

### How a Busy Anticoagulant Service Monitors the NPSA Safety Indicators

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### The Royal Berkshire Hospital

- Large DGH located in the town of Reading
- Serves >500,000 patients
- Large Geographical catchment area
- >1000 Beds
- >4,000 staff
- Annual budget of £228 million
- Douglas Bader, legs amputated 1931
- Kate Middleton, born 1992

**DAWN AC # 7.6** 



### **RBH Anticoagulant Service**

Workload	Staffing
5250 patients	2 Nurse (Band 6 & Band 7)
93,000 INRs Sept'10 to Sept'11	1 Admin (Band 4)
Postal Results Service but urgent dose changes are telephoned on the day	1 BMS (Band 7/6) 1/2 MLA
Automation 3 x Sysmex CS	Total 4 ½ FTE Every Day



### NPSA Patient Safety Alert 18



- issued 28<sup>th</sup> March 2007
- "Anticoagulants are one of the classes of medicines most frequently identified as causing preventable harm and admission to hospital"
- "Actions that can make anticoagulant therapy safer"

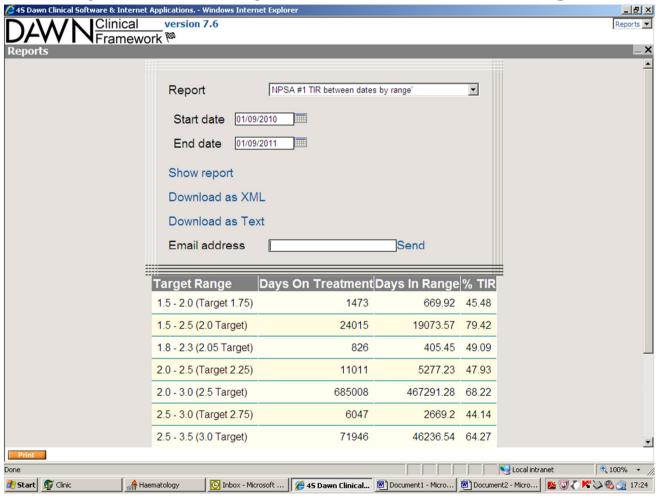


#### **Action Points**

- Ensure all staff caring for patients on anticoagulants have the necessary work competences.
- Written procedures and clinical protocols.
- All patients to receive verbal and non verbal information.
- Promote safe practice with prescribers.
- Promote safe practice when co-prescribing interacting medicines.
- Dental guidelines.
- Promote written practices for social care settings.
- Undertake Audit using the NPSA safety indicators

