

# **ADAS- Anticoagulant Dosing and Advisory Service**

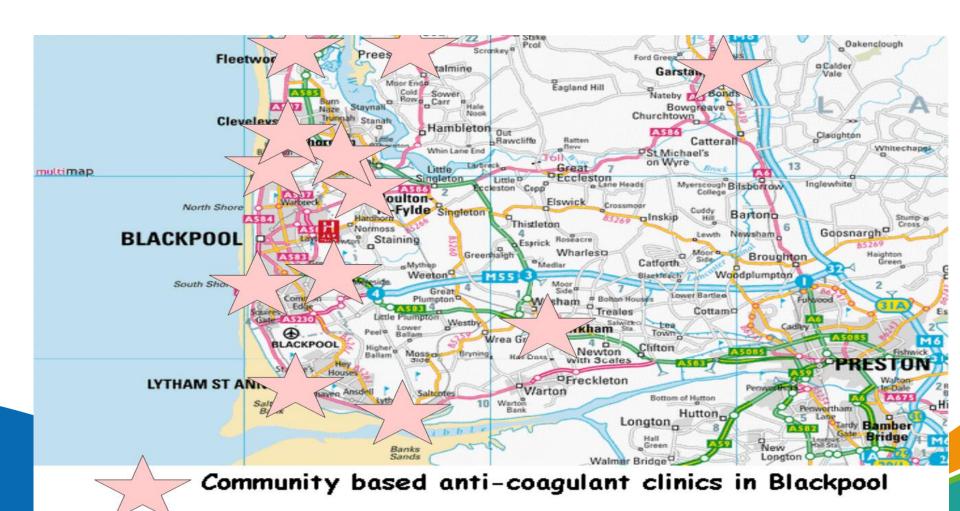
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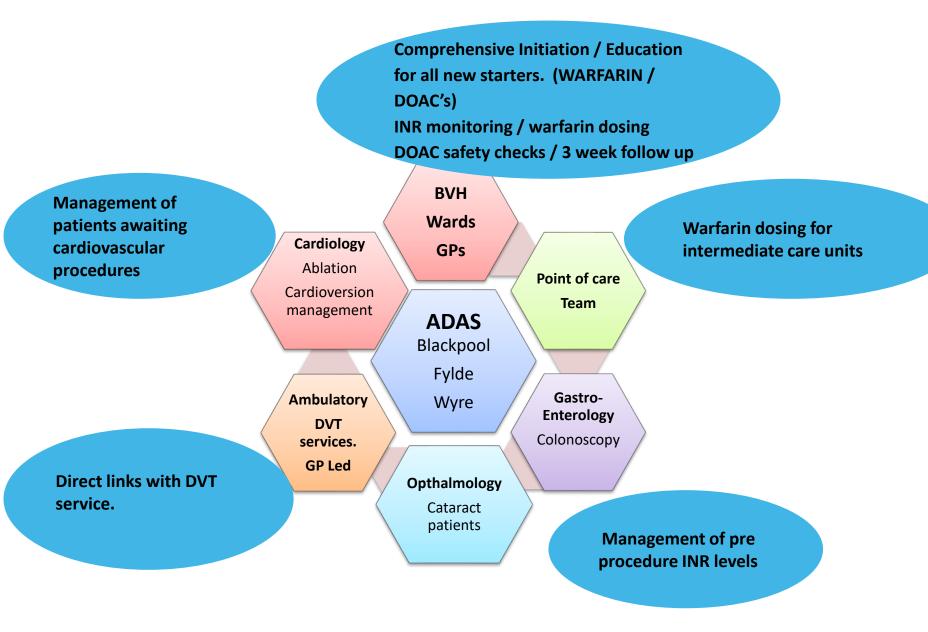


