

An Academic Health Sciences Centre for London

Pioneering better health for all

The drugs don't work, if the patients don't take them! Improving patient adherence



Disclosures

Duncan McRobbie has received consultancy and speaker fees from a Boeringher, Bayer, Daiichi Sankyo and Pfizer.

Duncan McRobbie has received research grants from sanofi and Bayer.



How big is the problem?

Medicines cannot be effective if patients do not use them

There are varying estimates on the size of the problem:

- Between 33% and 50% of medicines for LTCs are not used as recommended
- 20-30% don't adhere to regimens that are curative or relieve symptoms
- 30-40% fail to follow regimens designed to prevent health problems

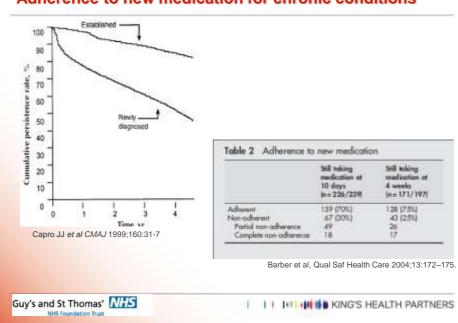
Poor adherence has significant consequences to clinical outcomes for patients

Poor adherence has a significant economic impact

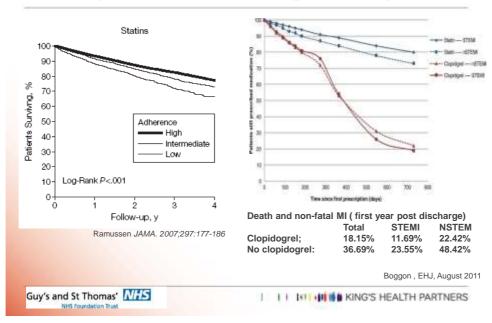
Adherence is difficult to measure and even more difficult to ensure



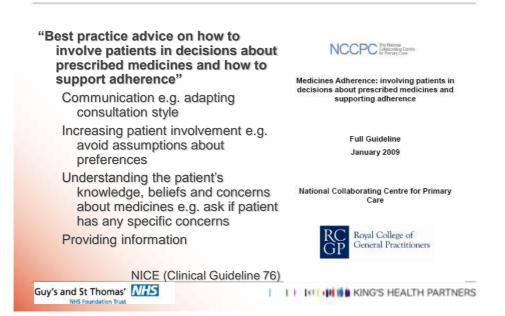
Adherence to new medication for chronic conditions



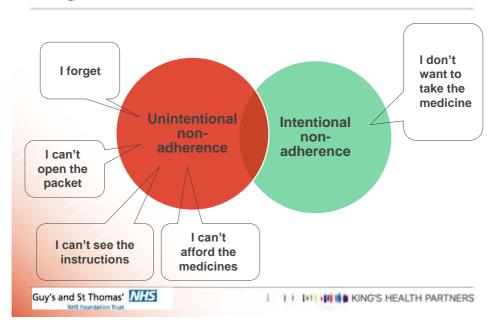
Relationship Between Adherence and Long-term Mortality After AMI



