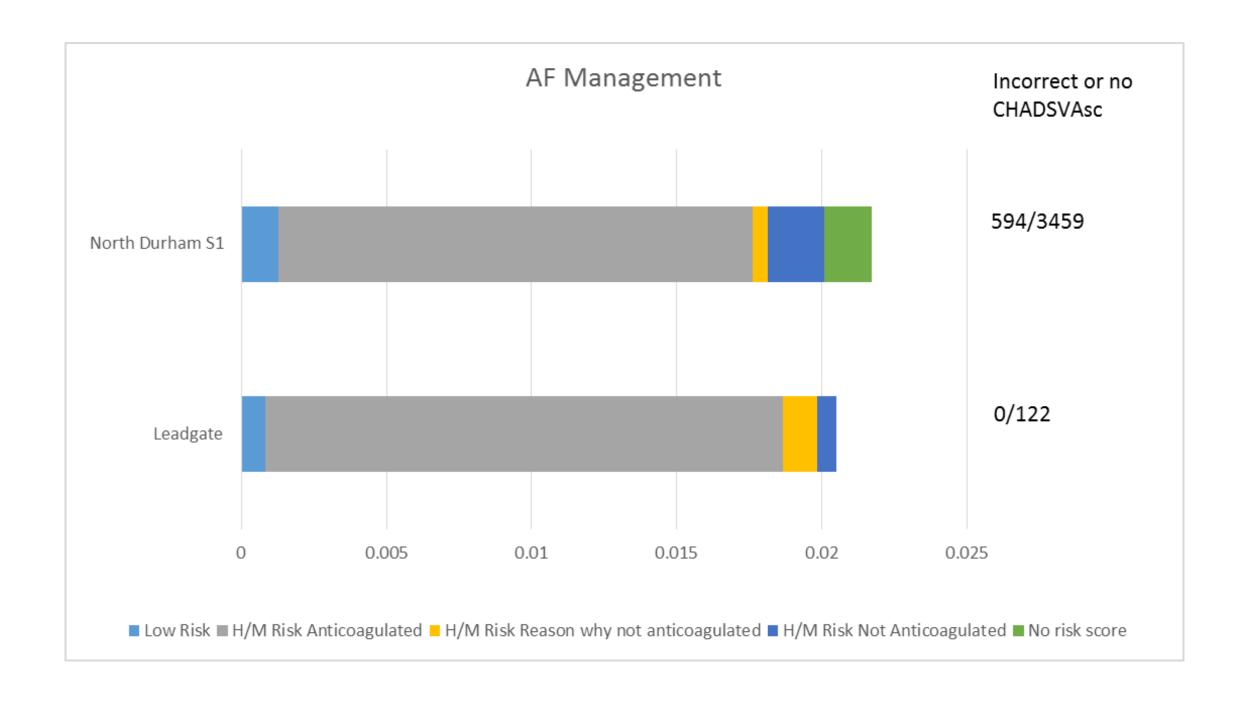
Atrial Fibrillation— in an overstretched primary care

Gareth Forbes - Derwentside Healthcare

Atrial Fibrillation

- •What?
- •Why?
- •How?



What?

- ?Preventing atrial fibrillation
- Detecting atrial fibrillation
- Offering anticoagulation to appropriate patients
- Anticoagulant safety

Why: Drivers and Motivation

- Altruism and enthusiasts
- Competition and reputation
- QoF
- CQC
- Fear of litigation
- Financial support

What We Don't Want

- Short term funding
- New software
- New logins/portals/toolkits
- An app!
- A new system that doesn't integrate with existing pathways
 - i.e. we don't want different systems for AF, hypertension, familial hypercholesterolaemia, COPD, dementia etc etc.

How?

