### Improving prescribing safety in general practices in the East Midlands through the **PINCER** intervention

#### PINCER is a research proven pharmacist-led IT intervention that has been developed to reduce prescribing errors in primary care. The aim of the project is to spread this proven intervention to at least 150 general practices in the East Midlands region within two years, and to evaluate both the implementation and impact of this.



### What does it involve?

- Searches conducted on GP computer systems to identify patients at risk from common and important prescribing errors
- Pharmacists, specifically trained in the PINCER approach, working with each general practice to develop an action plan
- Pharmacists (and pharmacy technicians) working with and supporting general practice 3. staff to implement the action plan



### Implementation





PINCER Scaling Up Improvement Project

#### **Engagement with CCGs**





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- Total number of CCGs = 9
- Two more CCGs coming on board July 2016
- Total number of participating practices = 207





- Number of practices = 207
- Total list size = 1,664,735
- Mean list size = 8,042
- Total number of instances of potentially hazardous prescribing = 12,913
- Follow-up searches and retrospective data collection taken place in 34 GP practices

#### Number of "at-risk" patients identified at baseline in 9 CCGs for each prescribing safety indicator

Query	Prescribing safety indicator	Numerator/ denominator	(%)	Mean pts/practice*		
Outcome: GI Bleed						
A	Patients aged ≥65 years prescribed an oral NSAID without co-prescription of an ulcer-healing drug/Patients aged ≥65 years without co-prescription of an ulcer-healing drug	4992/204709	2.4	24.1	(25)	
В	Patients aged ≥18 years with a history of peptic ulceration prescribed an oral NSAID without co-prescription of an ulcer-healing drug/Patients aged ≥18 years with a history of peptic ulceration without co-prescription of an ulcer-healing drug	228/10011	2.3	1.1	(<1)	
С	Patients aged ≥18 years with a history of peptic ulceration prescribed an antiplatelet drug without co- prescription of an ulcer-healing drug/Patients aged ≥18 years with a history of peptic ulceration without co- prescription of an ulcer-healing drug	773/10011	7.7	3.7	(2)	
D	Patients aged ≥18 years prescribed warfarin or NOAC in combination with an oral NSAID/Patients aged ≥18 years prescribed warfarin or NOAC	354/28523	1.2	1.7	(<1)	
E	Patients aged ≥18 years prescribed warfarin or NOAC and an antiplatelet drug in combination without co- prescription of an ulcer healing drug/Patients aged ≥18 years prescribed warfarin or NOAC without co- prescription of an ulcer healing drug	682/17882	3.8	3.3	(2-3)	
F	Patients aged ≥18 years prescribed aspirin in combination with another antiplatelet drug without co- prescription of an ulcer-healing drug/Patients aged ≥18 years prescribed aspirin without co-prescription of an ulcer-healing drug	1735/37826	4.6	8.4	(6-7)	
Outcome: Exacer	bation of asthma					
G	Patients aged ≥18 years with a Read code for asthma prescribed a non-selective beta-blocker/ Patients aged ≥18 years with a Read code for asthma	1515/163149	0.9	7.3	(2-3)	
Н	Patients aged ≥18 years with a Read code for asthma prescribed a long-acting beta-2 agonist inhaler who is not also prescribed an inhaled corticosteroid / Patients aged ≥18 years with a Read code for asthma prescribed a LABA	622/3964	15.7	3.0	(1)	
Outcome: Heart f	ailure					
I	Patients aged ≥18 years who have a diagnosis of heart failure prescribed an oral NSAID / Patients aged ≥18 years who have a diagnosis of heart failure	275/13418	2.0	1.3	(2)	
Outcome: Stroke						
J	Patients aged ≥65 years with a Read code for dementia but no Read code for psychosis prescribed antipsychotic drugs for >6weeks / Patients aged ≥65 years with a Read code for dementia but no Read code for psychosis	1275/12816	9.9	6.2	(2)	

## www.pincer.info

# **Opincerscaleup**