

Ashwell, Simon and McGarry, Kenneth (2016) A regional root cause analysis of major diabetes-related lower limb amputations in the North East of England. In: 16th Malvern Diabetic Foot Conference., 18-20 May 2016, Malvern Theatres, Malvern, Worcestershire. (Unpublished)

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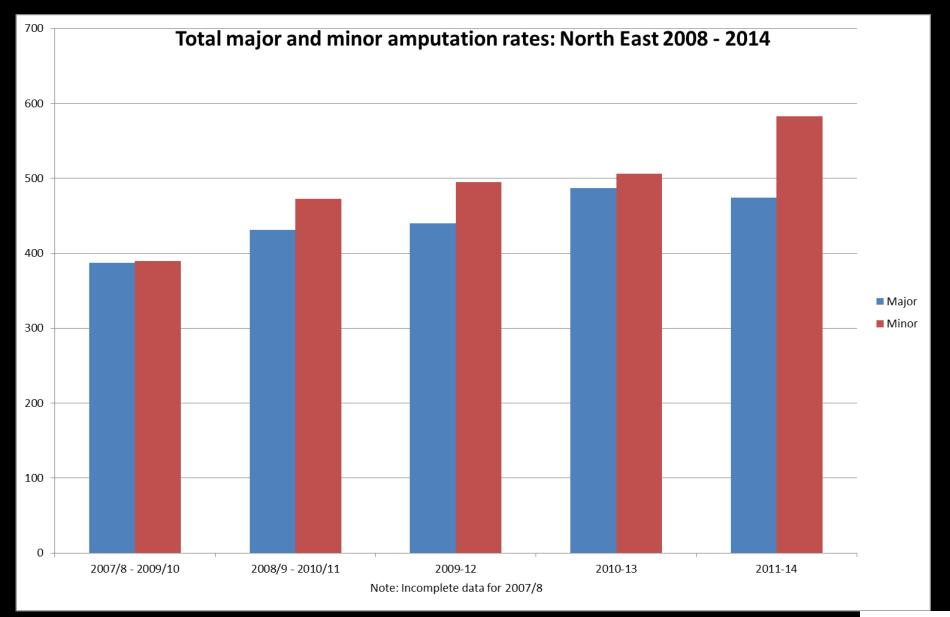
# A regional root cause analysis of major diabetes-related lower limb amputations in the North East of England

#### **Dr Simon Ashwell**

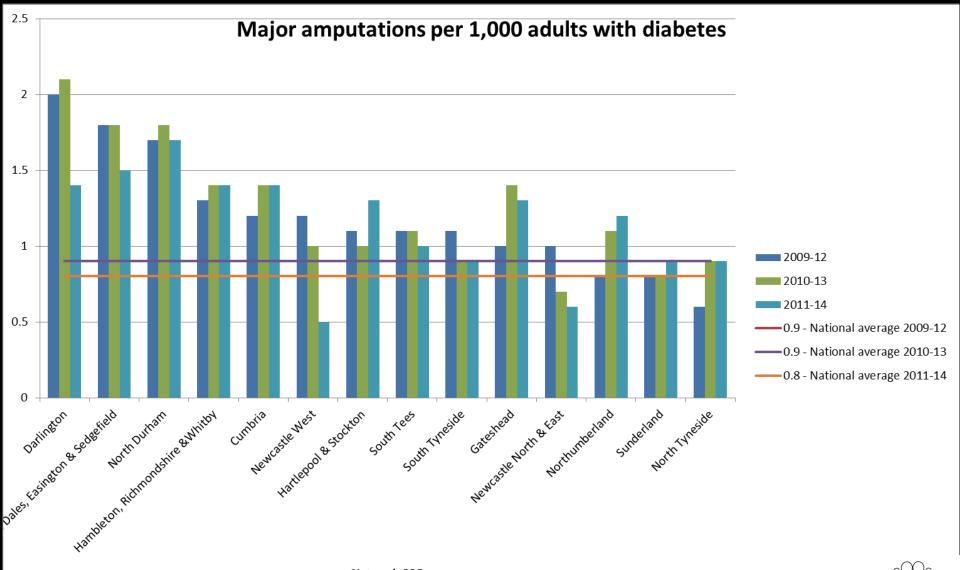
**Consultant Diabetes & Endocrinology** 

The James Cook University Hospital Middlesbrough







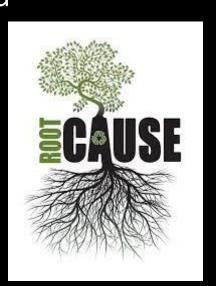






#### Aims

- Perform a root cause analysis of all diabetes related major lower limb amputations in the North East of England
- To examine the factors contributing to major diabetes-related lower limb amputation
- Investigate preventable causes of amputation
- Reduce major diabetes related amputations
- Long-term project





#### Methods

- Northern Diabetes Foot Care Network
- Trialled, developed and agreed data collection tool
- MDT case note review of all major amputations ASAP following amputation
- First interim analysis
- 1 November 2013- 31 October 2014