- Three basic interventions
 - Screening
 - Case finding
 - Management
- Four potential routes to intervention
 - Systematic
 - Opportunistic
 - Part of routine review
 - Real-time triggers

How? – AF as an example

Screening

- DCC project (patient >75 who haven't had a pulse check in the last year)
- NHS Health checks Pulse every 5 years from 40
- Check pulse at all LTC reviews

Case-finding

- Drug to disease audits (also good for other diseases)
- 'Missed' diagnostic codes e.g. h/o AF
- 'Missed' diagnostic values e.g. CHADSVASc
- Flag all patients (not diagnosed with AF) whose last pulse was irregular but no subsequent ECG
- Target NHS Health Checks at those with high risk















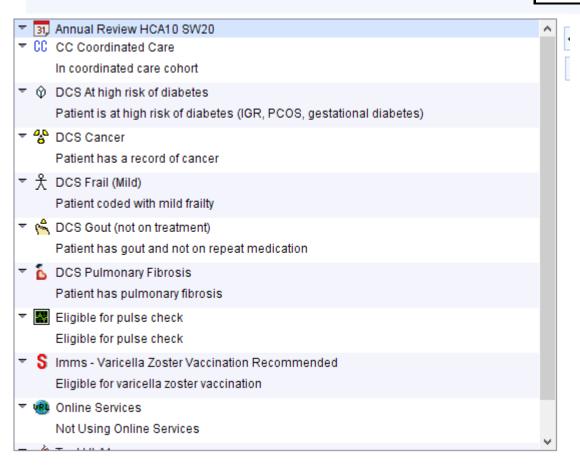






Eligible for pulse check

Eligible for pulse check



Page 1 Urinalysis			
BP	mmHg	▶ 📘 30 Apr 2018 O/E - Systolic E	3P reading (2469.)
Pulse rate	80 bpm	▶ 🧾 30 Apr 2018 O/E - Diastolic	BP reading (246A.)
Pulse Rhythm	V	DCS BP (latest with monitoring	g requirements view h
Weight	51 Kg	1234 Weight	51 Kg (8 st
Height	1.00	lg34 Height	1.68 m (5 '
neigni	1.68 m	1234 BMI	18.07 Kg/n
BMI		Waist circumference	100 cm (3

Name ▼	Count %
? AF101 Medication that might be for AF but no AF code	11 0.2 %
? AF102 AF potential indicator but no AF code	0 0.0 %
? AF103 - Irregular pulse but no subsequent ECG	3 0.1 %
? AF104 AF marked as resolved	9 0.2 %

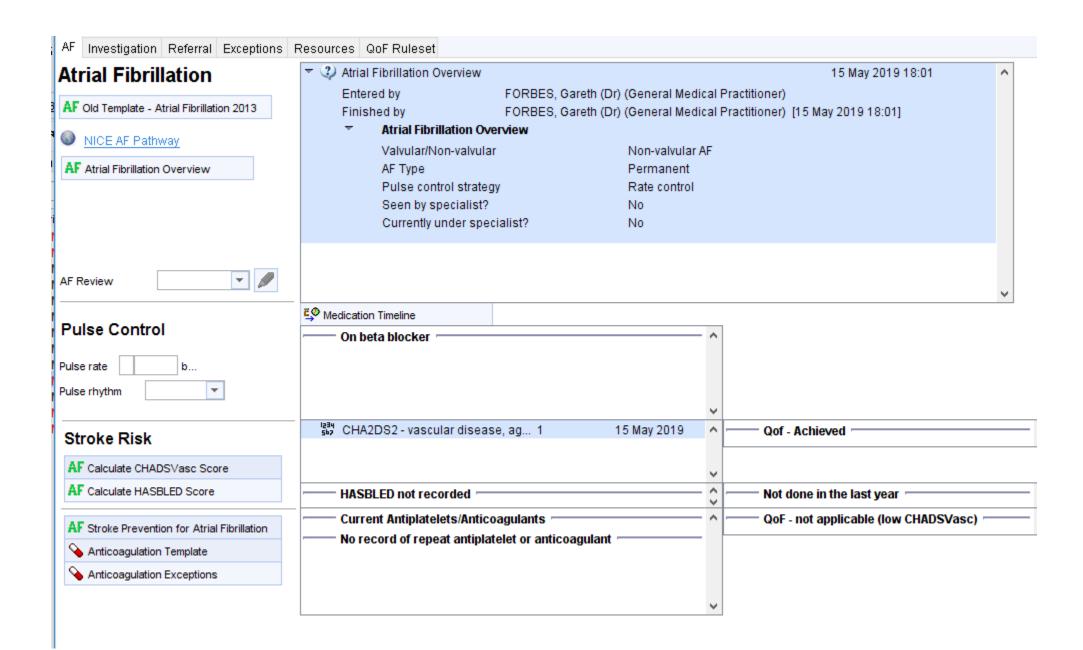
? AF101 Medication that might be for AF but no AF code	543 0.3 %
? AF102 AF potential indicator but no AF code	108 0.1 %
? AF103 - Irregular pulse but no subsequent ECG	291 0.2 %
? AF104 AF marked as resolved	246 0.1 %

