Standard operating procedure

Procedure: Guide for using Eclipse Live for drug monitoring and easy searching

Number: 1.2

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Procedure overview

Guide to demonstrate how to access Eclipse Live, run searches within the system and how to obtain patient monitoring alerts

Requirements

Practices should have logins for eclipse live and review how to use the data to improve safety within their practice

Procedure

ECLIPSE stands for: "electronic checking leading to improved prescribing safety & efficiency".

Eclipse Live is a risk stratification system which can be used to help identify patients who may be at an increased risk of harm. As well as the reducing admissions from drug associated reactions (RADAR) searches, the adhoc search function is useful for performing quick, efficient searches with or without specific criteria. Eclipse Live can be particularly useful for reviewing patient monitoring.

How to access Eclipse Live

Log on to the Eclipse Live system via NHS pathways. Here you will need to enter your username and password on the first log in screen.
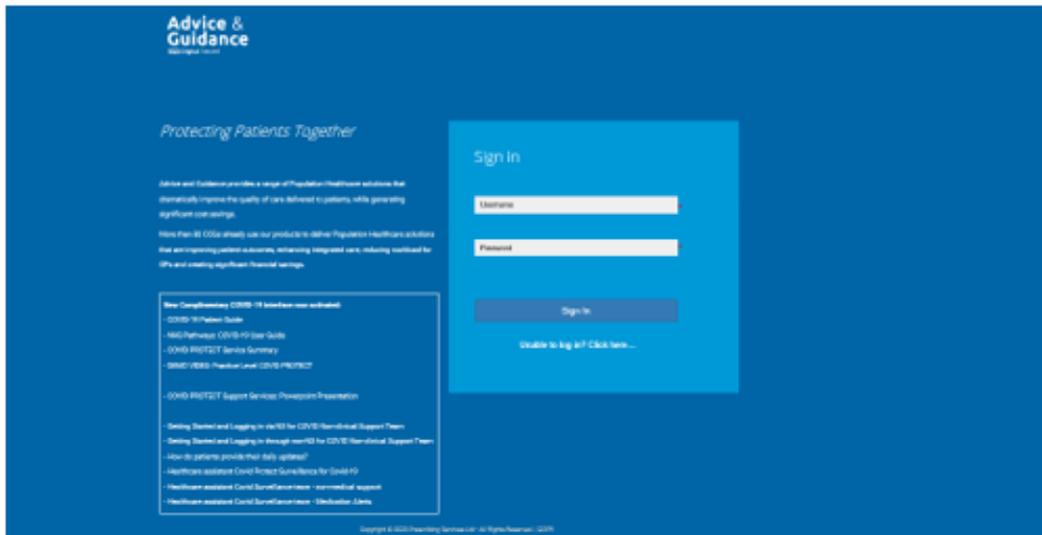
You will then be prompted to request a passcode. This will be set up to email the passcode to the email address registered with your account. You can also request the ability to have passcodes sent via text message to your mobile phone.
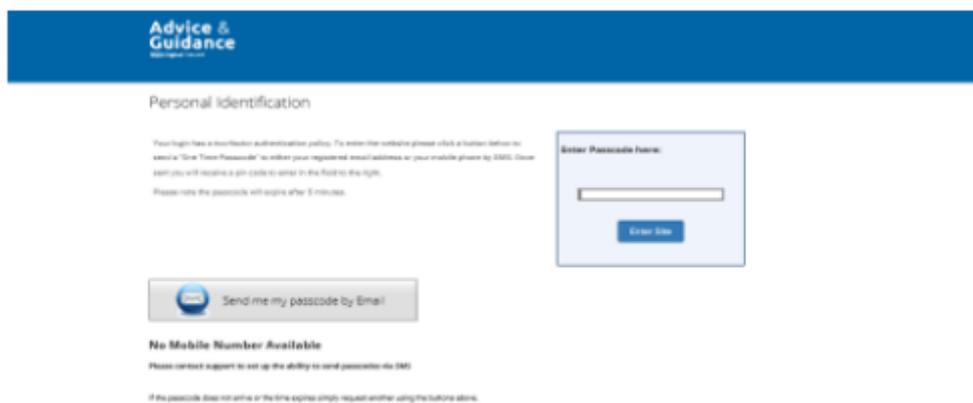
Select 'Eclipse Live'
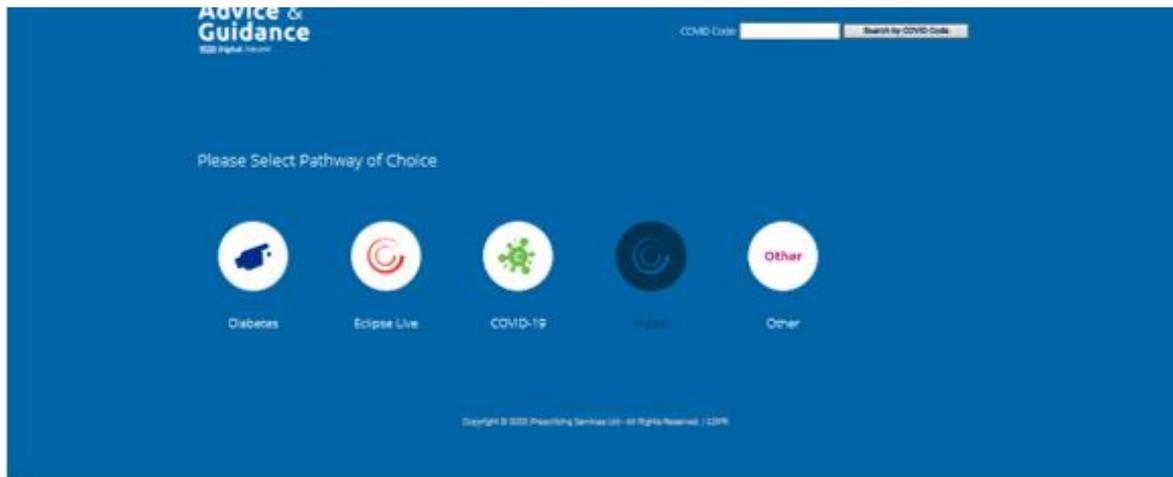
Adhoc searches