### **Service Provision**

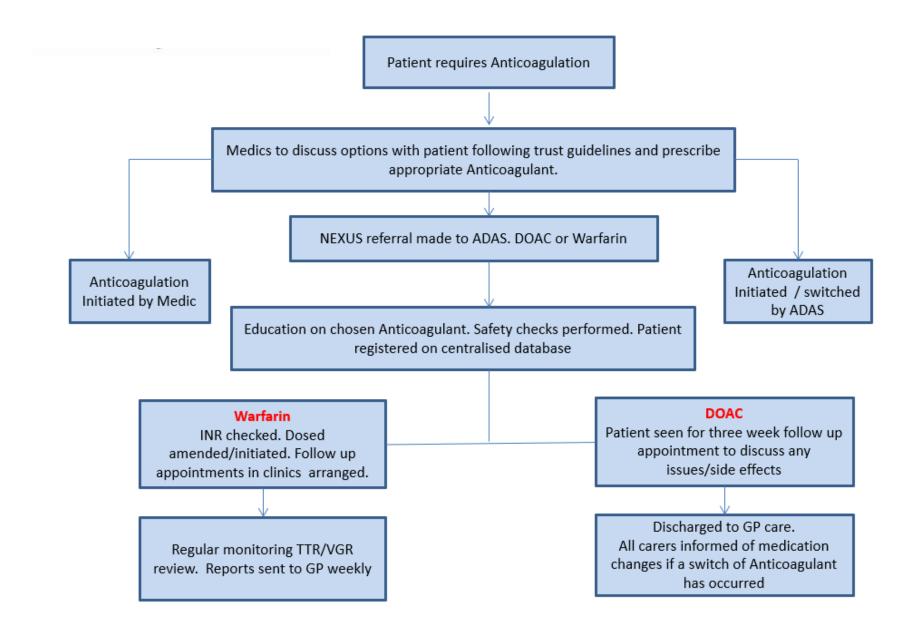
- ADAS is a Consultant led service managed by the Pathology Directorate.
- Provides POCT and computer assisted dosing advice to approx. 4000 registered patients on oral anticoagulant therapy (warfarin).
- Education and counselling service for DOAC initiations.
- The service is delivered by Biomedical Scientists and Medical Laboratory Assistants.
- All clinics are community based (6 days per week) with a daily domiciliary service.

# **Community Clinic Sites**





#### **Secondary Care Pathway for all Anticoagulants**



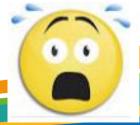
# **Anticoagulant Service DOAC Concerns**

- Variation in initiation in both primary and secondary care.
- Inconsistent education for patients.
- Patients presenting to ADAS clinics for advice and confused.
- Patients prescribed a DOAC with contraindications.
- Patients on BOTH warfarin and a DOAC!
- Patient NOT on either anticoagulant!
- Switches done without renal bloods or INR checks. NICE guidance not followed.
- Switches done when INR is above recommended level (bleeding risks).
- Patients on the wrong doses of DOACs / no follow up checks.
- Phone calls to ADAS for DOAC advice and switch assistance.



# **Worrying Scenarios**

- Patient admitted to CAT unit at BVH as her INR was >10.
- Discharged a day later with an INR of 7.3 following vitamin K
- ADAS had no update referral / no follow up check / no E discharge letter to GP
- ADAS performed a home visit 3 days later INR still >3
- Patient had been sent home and started on Apixaban on discharge with an INR of 7.3!!
- No follow up in place, no education for patient / carers.



# **Worrying Scenarios**



**NHS Foundation Trust** 

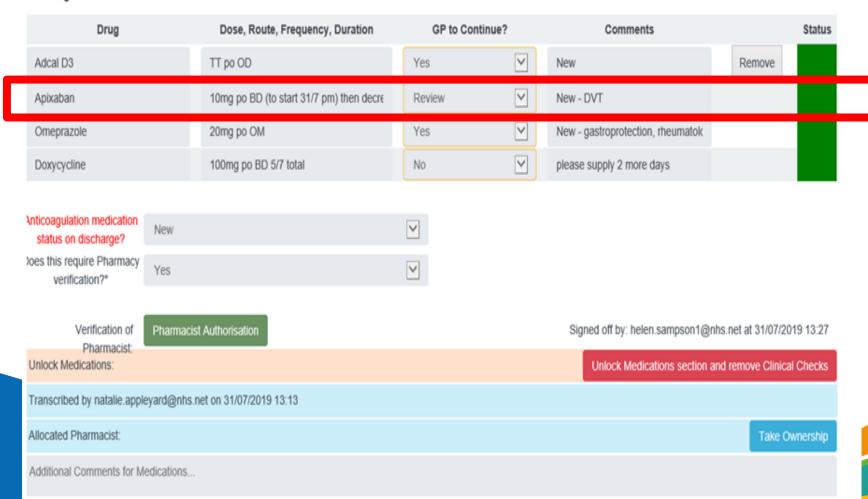
- Clinic patient attended confused about her anticoagulation.
- Started on rivaroxaban 3 days previously.
- INR performed just for safety and a closing INR for records
- INR was >8
- Patient previously on 3mg warfarin daily and had been Rx'd 15mg rivaroxaban.
- She had taken 15mg of Warfarin and 15 mg Rivaroxaban
- Oral Vit K administered
- Consulted with GP re stopping and restarting Riva when INR<2</li>
- She and her carer had not received any information the drug switch or counselling on DOAC





