# Pre diabetes: The Identification and Management of Patients at risk of developing Type 2 Diabetes within Clusters

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The number of people in Wales with diabetes is increasing with an average rise of about 3% every year since 2010<sup>1</sup>. In Afan Cluster network of ABMU which has a registered practice population of 50,500 there is a high prevalence of diabetes with about 7.4% of their patients on their diabetes registers.

Concerned about the diabetes 'ticking time bomb' and relying on evidence that early identification and management of patients at risk of developing diabetes could help to reverse the growing trend, the Afan Cluster GP practices developed a project aimed at

- Identifying their pre- diabetic patients
- Providing the patients with an annual health check

#### Methods:

### **Step 1: Agree criteria What is pre diabetes?**

- Impaired fasting glycaemia (> 6 to < 7 mmol/l)</li>
- Impaired glucose tolerance read codes
- HBA1C > 41mmol < 48 mmol

### Who is at risk of pre diabetes?

- 45+
- Hypertensive
- Ever obese

### Step 2: Develop and run an audit to identify prediabetic patients

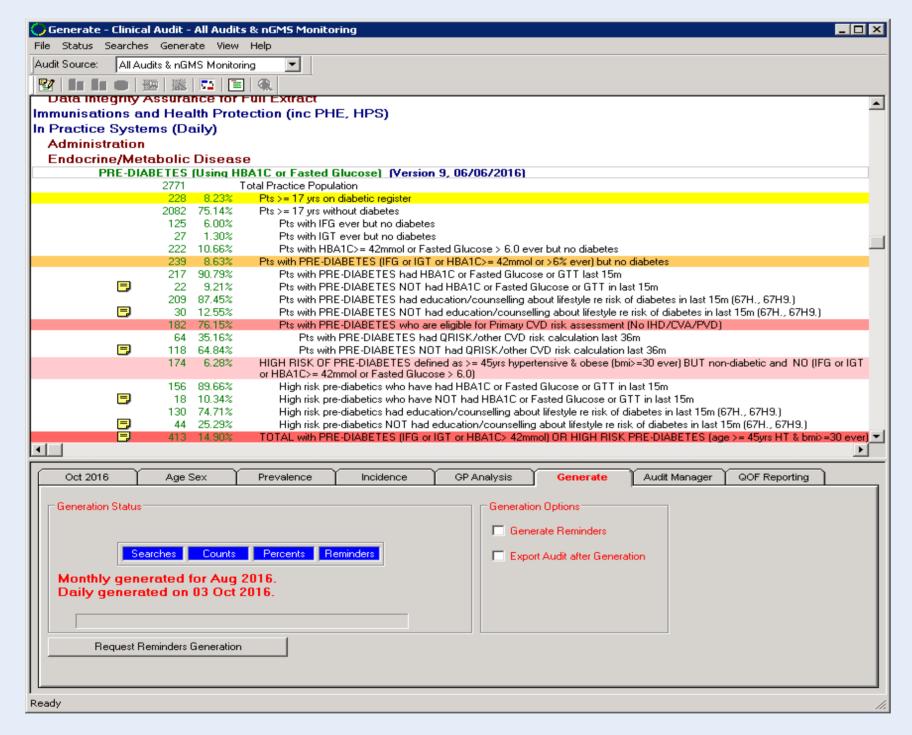


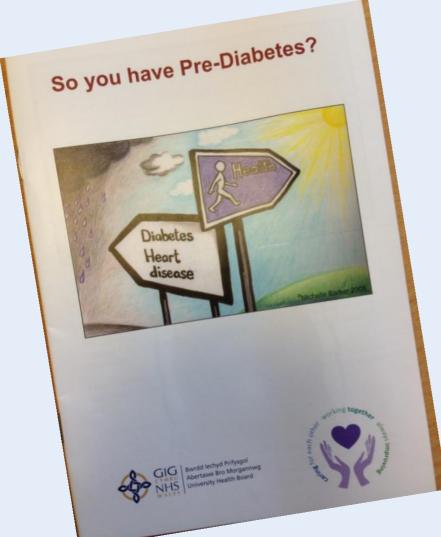
Figure 1. Pre diabetes audit template

# **Step 3: Provide accredited training to Health Care** support workers and other practice staff

3 day Level 2 Community Food and Nutrition Skills
Training attended by 15 staff members

Step 4: Develop appropriate lifestyle literature

Figure 2. Patient information booklet <sup>2</sup>



## Step 5: Invite identified pre-diabetic patients for their annual health checks

**Bwrdd lechyd Prifysgol** 

**University Health Board** 

Abertawe Bro Morgannwg

- A blood test (HbA1c)
- Lifestyle advice by an appropriately trained member of staff
- A lifestyle booklet
- Signposting to relevant services