Once logged into Eclipse Live select 'Eclipse Radar 500 (Red Alerts)'

Click 'search' on the menu bar. This will allow you to create adhoc searches and examples are given below.

Pathway: **Eclipse Radar** ↓   **NHS Kernow CCG** ↓ |

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Alert Breakdown

 Alert Breakdown

 Alert Breakdown by Patient

Example search one:

Patients prescribed levothyroxine who have not had their thyroid stimulating hormone (TSH) checked in the past 12 months (this example is also one of the preset monitoring alerts)

Be aware that searches are pre-set to look for the top 1000 patients at the practice – it must be blank for the search to cover all patients

Example search two:

Patients prescribed ramipril who have not had their estimated glomerular filtration rate (eGFR) checked in the past 12 months and whose blood pressure is above the target

It is easy to add extra criteria such as additional drugs, monitoring (for example, eGFR), conditions and/or patient specifics to the adhoc search parameters by using the drop-down menu boxes. By simply selecting the specific searching criteria required this will refine the results to a concise list of patients meeting those criteria and by doing so this can significantly reduce time reviewing results of searches. The concise list of patients will include the date and test results and this list can also be downloaded to an excel spreadsheet.

Example search three:

Patients on ramipril and bendroflumethiazide, over 80 years old, who have not had their eGFR checked in the past 12 months and whose blood pressure is above the target.

Before searching it is important to check when the last data import occurred to ensure you are working with up-to-date information. The import date can be found on the search page above the search parameters box, as shown below:

The search function contains the following possible criteria in the medication and condition section, which may require further explanation for new users:
- Must contain all
- Must contain any

- Use BNF (British National Formulary)

If the user were to include drug 1, drug 2, drug 3 (comma separated) in must contain all - then this would include those patients on all these 3 listed medications.

If the user were to include drug 1, drug 2, drug 3 (comma separated) in must contain any then this would include those patients who are on at least one of these 3 listed medications (and not essentially all 3 medications).