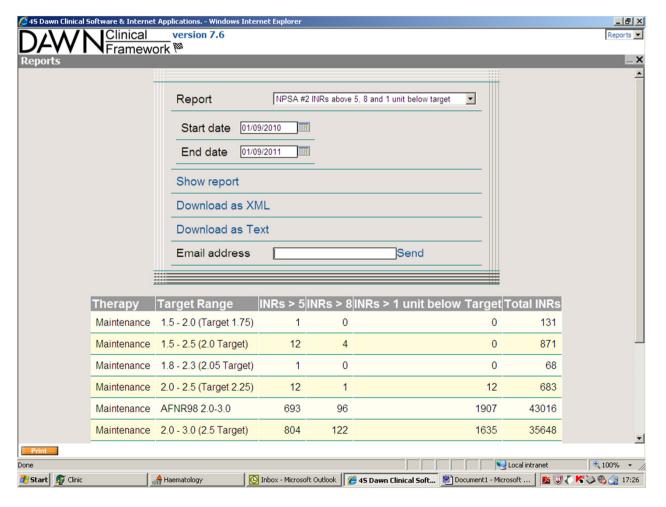


### Safety indicators for Patients on OAT "Proportion of patient time in range"



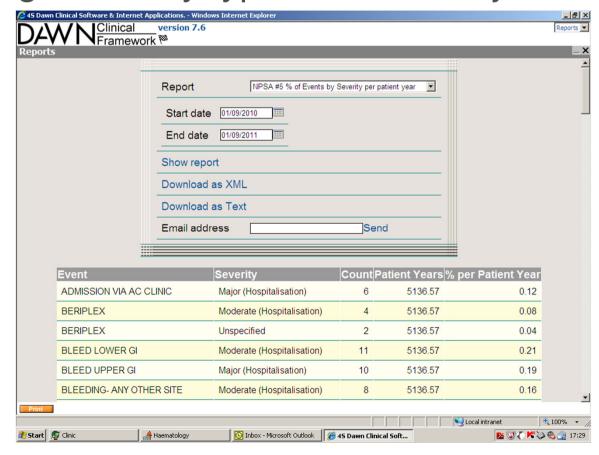


# Safety indicators for Patients on OAT % INRs >5, >8 and <1.0 unit below the target





Safety indicators for Patients on OAT Percentage of patients suffering adverse outcomes, categorised my type, such as major bleed

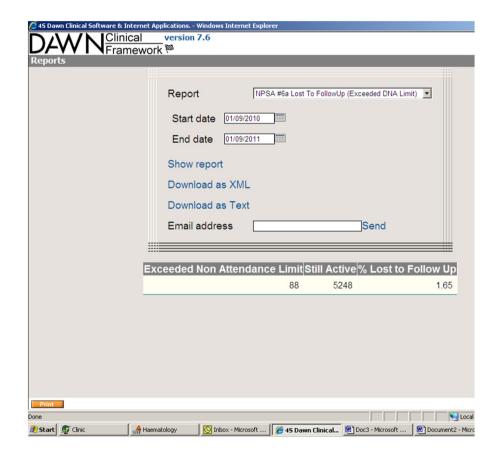




Event	Severity	Count	Patient Years	% per Patient Year
				0.21
				0.26
Patient				0.62
Count of INR's x	Avg Int	erval	/ 365	1.34
				2.11
				1.29
				0.48
TIA	Moderate	27	1942	1.39
CVA	Moderate	18	1942	0.93
BRUISING (> 10cm diameter)	Minor	56	1942	2.88
HAEMATURIA	Minor	43	1942	2.21
	Minor	74	1942	3.81



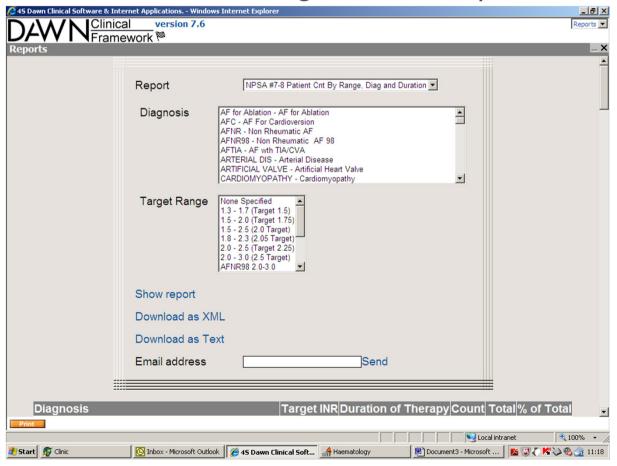
### Safety indicators for Patients on OAT Percentage of Patients lost to follow up



Report	NPSA	#6b Lost To FollowU	p (No Next Test)	•
,				
Show repor	t			
Download a	s XML			
Download a	s Text			
Email addre	ess		Send	
	16	5251		0.3
	10	5251		0.3
-				

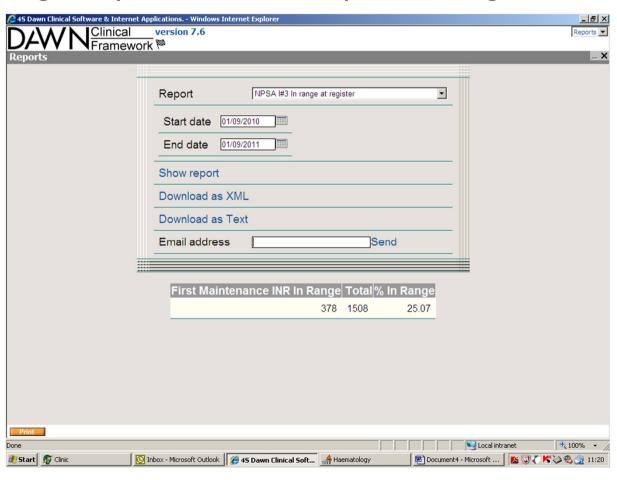


Safety indicators for Patients on OAT
Percentage of Patients with unknown/inappropriate Target
INR, unknown diagnosis or stop date