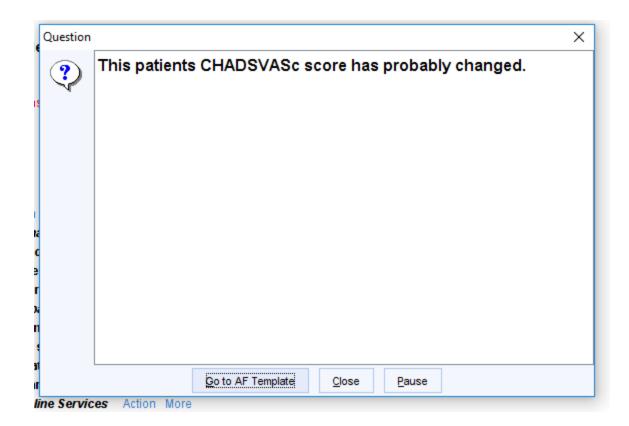
How? – AF as an example

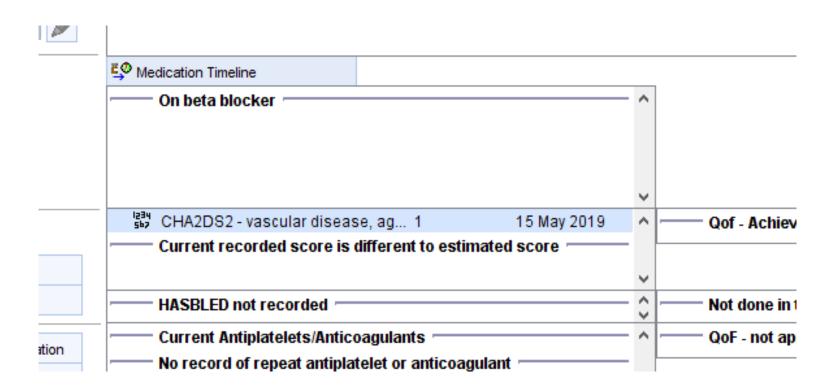
- Case Management AF
 - Interactive AF template
 - Identify those eligible for anticoagulation
 - Triggers when CHADSVASc changes or is incorrect
- Case Management Anticoagulation
 - Interactive anticoagulation template
 - Safety checking protocol
 - Safety searches

? AF201 AF without CHADSVASc or possibly incorrect score	1 0.8 %	16 May 2019 06:05 📵 🗸 🙏
? AF201 Consider Anticoagulation	4 0.1 %	16 May 2019 06:05 🛍 🗸

I : AL TURAL IIIAIKEU AS IESUIVEU	240	U. I 70
? AF201 AF without CHADSVASc or possibly incorrect score	599	17.1 %
? AF201 Consider Anticoagulation	331	0.2 %
2 ATHED 01.01 Modication that might be for athereseleracie but no code	2005	4 2 0/