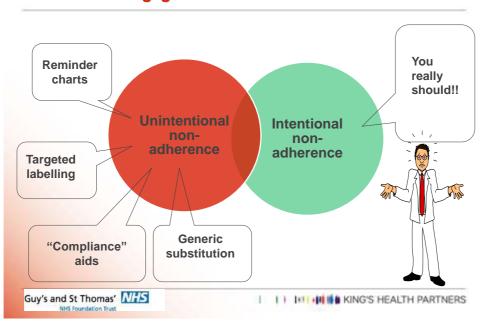
Adherence



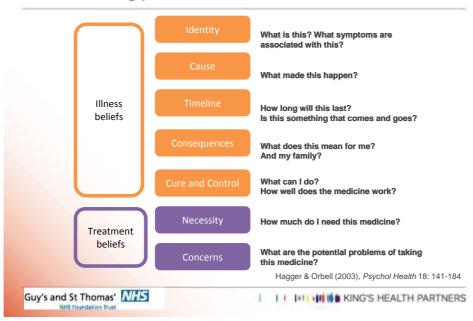
Categories of non-adherence



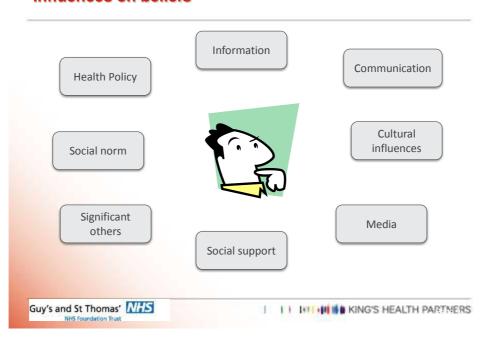
Pharmacists engagement with non-adherence



Addressing intentional non-adherence Understanding patients' illness and treatment beliefs



Influences on beliefs



Satisfaction with information provided

 Low satisfaction with information about medicines is associated with non-adherence to medicine (Aikens, 2009; Bowskill, 2007; Horne, 2001)



SIMS: Action and Usage

- 1. What your medicine is called
- 2. What your medicine is for
- 3. What it does
- 4. How it works
- 5. How long it will take to act
- 6. How you can tell if it is working
- 7. How long you will need to be on your medicine
- 8. How to use your medicine
- 9. How to get a further supply



SIMS: Potential problems

- 10. Whether the medicine has any side effects
- 11. What are the risks of you getting side effects
- 12. What you should do if you experience side effects
- 13. Whether you can drink alcohol whilst taking this medicine
- 14. Whether the medicine interferes with other medicines
- 15. Whether the medication will make you feel drowsy
- 16. Whether the medication will affect your sex life
- 17. What you should do if you forget to take a dose

Horne et al Quality in Health Care, 2001



Satisfaction with information received

ACTION & USAGE	Too	About	Too	None	None	%
(% of total)	much	right	little	received	needed	Satisfied
1. What your	3	78	4	2	13	91
medicine is called						
What your	2	80	3	2	13	93
medicine is for						
3. What it does	1	75	8	1	15	90
4. How it works	2	62	13	- 8	15	77
5. How long it will	0	53 /	12	15	20	73
take to act		()	(
6. How you can tell	0	44	12	20	24	68
if it is working						\setminus \angle
7. How long you will	0	69	6	10	15	84
need to be on your						
medicine						
8. How to use your	0	76	1	4	19	95
medicine						
9. How to get a	0	63	4	7	26	89
further supply						

n=117 cardiac patients at GSTT



Satisfaction with information received

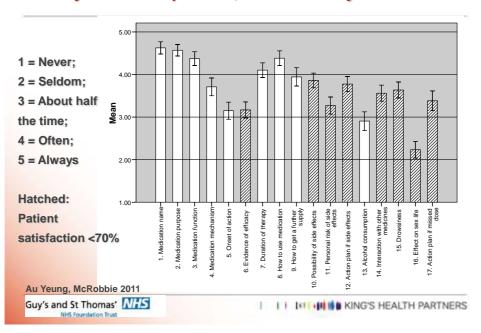
POTENTIAL PROBLEMS (%	Too	About	Too	None	None	%
of total)	much	right	little	received	needed	Satisfie
10. Whether the medicine has any side effects	2	41	16	15	26	67
11. What are the risks of you getting side effects	3	35	20	19	23	58
12. What you should do if you experience side effects	1	37	19	20	23	60
13. Whether you can drink alcohol whilst taking this medicine	1	36	7	24	36	72
14. Whether the medicine interferes with other medicines	0	40	13	23	23	63
15. Whether the medication will make you feel drowsy	1	42	10	25	24	66
16. Whether the medication will affect your sex life	2	16	6	35	41	57
17. What you should do if you forget to take a dose	1	41	14	22	22	63

n=117 cardiac patients at GSTT

Guy's and St Thomas' NHS



"When you counsel patients, how often do you discuss..."