There is also a box that a user can tick to 'Use BNF'. The 'Use BNF' selection (checkbox) allows the extending of the medication search to include any medication in the same BNF classification. For example, if the user were to include pravastatin - and the user selected 'Use BNF' then this would also include any medications in the same BNF classification (lipid-regulating drugs).

Reviewing pre-set patient monitoring alerts

Once logged into Eclipse Live select 'Overall Monitoring'. This will give a brief trend analysis of how the practice alert breakdown is compared to the other practices in the NHS Kernow Clinical Commissioning Group (NHS Kernow).
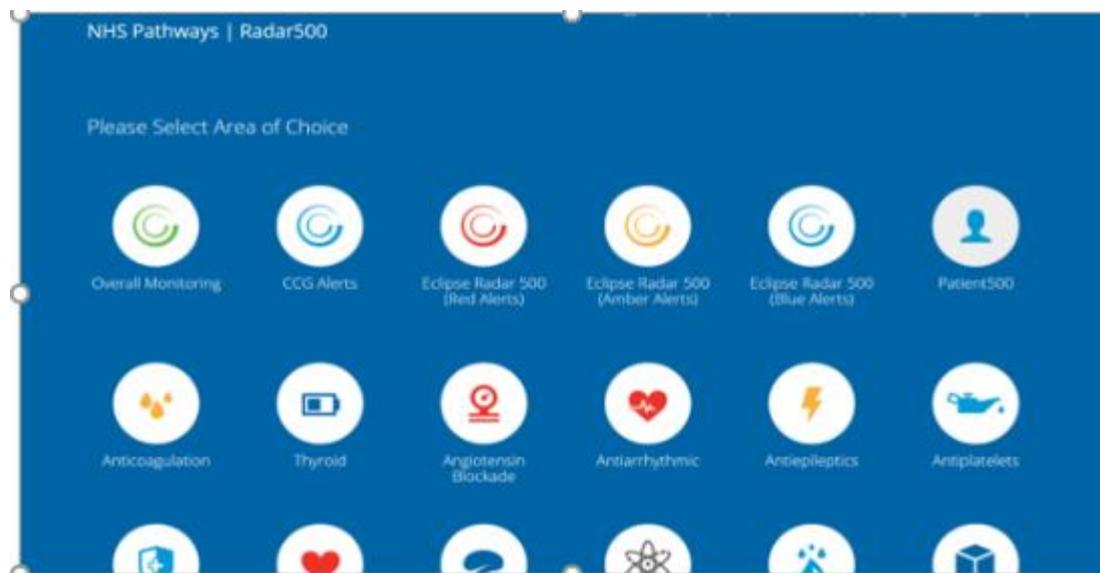
Scroll to the bottom of the page and select one of the Eclipse Radar 500 monitoring icons (priority, amber or blue monitoring). The blue monitoring module also contains prescribing safety indicators. Alternatively, the Eclipse Radar modules can also be selected from the Eclipse Live front page as shown in the image above.

Dementias (ACI)	14	13 (92.86%)	9 / 13
Diabetes	236	205 (86.86%)	19 / 21
Diuretics	194	185 (95.36%)	6 / 21
DMARDs	29	19 (65.52%)	8 / 21
Immunosuppressant Agents	14	5 (35.71%)	3 / 21
Lipid Regulation	687	685 (99.71%)	3 / 21
NSAIDS	96	93 (96.88%)	2 / 21
Respiratory	247	246 (99.60%)	6 / 19

Monitoring

Eclipse Radar 500 (Priority Monitoring)   Eclipse Radar 500 (Amber Monitoring)   Eclipse Radar 500 (Blue Monitoring)

This shows more detail on all of the alerts. There are 2 ways to access more detail:
1 - View a list of patients with alerts and which alerts they have
2 - View a list of alerts and which patients have that alert

For the examples below of alert breakdown by patient and alert breakdown the blue Eclipse Radar 500 (blue monitoring) icon was selected.

Alert breakdown by patient

You can see all of the patients who have an alert and which alerts they have by clicking the excel icon 'alert breakdown by patient'. This is useful if you want to identify patients with the most alerts.