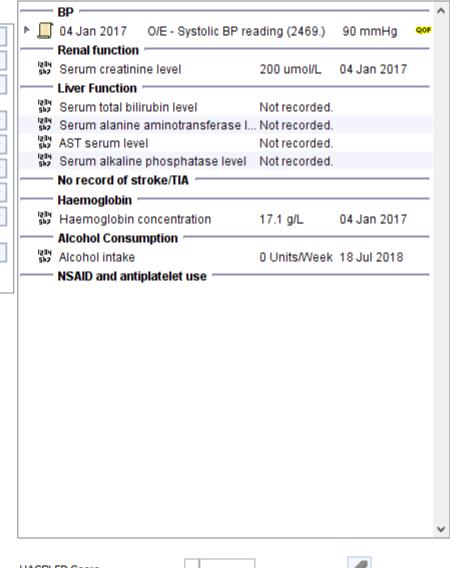
HASBLED Score

More info

Hypertension (uncontrolled, >160 systolic)	N/A	*
Renal Disease (Dialysis,transplant,Cr> >200)	N/A	*
Liver Disease (Cirrhosis, Bilirubin >2% Normal, AST/ALT/AlkP >3x normal)	N/A	*
Stroke History	N/A	¥
PHx Major bleeding/predisposition to bleeding	N/A	¥
Labile INR (unstable/high INRs), TTR<60%	N/A	¥
Elderly (age >65)	N/A	*
Medication predisposing to bleeding (Antiplatelet agent, NSAIDs)	N/A	*
Alcohol intake (>= 8 drinks/week)	N/A	*
Hyperten, abnorm renal/liver funct, stroke, BLED score	▼	

Annual risk of major haemorrhage when anticoagulated

Score	Risk
0	1.1%
1	1.0%
2	1.8%
3	3.7%
4	8.7%
5	12.5%
6	>10
7	>10
8	>10
9	>10



HASBLED Score



CHA2DS2-VASc

CHA2DS2 - vascular disease, a... 1

15 May 2019

 \wedge

Current recorded score is different to estimated score

HASBLED

HASBLED not recorded

Annual stroke risk

Score	Risk	Risk after	NNT	
		Rx with		
		OAC		
0	0.84%	0.27%	175	
1	1.75%	0.5%	87	
2	2.69%	1.0%	56	
3	3.2%	1.4%	47	
4	4.0%	2.1%	38	
5	6.7%	3.3%	23	
2 3 4 5 6 7	9.8%	4.1%	15	
	9.6%	4.6%	16	
8 9	6.7%	4.7%		
9	15.2%	5.25	10	

Annual risk of major haemorrhage when anticoagulated

Score	Risk
0	1.1%
1	1.0%
2	1.8%
3	3.7%
4	8.7%
5	12.5%
6	>10
7	>10
8	>10
9	>10

NICE recommends considering anticoagulation in patients with non-valvular AF if:

CHA2DS2Vasc >= 1 for men

CHA2DS2Vasc >= 2 for women

NICE AF Pathway

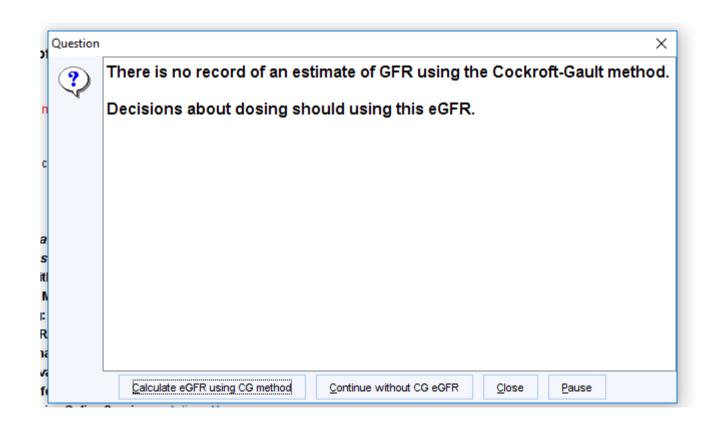
NICE AF Guideline 2014

Online CHADSVASC/HASBLED tool.