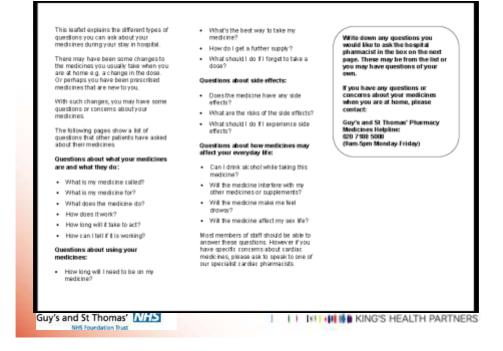


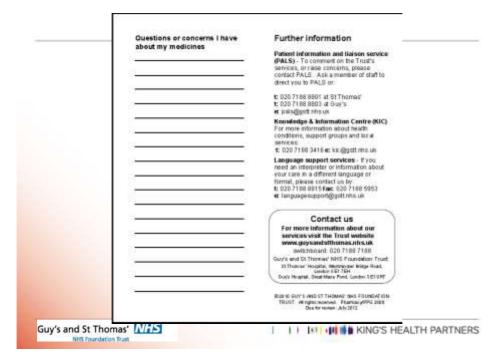
Improving satisfaction Guy's and St Thomas' WHS Questions about Empowering patients (it is OK to your medicines ask questions about your medicines) ormat Targeting information provision to patients needs (rather than telling them what we think they need to know) Signposting to other information DESIGNATION OF sources (questions about medicines may arise after discharge from hospital)

Guy's and St Thomas' NHS

July 2010

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Effect of the "Questions about your medicines "leaflet.

Action and Usage		Too much	About right	Too little	None received	None needed	% Satisfied	% improvement in satisfaction	% change in "None needed" T0-T1
What your medicine is called.	T0 T1	4	84 87	4 2	3 0	7 12	91 99	8	-5
2. What your medicine is for.	T0	3	87	3	2	6	93	5	-4
	T1	0	88	2	0	10	98	,	
3. What it does.	T0	2	80	9	2	9	89	8	-3
	T1	0	85	2	2	12	97		-3
4. How it works.	T0	2	65	45	9	10	75	12	-3
	T1	0	74	6	7	13	87	12	-3

Data from Baseline service evaluation (n = 117) and with QAM leaflet (n = 114)



Effect of the "Questions about your medicines "leaflet.

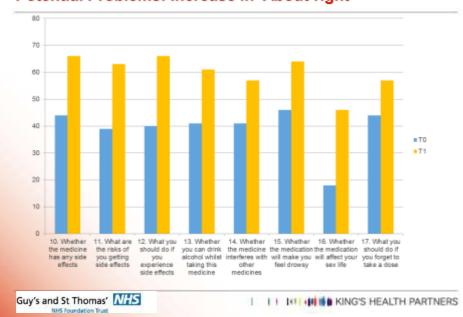
Action and Usage		Too much	About right	Too little	None received	None needed	% Satisfied	% improvement in satisfaction	% change in "None needed" T0-T1
5. How long it will take to	T0	0	56	12	16	15	71	5	0
act.	T1	0	61	12	11	15	76		
6. How you can tell if it is working.	T0	0	46	13	22	20	66	11	6
	T1	0	63	7	16	14	77		U
7. How long you will need to	T0	0	74	6	10	10	84	3	0
be on your medicine.	T1	1	77	3	10	10	87	3	
8. How to use your	T0	0	83	0	3	13	96	0	1
medicine.	T1	0	85	1	2	12	96	U	'
9. How to get a further supply	T0	0	69	3	7	22	91	5	5
	T1	1	79	3	1	14	96		3

Data from Baseline service evaluation (n = 117) and with QAM leaflet (n = 114)

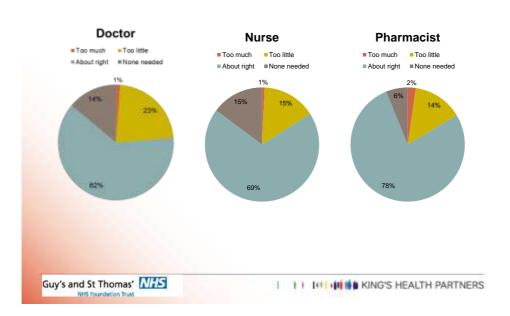


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Potential Problems: Increase in 'About right'



Did you get enough information from the...