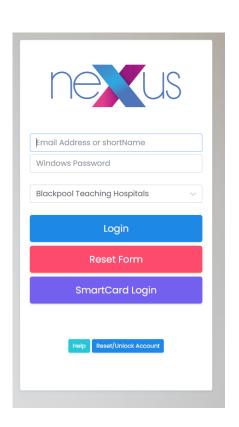
### **E- Discharge Flag**

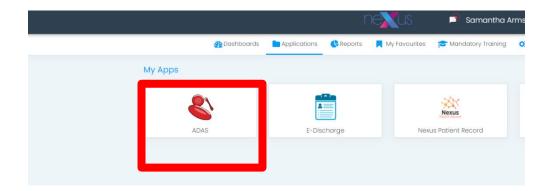
#### Discharge Medications:





# **ADAS NEXUS Referral App**





### **Common DOAC Referral Issues**



- No clotting screen (INR/ PTT)/ renal, liver (creatinine, LFTs U/E) bloods at initiation
- No weight on referral/inaccurate weight on referral
- Patient weight < 40kg no data on efficacy</li>
- Patient weight >120 Kg Rivaroxaban or Apixaban only
- Renal function not appropriate for DOAC use <15 ml/min</li>
   Apix / Riva / Edox and <30ml/min Dabigatran</li>
- E- GFR being used instead of CockCroft- Gault assessment for dosage, using actual body weight
- Patients switched who are higher range 3-4 warfarin APA /
   Clot whilst on warfarin / mechanical valve

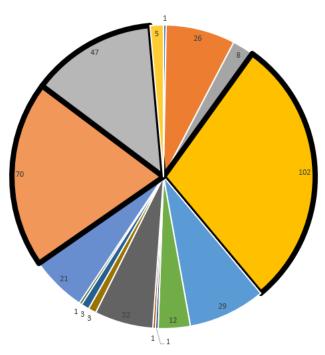
### **Common Warfarin Referral Issues**



- No referral sent or no update referral sent/ no follow up appointment (reportable as clinical incidents)
- Insufficient dose history/information
- Inappropriate/ incorrect detailed indication/ range/ duration
- Being discharged with insufficient LMWH
- No instructions on referral with regards to LMWH stopping
- Inappropriate dosing- Trust Warfarin Guide CORP/ GUID/ 147 DVT and AF Protocols

# Reported ADAS Errors 2022-2023





- Error in entering patient details / episode on Dawn
- Problem with patient switch to DOAC e.g. innapropriate INR level, on 2 anticoags etc Dosing Errors/Mistakes eg inappropriate,wrong label,not following protocol
- ②Patient discharged with no follow up appointment
- @Patient not discharged with anticoagulant pack/ warfarin /or dose advice
- ®Referral incomplete (i.e. no dosage, INR results, signature for GP referrals)
- · Wrong dose written in patients book when dosed over phone

- NHS Barcode mis-scan
- Patient not given warfarin
- 回Patient discharged on inappropriate dose
- Referral with incorrect range, diagnosis, duration, stop date

- Details Manually entered incorrectly on Coaguchek
- Failure in testing procedure eg Identification of patient, visit report form issues
- Other
- ②Patient lost in system , found through suspended list
- Referral not sent

### Benefits of the pathway



- Centralisation of all anticoagulant patients (universal anticoagulant database).
- Auditable, consistent, comprehensive education for all patients/carers.
- Less Medic time/confusion on who is educating patients.
- Safe anticoagulation switches. DOAC-DOAC and Warfarin-DOAC etc
- Secondary safety check to ensure:
  - -no contraindications (drugs or conditions)
  - -bloodwork complete and results appropriate
  - -correct dosage
  - -appropriate treatment duration
- 3- week DOAC review including repeat bloods
- Compliance for NRLS (NPSA) / NICE recommendations.

# **ADAS Contacts**

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Sharepoint Site – Anticoagulation in Divisions and Departments Trust Homepage