ODD AF Guideline

NICE Patient Decision Aid

Anticoagulation Safety - ?Poor Concordance # 09 0.1 % Anticoagulation Safety - Apixaban - consider reduced dose # 15 0 0.0 % Anticoagulation Safety - Apixaban - Contraindicated/not recommended drugs # 0 00% 15 Anticoagulation Safety - Apixaban - High GI Bleed Risk# 16 03% 15 Anticoagulation Safety - Apixaban - High GI Bleed Risk - not on gastroprotectio... 8 0 1 % 15 Anticoagulation Safety - Apixaban - No apparent licensed indication # 15 0 00% Anticoagulation Safety - Apixaban - Severe renal impairment - consider stoppi... 15 0 00% Anticoagulation Safety - Dabigatran - Consider reduced dose age/Cr/verapam... 0 00% 15 Anticoagulation Safety - Dabigatran - Contraindicated/not recommended drug... 0 0 0 96 Anticoagulation Safety - Dabigatran - High Gl Bleed Risk# 0 00% 15 Anticoagulation Safety - Dabigatran - High Gl Bleed Risk - not on gastroprotec... 0 0 0 96 15 Anticoagulation Safety - Dabigatran - No apparent licensed indication # 0 0 0 % 15 Anticoagulation Safety - Dabigatran - Severe renal impairment - consider stop... 0 0 0 % 15 Anticoagulation Safety - DOAC - Consider Reduced Dose # 0 0 0 % 15 Anticoagulation Safety - DOAC - Contraindicated/not recommended drugs # 0 0 0 % 15 Anticoagulation Safety - DOAC - High GI Bleed Risk# 29 0 5 % Anticoagulation Safety - DOAC - High GI Bleed Risk - no gastroprotection # 14 0 2 % 15 Anticoagulation Safety - DOAC - No apparent licensed indication # 15 1 00% Anticoagulation Safety - DOAC - Severe renal impairment - consider stopping # 15

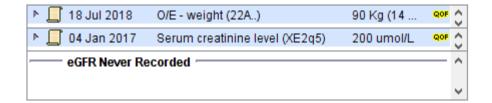




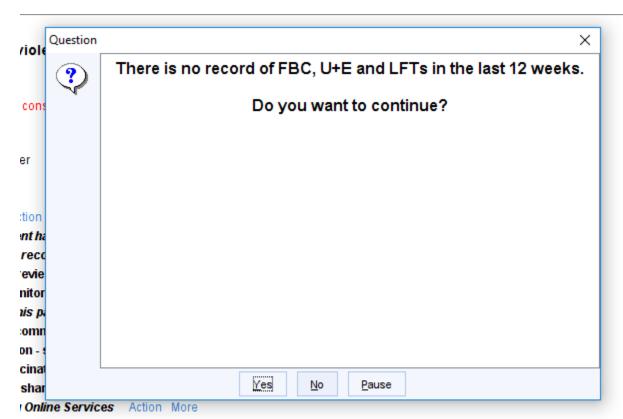
- 1. Check weight recorded around last creatinine
- 2. Record Cockroft-Gault eGFR using same date as the most recent creatinine.



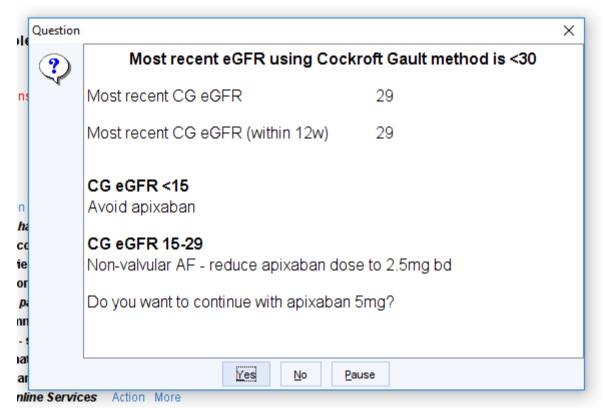




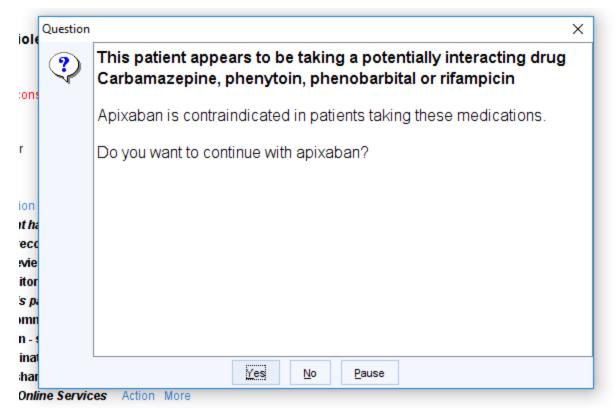
Cockcroft-Gault eGFR Not Recorded



s without Total white blood count test in last 12 weeks: Patient requires Total white blood count test Action More