### **Results:**

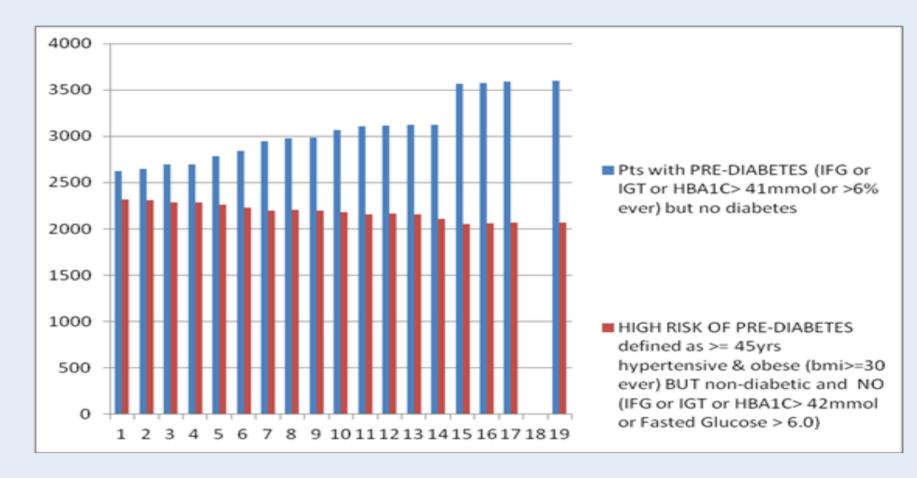


Figure 3. Months 1 - 19 rising numbers of pre diabetics discovered

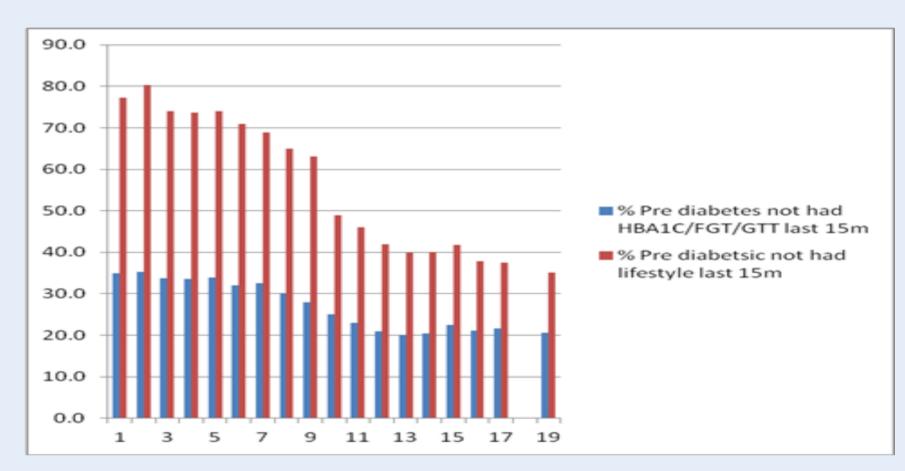


Figure 4. Progress: Months 1 - 19 (management of patients with pre diabetes)

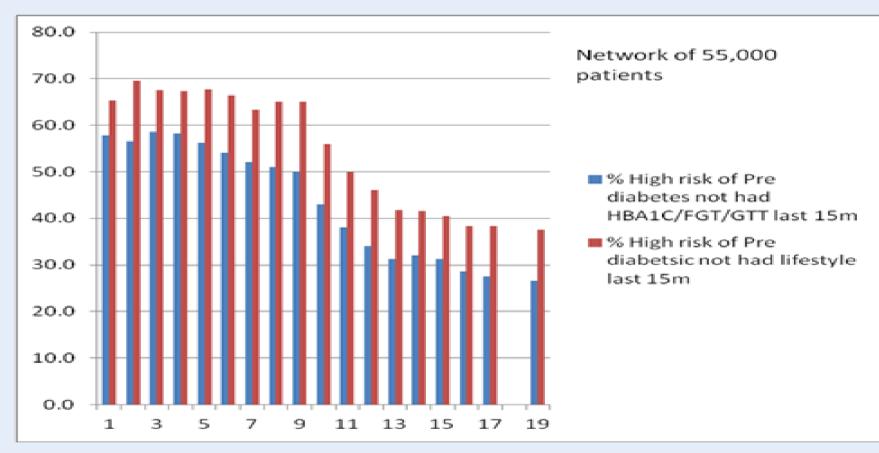


Figure 5. Progress: Months 1-19 (management of 'at risk of pre diabetes' patients)

### **Conclusion:**

Initials results from 1st 394 patients are encouraging:

•	Mean HBA1C 2015 pre intervention	41.7
•	Mean HBA1C 2016 post intervention	38.8
•	% group currently Pre diabetic 2015	57.1%
•	% group currently Pre diabetic 2016	25.1%
•	% Drop in Pre Diabetics 2016 v 2015	56.0%

The project has received interest and is being rolled out to 4 other clusters within ABMU Health Board covering a registered population of 175,000 patients. So far over 17,000 patients with pre diabetes or at risk of pre diabetes are now being screened.

### **Acknowledgements:**

- 1 Together for Health: Diabetes Annual report 2015, © Crown copyright 2016 WG28192 Digital ISBN 978 1 4734 6055 3
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