# Microbiological flora in osteomyelitis complicating diabetic foot ulceration **Department of Diabetes and Endocrinology**

# Introduction

• Diabetic foot ulceration (DFU) is associated infection, cellulitis and osteomyelitis.

# Aims

- •To identify the microbiological flora in pati with DFU complicated by osteomyelitis
- To determine the correlation between organ and treatment outcome.

### Materials & methods

- Observational study of patients reviewed multidisciplinary diabetes foot team
- Study period: December 2017 to September 20
- Data collected included **Baseline characteristics** Clinical features present Imaging performed

# Results

- 1006 episodes of DFU in 771 patents
- 180 episodes were complicated by osteomyel
- Wound swab or tissue culture was performe 164/180 (91%) episodes.
- There was no difference in treatment duration osteomyelitis in the presence of Gram-positiv Gram-negative organisms (7.8 vs 7.6 weeks)

Presented by Dr Chloe Uffendell

C. Uffendell, S. Dwarampudi, K. Larsen, S. Dwarampudi, S. Miller, L. Wang, C. O'Dowd, U. Srinivas-Shankar

	Baseline characterist	ics and co	-morbi	dities			Suc	cessf	ul outc	ome
	Age (Mean, SD, years	)			67.4 (13.4)	70%				
	BMI (Mean, SD, kg/m2)				30.1 (7.9)					
	HbA1c (Mean, SD, mmol/mol) Smoker (%)				65.9 (23.2)	60%				
					15.0	50%				
	Ischaemic Heart Disea	ase (%)			29.4					
	Hypertension (%)				81.7	40%				
	Cerebrovascular accid	ent (%)			13.9	200/	(	65.1%		
	Hyperlipidaemia (%) Chronic Kidney Disease (%) Peripheral Neuropathy (%)				73.3	50%				
				35.6 88.3	35.6	20%				
					88.3	1.00/				
	Peripheral Arterial Dis	ease (%)			59.4 74.4	10%				
	Fomalo (%)				74.4 25.6	0%				
	Orgonicmo									
	Organisms	idenitifie	ed in o	steomy	elitis relat	ted DFU				_
	Anaerobes	idenitifie 9.76%	ed in o	steomy	elitis relat	ted DFU				Tre
	Anaerobes Corynebacterium	idenitifie 9.76% 7.93%	ed in o	steomy	elitis relat	ted DFU				Tre
ra	Anaerobes Corynebacterium m-negative bacteria (All)	idenitifie 9.76% 7.93% 22	ed in o	steomy	elitis relat	ted DFU				Tre
ra	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B	idenitifie 9.76% 7.93% 22	ed in o	steomy	elitis relat	ted DFU				Tre Gra
ra	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B Streptococcus (All)	idenitifie 9.76% 7.93% 7.93%	ed in o	steomy	elitis relat	ted DFU				Tre Gra
ra	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B Streptococcus (All) MRSA	idenitifié 9.76% 7.93% 7.93% 14.0%	ed in o	steomy	elitis relat	ted DFU			Concl	Tre Gra
ra	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B Streptococcus (All) MRSA Staphylococcus Simulans	idenitifié 9.76% 7.93% 7.93% 14.0% 8.54% 8.54%	ed in o	steomy	elitis relat	ted DFU				Tre Gra
	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B Streptococcus (All) MRSA Staphylococcus Simulans Staphylococcus Aureus	idenitifie 9.76% 7.93% 7.93% 4.88%	ed in o .0%	steomy	elitis relat				<ul> <li>Stap orga</li> </ul>	Tre Gra hyloce nism
ra	Anaerobes Corynebacterium m-negative bacteria (All) Staphylococcus Group B Streptococcus (All) MRSA Staphylococcus Simulans Staphylococcus Aureus	idenitifie 9.76% 7.93% 7.93% 8.54% 8.54%	ed in o .0%	steomy 4.5%	elitis relation				• Stap orga com	Tre Gra hylocenism plicat

- coccus aureus is the commonest associated with osteomyelitis ting DFU
- tion of a Gram-positive organism ated with a lower incidence of elitis resolution.



# with medical treatment



phylococcus

Streptococcus

eatment duration (weeks)