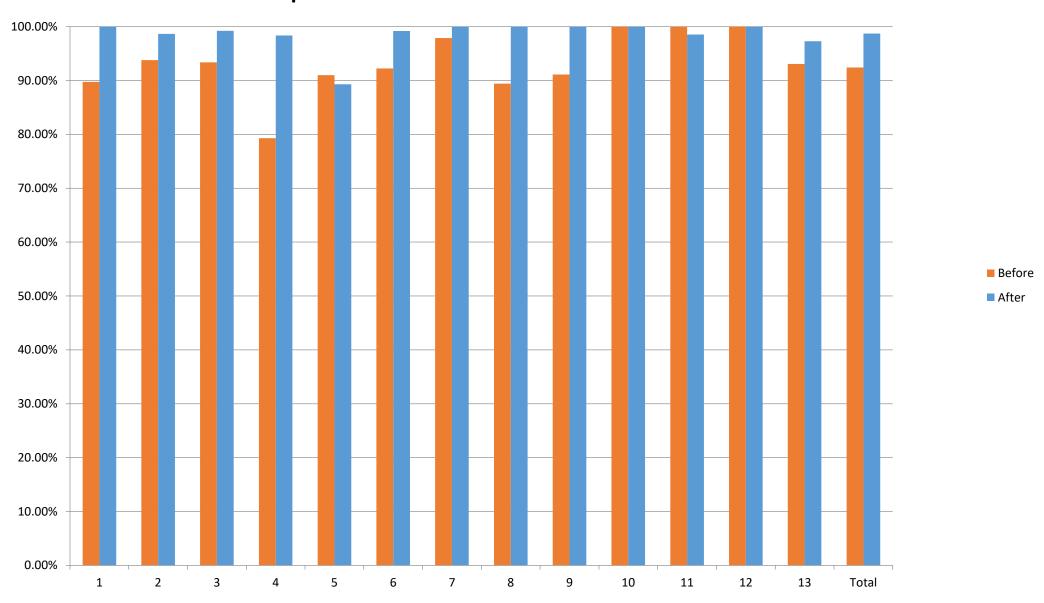
vithout Total white blood count test in last 12 weeks: Patient requires Total white blood count test Acti