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Alert Breakdown

 Alert Breakdown

 Alert Breakdown by Patient

Monitoring

	Alerts	Patients	Unreviewed
Blue	68	267	267
Overall	68	267	267

Prescribing Safety

	Alerts	Patients	Unreviewed
Overall	6	34	31

(Prescribing Safety first row): Alerts 6, Patients 34, Unreviewed 31

QI SMART Prescribing Safety

	Alerts	Patients	Unreviewed
	5	18	18
Overall	5	18	18

Monitoring Alerts

Alerts: **68** - Patients: **267** - Unreviewed: **267**

Level	Type	Search		Total Patients	Reviewed

All patients are listed with all of the alerts that they have. (The number in Column A is the patient reference- removed for the example below)

	C Search 1	D	E Search 2	F	G Search
	Diuretic: Caution: Loop Diuretic detected in patient with Hyponatremia (Sodium	Reviewed: NO	Angiotensin: Caution: ACE or ARB detected and hyponatraemia (serum	Reviewed: NO	
	Patient appears to be on a loop Diuretic which is contra-indicated in hyponatraemia. 1. Please validate that the patient's latest blood screen shows significant hyponatraemia and that they are still taking their loop		Patient appears to be on either a ACE or ARB with hyponatraemia. 1. Please validate that the patient's latest blood screen shows significant hyponatraemia (<125) and that they are still taking their ACE or ARB (Azilsartan, Candesartan, Irbesartan, Losartan,		
	Antiplatelet: Caution: Multiple antiplatelet agents detected with anaemia (Hb	Reviewed: NO	Antiplatelet: Caution: Antiplatelet agent detected with anaemia (Hb >=9 & <	Reviewed: NO	
	Patient appears to have anaemia and on multiple antiplatelet agents that can exacerbate the anaemia. 1. Please validate that the Patient's latest blood screen shows significant anaemia and that they are still taking their multiple		Patient appears to have anaemia and is on an antiplatelet agent that can exacerbate the anaemia. 1. Please validate that the patient's latest blood screen shows anaemia and that they are still taking their blood thinning agent		
	Antiplatelet: Caution: Multiple antiplatelet agents detected with anaemia (Hb	Reviewed: NO	Antiplatelet: Caution: Antiplatelet agent detected with anaemia (Hb >=9 & <	Reviewed: NO	
	Patient appears to have anaemia and on multiple antiplatelet agents that can exacerbate the anaemia. 1. Please validate that the Patient's latest blood screen shows significant anaemia and that they are still taking their multiple		Patient appears to have anaemia and is on an antiplatelet agent that can exacerbate the anaemia. 1. Please validate that the patient's latest blood screen shows anaemia and that they are still taking their blood thinning agent		
	Anticoagulation: Priority Monitoring: Apixaban, Edoxaban or Rivaroxaban	Reviewed: NO	Diuretic: Priority Monitoring: Loop Diuretic detected in patient with renal failure	Reviewed: NO	Anticoagulation: Monitoring: Apix Edoxaban or Dabigatran detected
	Patient appears to be on a NOAC which is contra-indicated in severe renal failure and no recent creatinine blood test. 1. Please validate that the patient's latest blood screen shows renal failure and that they are still taking their NOAC (Apixaban, Edoxaban,		Patient appears to be on a loop diuretic and due for monitoring. 1. Please validate that the patient is indeed on a loop diuretic (bumetanide, furosemide, torsemide) and that no recent creatinine test has been performed.		Patient appears to be on a NOAC an recommended that ALT is monitored 1. Please validate that the patient is Edoxaban or Dabigatran) and that no
	Antiplatelet: Caution: Antiplatelet agent detected with severe anaemia (Hb <	Reviewed: NO			
	Patient appears to have anaemia and is on an antiplatelet agent that can exacerbate the anaemia. 1. Please validate that the patient's latest blood screen shows significant anaemia and that they are still taking their blood thinning				
	Antiplatelet: Caution: Antiplatelet agent detected with severe anaemia (Hb <	Reviewed: NO			
	Patient appears to have anaemia and is on an antiplatelet agent that can exacerbate the anaemia. 1. Please validate that the patient's latest blood screen shows significant anaemia and that they are still taking their blood thinning				
	Diuretic: Caution: Potassium Sparing Diuretic detected in patient with	Reviewed: NO	Diuretic: Caution: Thiazide detected in patient with severe renal failure (eGFR	Reviewed: NO	
	Patient appears to be on potassium sparing diuretics which are contra-indicated in hyperkalaemia. 1. Please validate that the patient's latest blood screen shows significant elevation of potassium (>5.7) and that they are still taking		Patient appears to have renal impairment and is on a thiazide. Thiazides are ineffective if eGFR is less than 30mL/minute/1.73m2 and should be avoided. 1. Please validate that the patient's latest blood screen shows renal		
	Antibiotics: Caution: Nitrofurantoin		DMARD: Caution: Mycophenolate detected		

