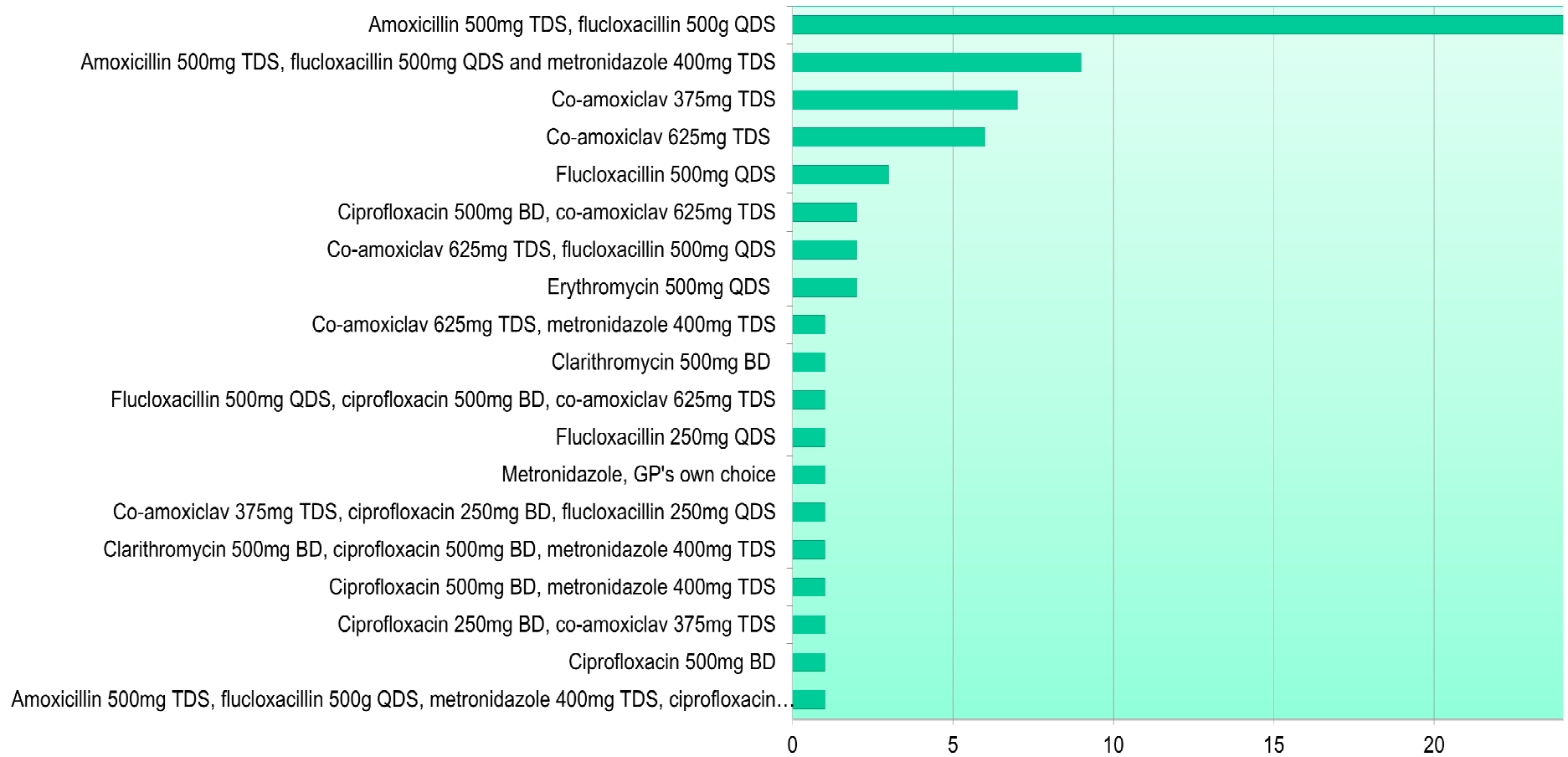
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Background

- In 2008 our team recognised that we needed a cohesive approach to empirical antimicrobial prescribing
- We had 19 different regimens being used, with no clear reasons for this
- We audited our antibiotic use

