Setting up an Amiodarone pathway in Eastbourne District General Hospital

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Background

Amiodarone is an important medication used by cardiologists for severe cardiac rhythm abnormalities. However, it is well recognised that Amiodarone has potential serious side-effects and therefore requires regular monitoring. Amiodarone has previously been initiated in primary care under specialist advice, and Sussex has some of the highest use of amiodarone in the UK.

Given the safety concerns, NHS England and NHS Clinical Commissioners' advise that amiodarone should be initiated by a specialist, and not in primary care. It should then be continued under a shared care arrangement in line with NICE guidance as part of the new National Shared Care protocol. Implementing this new guidance will invariably lead to an increased workload for our staff

OBJECTIVE

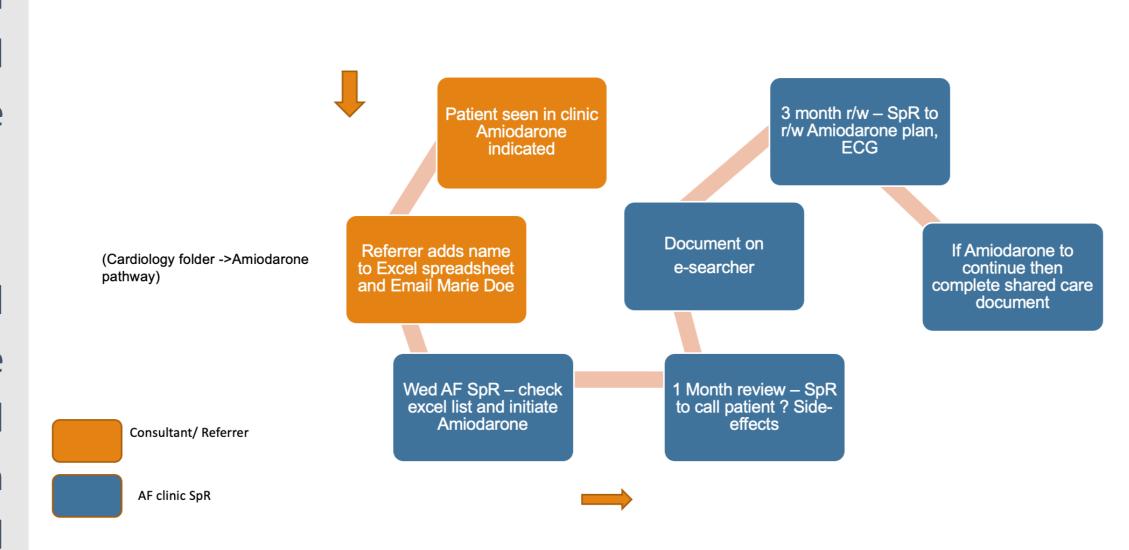
To implement an amiodarone pathway at Eastbourne District General Hospital, incorporating the new shared care protocol for best service provision to our patients and support GP colleagues in community.



METHOD

An amiodarone pathway algorithm was designed highlighting key clinical information and steps involved in the pathway.

Amiodarone treatment Pathway and Shared care protocol Sussex Health & Care Partnership Area Prescribing Committee



An amiodarone pathway folder on the Shared Cardiology Drive was created with the following:

- Excel spreadsheet to record new patients to be started on amiodarone
- Amiodarone pathway algorithm
- Patient leaflet on amiodarone
- Shared Care letter to GP

This information was circulated to staff within the department and a questionnaire was used to assess their knowledge of amiodarone and the new Shared Care guidance.

A designated Cardiology Registrar (SpR who covers Atrial Fibrillation clinic on Wednesdays) was assigned the task of contacting new patients to be initiated on amiodarone. Tasks below:

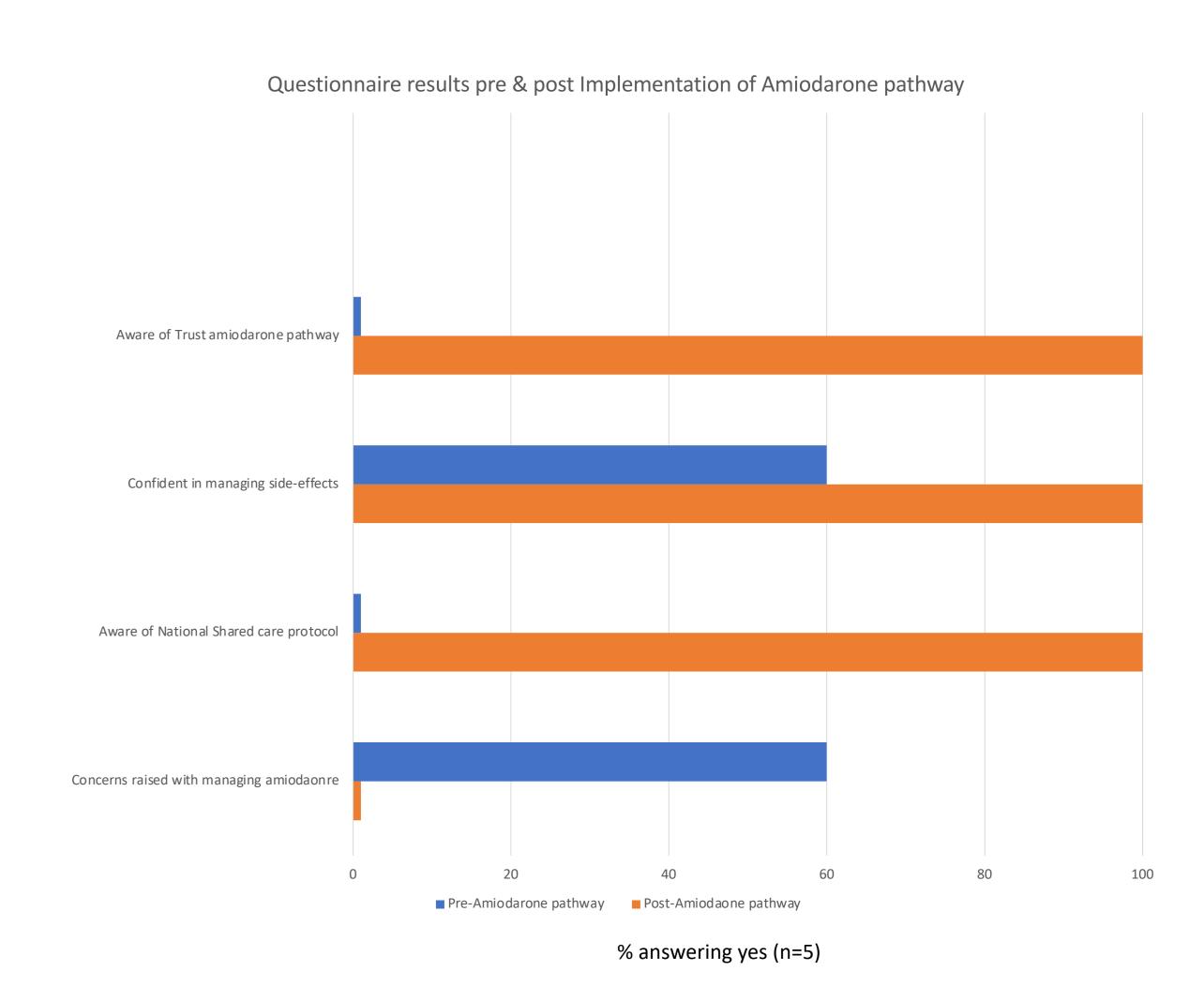
Check excel spreadsheet, counsel patient, provide leaflet, baseline investigations, and provide initial prescription and log date for follow-up.

Patient pathway: Amiodarone **Clinical Indication Contraindications** Bradycardia Significant conduction disease Thyroid disease (relative) Amiodarone-guided DCCV, bridge Allergy to iodine Prolonged QT interval Long term strategy (if alternative Pregnancy/ breastfeeding (relative) **Counselling Patient on Side Effects*** Thyroid- hyper or hypothyroidism **Hepatotoxicity** (abnormal LFTs +/- hepatic injury) Lung – pneumonitis, pulmonary fibrosis Skin- rash, photosensitivity (sun block etc), skin discoloration Eve – corneal deposits, optic neuritis Nerve damage- tremor, ataxia, peripheral neuropathy *Refer to Marie Doe for counselling/initiation if for DCCV for AF **Initiation by Cardiologist*** Follow-up Prescribe first 3 months: 12 weeks after initiation 1st week 200mg TDS · ECG, Assess improvement, side-2nd week 200mg BD 3rd week onwards 200mg OD Plan to stop/continue Shared care letter to GP Baseline Ixs- TFTs, U&Es, LFTs, - 6 monthly - TFTs, LFTs, U&Es CXR, ECG - 12 monthly – ECG (rhythm, **Drug Interactions** (Half life approx. 50 days (20-100 days) Stop drug. Endocrine review Continue drug. Consider levothyroxine If >3x ULN and no Sx/injury, continue. Repeat 2 wks QT prolonging medications Stop drug. Urgent Cardio/resp review Rate limiting medications creased levels of amiodarone Some antivirals, grapefruit juice Stop drug. Urgent derm review Photosensitivity Continue, self care advice

RESULTS

Following implementation of the pathway, the following benefits were noted:

- Excel spreadsheet regularly being used and we now have a database of new patients started on amiodarone
- Cardiologists are now aware of Amiodarone pathway and new Shared care guidance, which was previously not the case
- Some Cardiologists felt more confident in managing side-effects of amiodarone
- Concerns relating to time to initiate in clinic and monitoring of patients on amiodarone longer term have been addressed



CONCLUSION

- The introduction of New National Shared Care guidance for Amiodarone use led to the development of an amiodarone pathway
- This addressed concerns regarding an increase in workload for clinicians and also allowed for patients to be appropriately monitored and for the new guidance to be implemented in an efficient manner.
- Clinicians also felt more confident in managing side effects related to amiodarone and became aware of the National Shared Care protocol for Amiodarone as a result of this project.

REFERENCES

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