# Podiatrists Identifying Irregular Pulses AF Strategy Meeting 16<sup>th</sup> May 2019 Linda Hicks, Podiatrist CDDFT Kate Mackay AF Programme Lead AHSN - NENC









## Diabetes Podiatry & Detection of AF

- It was identified that podiatrists were in an ideal position to opportunistically identify irregular pulses during diabetic foot checks.
- All patients with diabetes should have an annual foot check which includes palpation of pedal pulses <a href="https://www.nice.org/NG19">www.nice.org/NG19</a>
- A 3 month pilot (Jan-March 2016) was conducted by the podiatry department County Durham & Darlington NHS Foundation Trust (CDDFT) and has been part of the wider AF programme run by Academic Health Science Network for NE & Cumbria in conjunction with Northern England Clinical Networks.
- Podiatrists & Foot care Technicians when carrying out pedal pulse checks use a hand held Doppler to listen to the quality of the pulse.
- Extra training was provided & staff were encouraged to listen for irregularities, staff were advised to listen to the pulse for at least 30 seconds.





## County Durham and Darlington NHS Foundation Trust

# Using Doppler to check Pedal Pulses







## **Training Included**

- Listening for irregularities, pulses must be listened to for at least 30 seconds
- If an irregular pulse was identified in a patient with no AF diagnosis an appointment was made with the GP for a 12 lead ECG
- Podiatrists in CDDFT use Systm 1 (S1) for GPs on S1 a task is sent to the GP for non S1 practices a standard letter is sent.
- Patients are informed & provided with an information leaflet, this is a leaflet that has been ratified by North East Diabetes Clinical Network so all podiatry departments are using the same leaflet.
- The template on (S1) is ticked, this is read coded to assist with data extraction.

# Podiatry Department Detection of an irregular pulse

Today during your diabetes foot check, we detected an irregular pulse in your foot. Please make an appointment with your GP, so the irregularity can be investigated further.

There are a lot of reasons why somebody could have an irregular pulse and it is important that it is investigated, because in some people this is due to an abnormal heart rhythm called atrial fibrillation (AF). Untreated AF can cause a stroke in some people but this can be reduced by correct treatment, usually with blood thinning agents.

It is recommended that the detection of an irregular pulse needs further testing. Your GP will be informed that we have detected an irregular pulse today.

This leaflet was produced by County Durham & Darlington NHS Foundation Trust based upon the work of the Northern Diabetes Footcare Network

Production date: November 2018

Review date: November 2021.

Responsibility for review: Louise Nelson

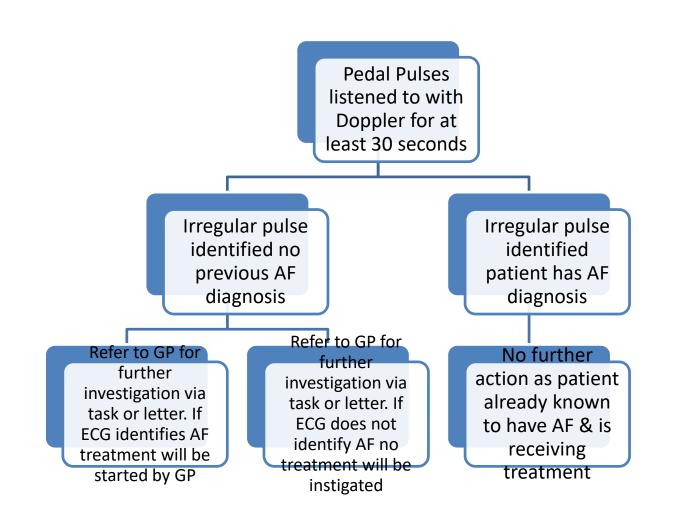
Leaflet reference PIL/CG/0615

Version 1.0

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**CDD Podiatry Mandatory Assessment** 