Our Previous Empirical Regimens



Costs

- We analysed 144 patient details
- Based on 2010 BNF prices for an average 3 week course, the average cost of treatment was £17.12 per patient

What We Did Next

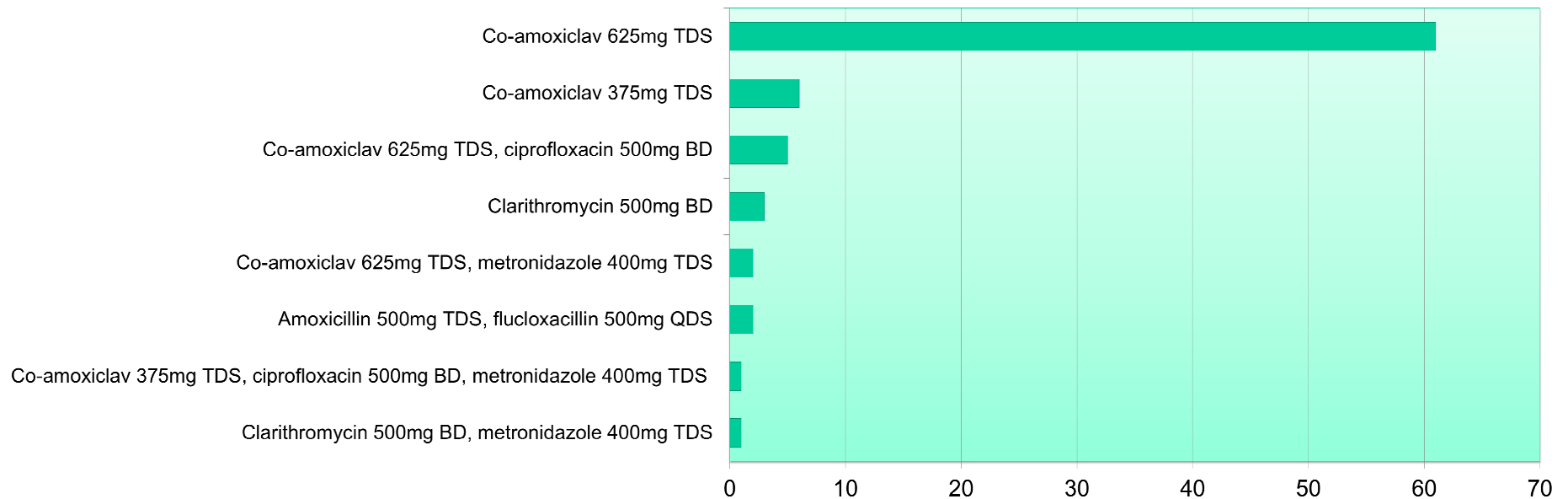
- We gathered together all interested parties
 - Diabetologists
 - Vascular surgeons
 - Orthopaedic surgeons
 - Microbiologists
 - Podiatrists
 - Pharmacists
- We developed
 - A rationalised antibiotic formulary specifically for the inpatient and outpatient diabetic foot

Our Foot Infection Protocol

	FIRST CHOICE		PENICILLIN ALLERGY		DURATION
	PARTIAL OR FULL THICKNESS	EXTENDING TO UNDERLYING SOFT TISSUE/BONE	PARTIAL OR FULL THICKNESS	EXTENDING TO UNDERLYING SOFT TISSUE/BONE	
MILD	Co-amoxiclav 625mg TDS	Co-amoxiclav 625mg TDS	Clarithromycin 500mgs BD	Clarithromycin 500mgs BD Metronidazole 400mgs TDS	1-2 weeks
MODERATE	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
SEVERE - BORDERLINE ADMISSION	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
SEVERE - NEEDS ADMISSION	Piperacillin/tazobactam 4.5g TDS IV		Clarithromycin 500mg BD IV Metronidazole 400mg TDS IV Ceftazidime 1-2g TDS IV		2-4 weeks

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Revised Costs

- We then analysed the next 80 patients
- Based on 2010 BNF prices for an average 3 week course, the average cost of treatment was £16.42 per patient
- We had 94% clinical adherence to the protocol

Summary

- We have rationalised the prescribing of antibiotics in our diabetic foot clinic
- **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 resulting in improved prescribing compliance

Thank you for your attention