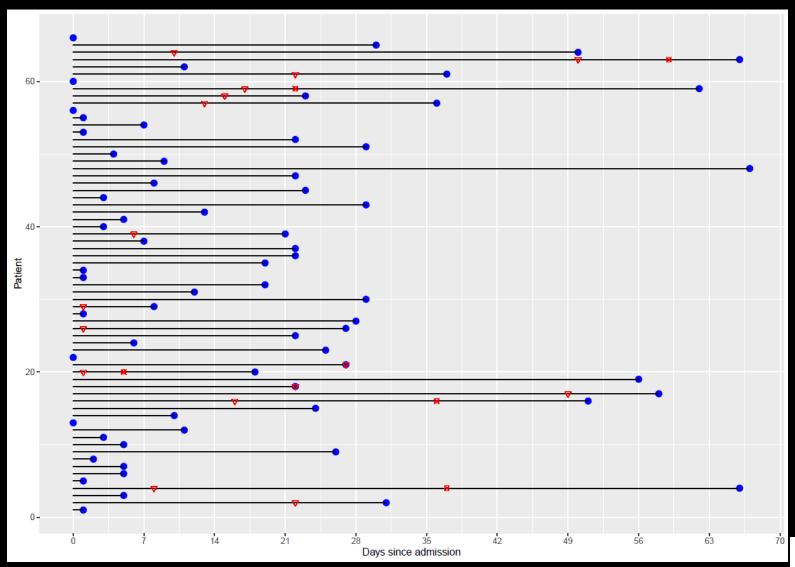


## Results - demographics

Amputations (n)	84
BKA (%)	63
Male (%)	78
Type 2 diabetes (%)	86
Renal Failure (%)	27
Partially sighted (%)	12
Non-elective admission (%)	64
Previous minor amputation (%)	34



## Results – treatment timeline



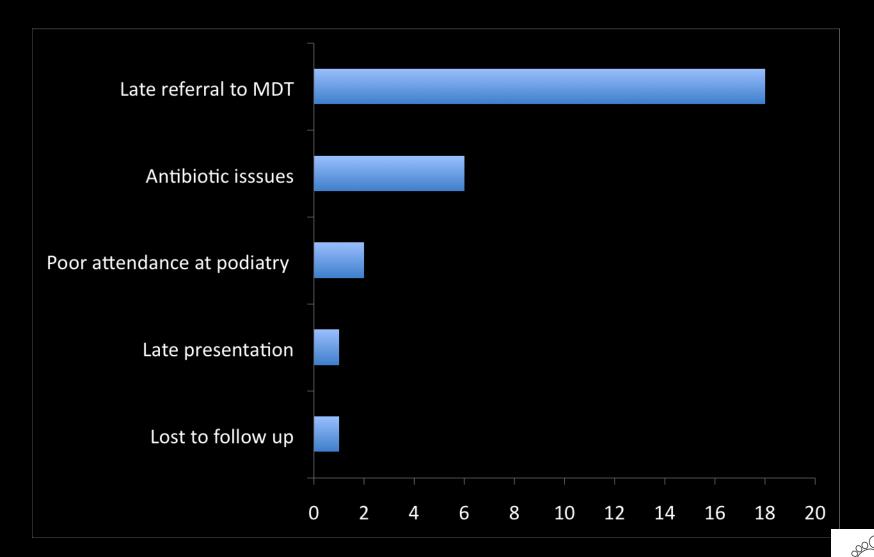


## Results – process of care

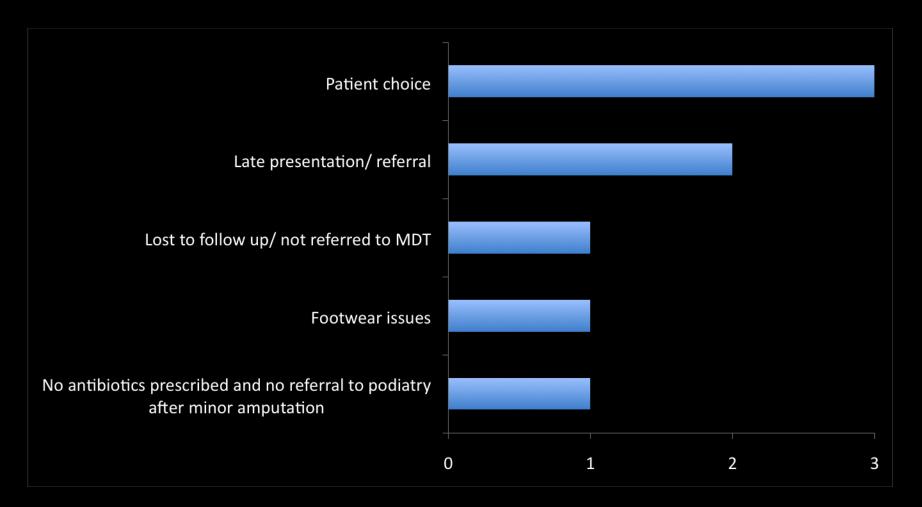
- 19% not seen by diabetes foot MDT within 6 months of major amputation
- 21% antibiotics not given in accordance with trust protocol/ microbiological sensitivities
- 26% not seen by member of diabetes foot MDT within 24h
- 10% not seen by member of diabetes foot MDT within 1 week
- 36% no foot imaging performed
- 38% patient concordance contributed



### Areas in which care thought to be suboptimal



### Preventable amputations (n=8, 14%)





## **Conclusions**

- Proof of feasibility
- Local & regional lessons
- Early referral to MDT
- Antibiotics
- Ongoing process



#### Collaborators

#### South Tees Hospitals NHS



**NHS Foundation Trust** 

Rebecca Buckworth

Kerry Jordan

Igor Kubelka

**Paul Mackenney** 

Ian Nichol

**Emma Scott** 

**Ellie Thomas** 



The Newcastle upon Tyne Hospitals



NHS Foundation Trust

**Lucy Wales** Ahmad AbouSaleh Nikki Coates

#### County Durham and Darlington **NHS**

**NHS Foundation Trust** 

MW Khan

Sara Haq

Linda Hicks

Jonathan Duffy

P Partha

Srikanth Mada

Paul Peter

Giri Tarigopula

#### Northumbria Healthcare 📈 🤼



**NHS Foundation Trust** 

Simon Eaton

City Hospitals Sunderland NHS



**NHS Foundation Trust** 

Elaine Ricci **Diane Knowles** Rahul Nayar





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