Patient			
Name: Mr Mickey Mouse-TestPatient "Mick"		NHS Number: Date of Birth: 01 Jan 1931	
Address: 1 Fern Court			
Bracken Hill Business Park			
Peterlee, SR8 2RR			
Telephone: 0191666666		Mobile Tel.: 07979555666	
Done By			
Name:		Date:	
Mandatory Vascular and Neurological Assessm	nent —		The state of the s
Palpation			Page 4 of 6
O/E - left dorsalis pedis normal		O/E - Right dorsalis pedis normal	
O/E - left dorsalis pedis abnormal		O/E - Right dorsalis pedis abnormal	
Left dorsalis pedis pulse absent		Right dorsalis pedis pulse absent	
O/E - Left posterior tibial pulse normal		O/E - Right posterior tibial pulse normal	
O/E - Left posterior tibial pulse abnormal		O/E - Right posterior tibial pulse abnormal	
Left posterior tibial pulse absent		Right posterior tibial pulse absent	
O/E - irregular pulse (new) Only tick if not previously diagnosed			
10g monofilament sensation left foot Tick one 10g monofilament sensation L foot normal monofilament sensation right foot 10g monofilament sensation R foot normal 10g monofilament sensation R foot abnormal 10g monofilament sensation R foot abnormal			







## County Durham and Darlington WHS

#### Results of the Pilot

- 5000 patients had their feet checked
- 10 patients with previously unknown AF were detected
- If all patients with diabetes in England had their pedal pulses checked as part of the annual review screening for an irregular pulses 6800 people could be detected with AF.
- If all these people were correctly anticoagulated, 340 AF-related strokes could be prevented as well as saving the NHS £7.9M



## Spreading the word

- Academic Science Network North East & Cumbria produced a leaflet Diabetes Podiatry & Atrial Fibrillation Save a Life, Stop a Stroke.
- College of podiatry have developed guidance, all podiatrists who are members have access to this.
- Podiatric detection of AF www.scpod.org







## Spreading the Word

- Via North East Diabetes Clinical Network which is attended by Podiatrists from all North East NHS Trusts.
- Some Podiatry Departments have limited access to Dopplers so were provided with AliveCor as there were a few false positives which were identified during manual palpation of pulses.