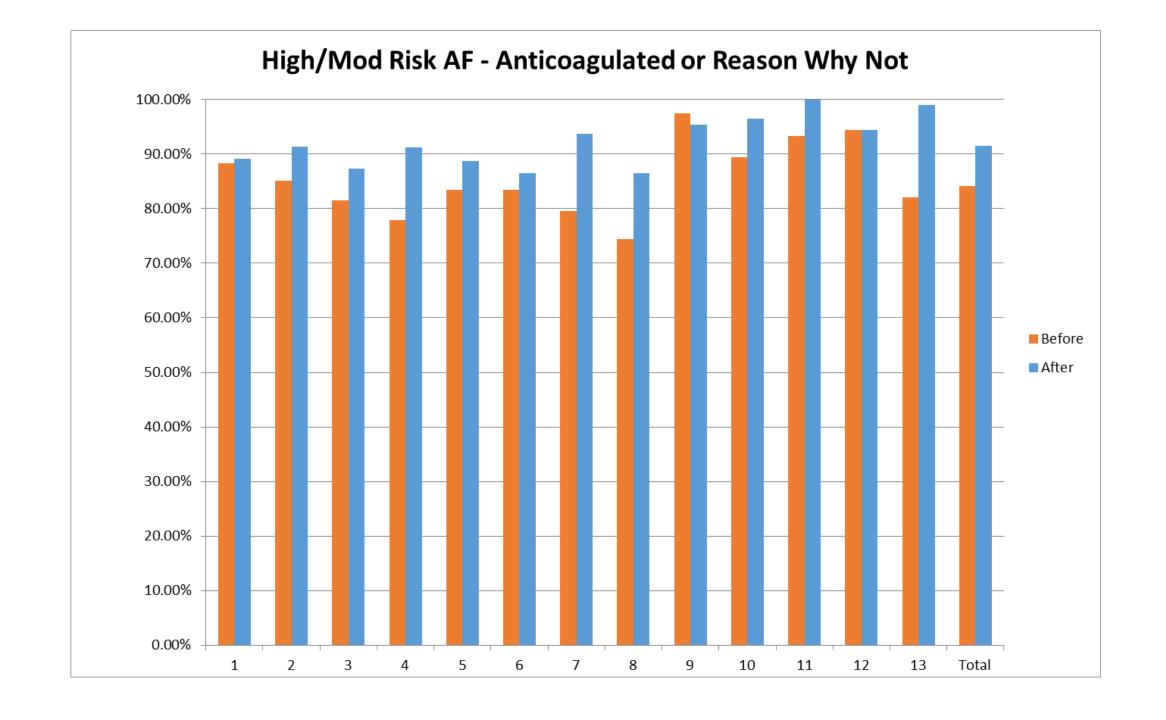


without Total white blood count test in last 12 weeks: Patient requires Total white blood count test Action More

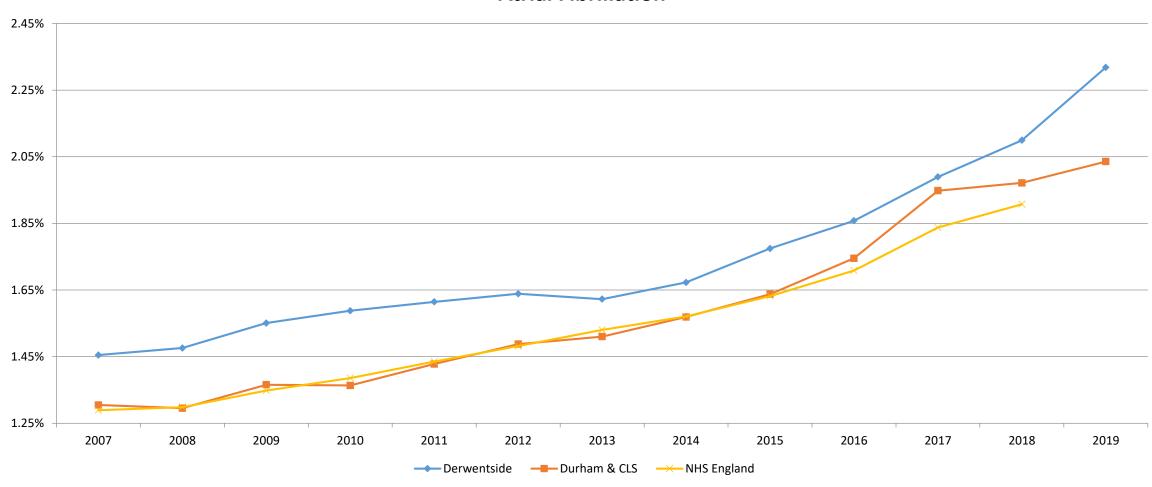
999 009 767 Read Code Apixaban Safety Code Des Anticoagulation is usually contraindicated if there has been recent eye, spine or brain surgery 1 Risk of bleeding discussed Yes **⊘**∓ \bigcirc No \mathcal{G} Not known 2 Need to monitor kidney Fx discussed Yes **∮** \bigcirc No \mathcal{B} Not known 3 Antacids to be taken at different time - discussed Yes **⊘**∓ \bigcirc No \mathcal{B} Not known 4 St John's Wort interaction discussed Yes **∮** \bigcirc No \mathcal{G} Not known 5 Anticoagulation card issued Yes **∮**≯ \bigcirc No Not known

Proportion of Patients with AF with CHADSVASc





Atrial Fibrillation



Anticoagulant Safety

	Before	After
VKA – no INR within 12 weeks	297	96
VKA – no TTR within 1 year	950	95
DOAC – no indication	189	126
DOAC – severe renal impairment	3	4
DOAC – consider dose reduction	148	107
DOAC – Interacting drugs	11	12