### Safety indicators for Patients on OAT Percentage of patients in therapeutic range at discharge



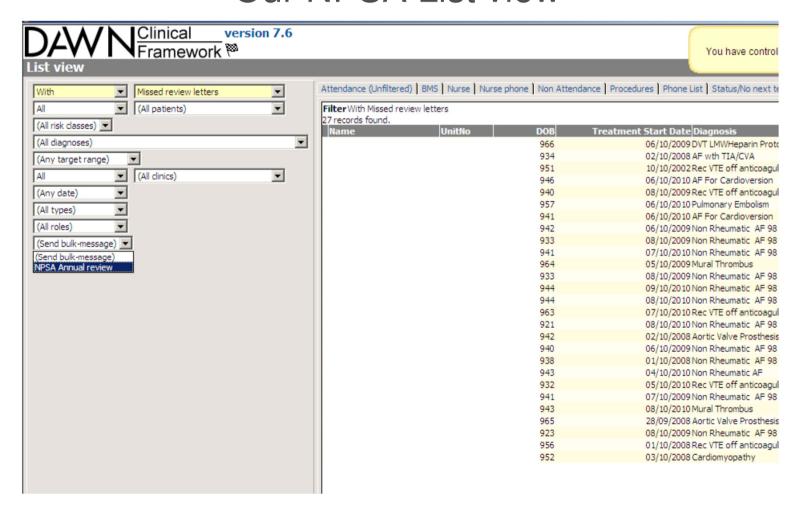


### How do we "Promote safe practice with prescribers"

- Every INR dosage event is uploaded to GP web links with next test date
- DNA process automated such that GP is coped in at 3<sup>rd</sup> DNA and advised to stop prescribing
- DAWN AC compiles a list view that pulls up by anticoagulant start date annually. Bulk letter printed in blocks of GP (approx 300 per month)
   ? emailing

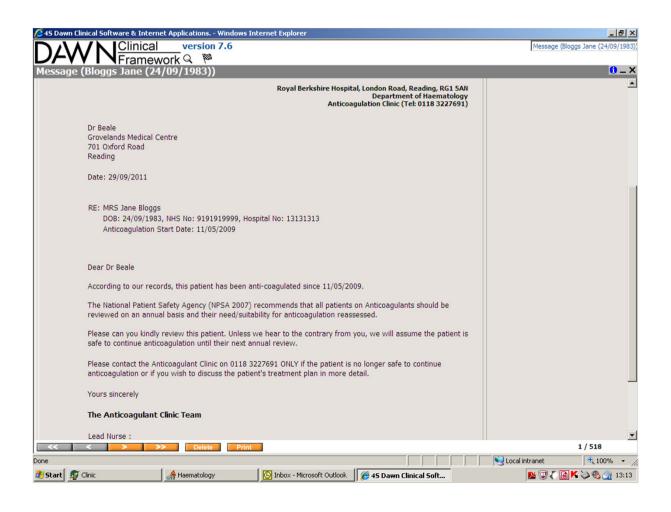


#### "Our NPSA List view"





#### "Our NPSA Annual Review Letter"





### How we Monitor Other safety indicators

- Mostly by means of using an "event" such as
  - incomplete referral
  - no referral
  - not loading protocol
- Can then use Events by date range report
- A List view for Missed ID card will pick up any patient not given educational leaflets and alert card



### **Summary and Acknowledgements**

- NPSA safety alert gives us a framework to improve patient anticoagulant care and raise standards in the Anticoagulant Clinic
- Reports are available from DAWN AC to enable the gathering of audit data to achieve this
- Annual review of each patient is easily prompted by the use of a list view and bulk letter template

Thanks to Brenda, Louise, Tracy and George for making this possible.....



## ...and making our busy life a little bit easier!!!!!!!!





# Thank you