Podiatry &
Atrial Fibrillation
Save a life, stop a stroke

11<sup>th</sup> of September – 7pm





# Speakers





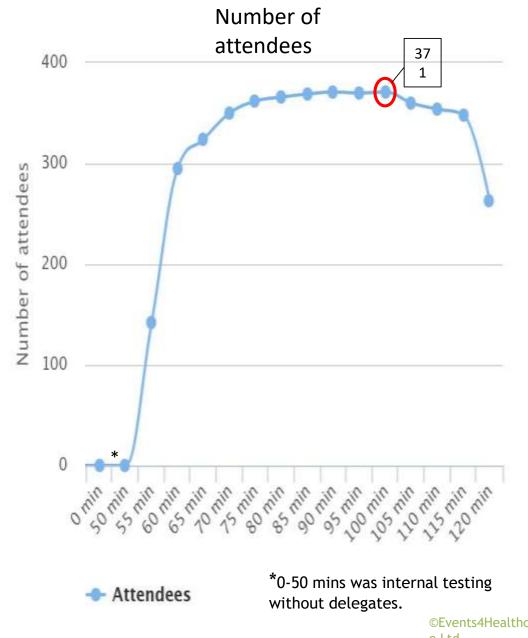




# **Attendance Metrics**

Total overall attendees: 407

Peak number of attendees at one point: 371

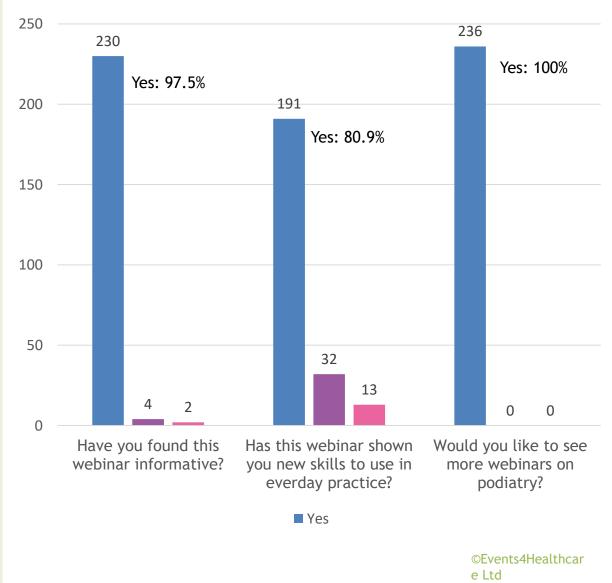


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# End of webinar survey

Number of surveys completed: 236
58% of attendees







## County Durham and Darlington NHS Foundation Trust

### Masterclass On The Foot in Diabetes Conference Harrogate November 2018







## County Durham and Darlington WHS

### **Poster Presentation**



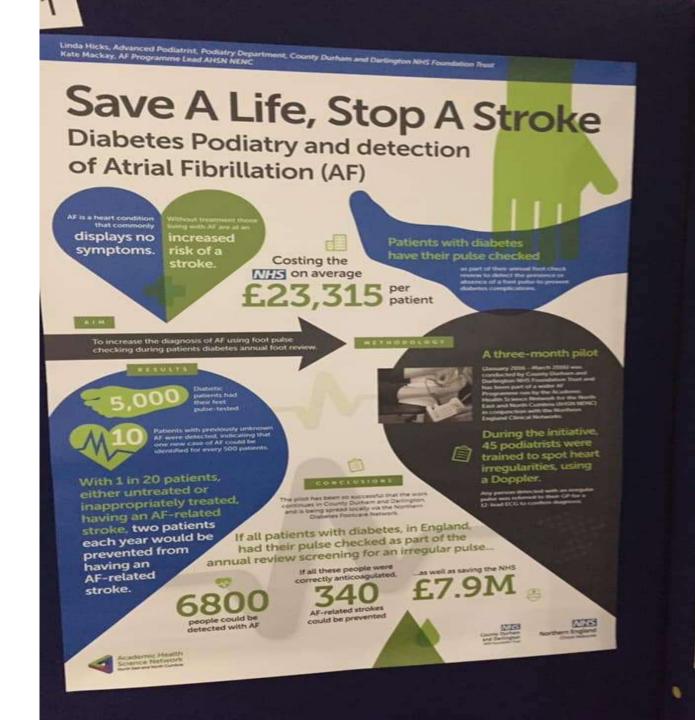
Cardiovascular Disease Prevention Conference 2019: Saving Hearts and Minds Together

Manchester 14 February 2019

nd Darlington **NHS** 

NHS Foundation Trust









## 10 year cardiovascular disease ambitions for England

#### Atrial fibrillation (AF) High blood pressure



85%

of the expected number of people with AF are detected by 2029

90%

of patients with AF who are already known to be at high risk of a stroke to be adequately anticoagulated by 2029

80%

of the expected number of people with high blood pressure are diagnosed by 2029

80%

of the total number of people already diagnosed with high blood pressure are treated to target as per NICE guidelines by 2029

#### High cholesterol



75%

of people aged 40 to 74 have received a formal validated CVD risk assessment and cholesterol reading recorded on a primary care data system in the last five years by 2029

45%

of people aged 40 to 74 Identified as having a 20% or greater 10-year risk of developing CVD in primary care are treated with statins by 2029

25%

of people with Familial Hypercholesterolaemia (FH) are diagnosed and treated optimally according to the NICE FH Guideline by 2024

The ambitions are underpinned by the need to do more to reduce health inequalities
Reduce the gap significantly in amenable CVD deaths between the most and least deprived areas by 2029