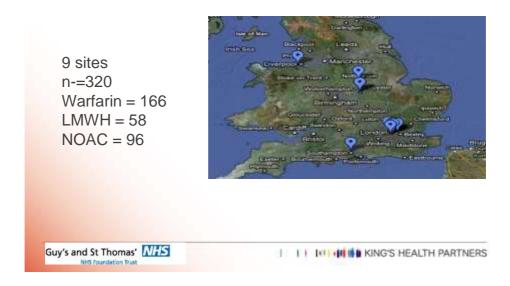
Discontinuation rates in NOAC trials

		Year 1	Warfarin	Year 2	Warfarin	TTR
Dabigatran 150	Rely ¹	15.5%	10.2%	21.2%	16.6%	64%
Dabigatran 110	Rely ¹	14.5%	10.2%	20.7%	16.6%	64%
Rivaroxaban	Rocket AF ²	NR	NR	23.7%	22.2%	55%
Apixaban	Aristotle ³	NR	NR	25.3%	27.5%	62%

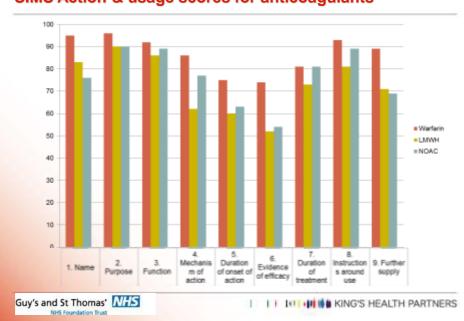
- Connolly SJ et al. N Engl J Med 2009;361:1139–5; Patel MR et al. NEJM 2011;365:883–91 Granger et al. N Eng J Med 2011;365:981-92.



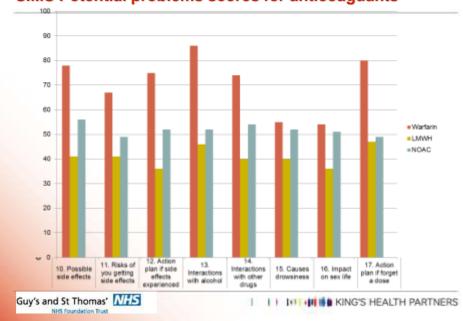
A multi-centre study of patients' satisfaction with information on anticoagulants

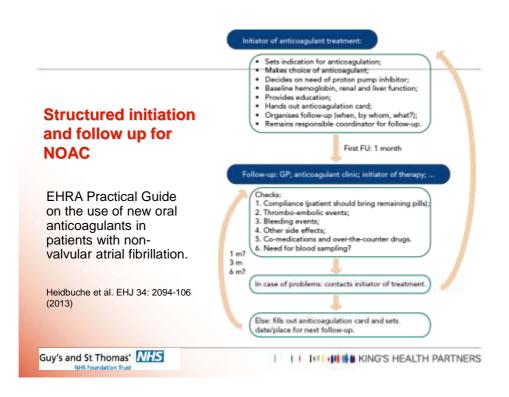


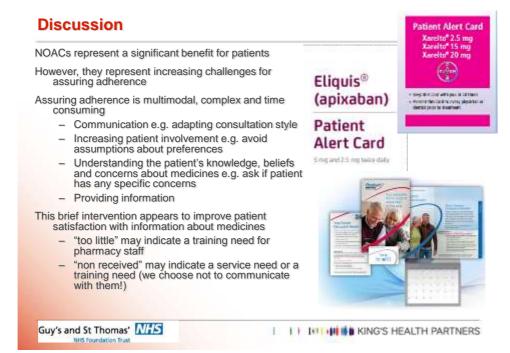
SIMS Action & usage scores for anticoagulants



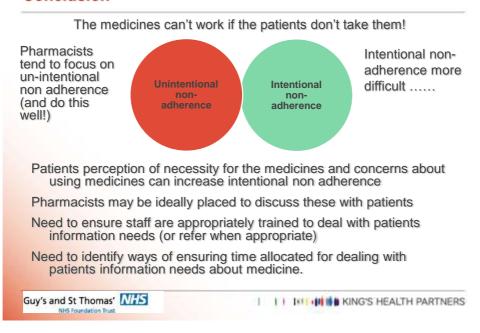








Conclusion



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