Alert breakdown:

If you prefer to look at each alert individually and which patients have it click the excel icon 'alert breakdown'.

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Alert Breakdown

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 Alert Breakdown by Patient

Monitoring	Alerts	Patients	Unreviewed
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Overall	68	267	267

Prescribing Safety	Alerts	Patients	Unreviewed
	6	34	31
Overall	6	34	31

QI SMART Prescribing Safety

	Alerts	Patients	Unreviewed
	5	18	18
Overall	5	18	18

Monitoring Alerts
Alerts: **68** - Patients: **267** - Unreviewed: **267**

Level	Type	Search		Total Patients	Reviewed

This now shows a breakdown of each alert, what it is and how many patients have that alert.

	A	B	C	D	E	F
28	Information	03/05/2020	Antiplatelet: Priority Monitoring: Patient on antiplatelet, has Anaemia (Hb >=10 & < 11.5g/dl), needs repeat FBC (Hb >180 days).	2	0	View
29	Information	03/05/2020	Antiplatelet: Monitoring: Patient is on multiple antiplatelets and no recent FBC (Hb >365 days)	1	0	View
30	Information	03/05/2020	Immunosuppressant: Monitoring: Azathioprine detected, due Seasonal Flu Vaccine (>365 days)	3	0	View
31	Information	03/05/2020	Aminosalicylate: Monitoring: Mesalazine detected with liver impairment (ALT >50) and due LFTs (Bilirubin >180 days)	1	0	View
32	Information	03/05/2020	DMARD: Monitoring: Sulfasalazine detected and due FBC (Hb >365 days)	1	0	View
33	Information	03/05/2020	DMARD: Monitoring: Methotrexate detected and due LFTs (Bilirubin >90 days)	6	0	View
34	Information	03/05/2020	DMARD: Monitoring: Methotrexate detected and due U&Es (Creatinine >90 days)	6	0	View
35	Information	03/05/2020	Immunosuppressant: Monitoring: Azathioprine detected, due U&Es (Creatinine >180 days)	1	0	View
36	Information	03/05/2020	Anticoagulation: Monitoring: Warfarin detected and BP now due (>365 days)	7	0	View
37	Information	03/05/2020	Anticoagulation: Monitoring: Warfarin detected and U&Es now due (Creatinine >365 days)	6	0	View
38	Information	03/05/2020	Anticoagulation: Monitoring: Warfarin detected and FBC now due (Hb >365 days)	7	0	View
			Anticoagulation: Monitoring: Warfarin detected			

To see the list of patients with a particular alert click 'view'. This shows the alert criteria with a list of patients for that alert. Column A shows patient reference (removed in example picture below).

In order to review the amber and red alerts select the amber or red monitoring icon from the Eclipse Live home page.

Prescribing safety indicator report

There is a prescribing safety indicator report available via Eclipse Live. This shows how many patients are meeting each of the prescribing safety indicators.

Once logged into Eclipse Live scroll to the bottom of the page and select 'Prescribing Safety'

To see the list of patients who are not meeting a particular prescribing safety indicator click 'view'.

User Guide

For further help, the user guide for the Radar Alerts can be accessed by any user by clicking the help button on the top right of the main page.