





# DIDE transforming data into information and intolligar

SPIRE – transforming data into information and intelligence

Libby Morris, Paula McClements SPIRE Project Team







- Aim and Objectives
- Progress
- Rollout
- Public Information
- Training
- Extracts and Reports
- TQA and the relationship with SPIRE
- Communications



Why SPIRE?



- GP data the most comprehensive source on the health of the Scottish population
- Fragmented across 1,000 practices & data of variable quality
  - Data & intelligence not universally available to those who require it (including GPs)
  - Large amounts of Secondary Care Information
- Currently many different ways of extracting and reporting data
  - Single purpose rather than multiple
  - Duplication
  - Impact on GP workload
- Variation in the Information Governance applied





### Aim:

Improve the management of information in GP clinical systems, **simplify** processes for GPs and **provide transparency** for patients.

#### **Objectives:**

- 1. Provide a single process for GPs to manage information
- 2. Secure, flexible, Scotland wide GP data extraction / reporting system
- 3. Support any new contractual arrangements with GPs (DES, LES, HB audit, appraisal, Quality Improvement)
- 4. Provide an analytical service for GP practices, NHS Boards, Research and the Scottish Government

The service will include robust information governance

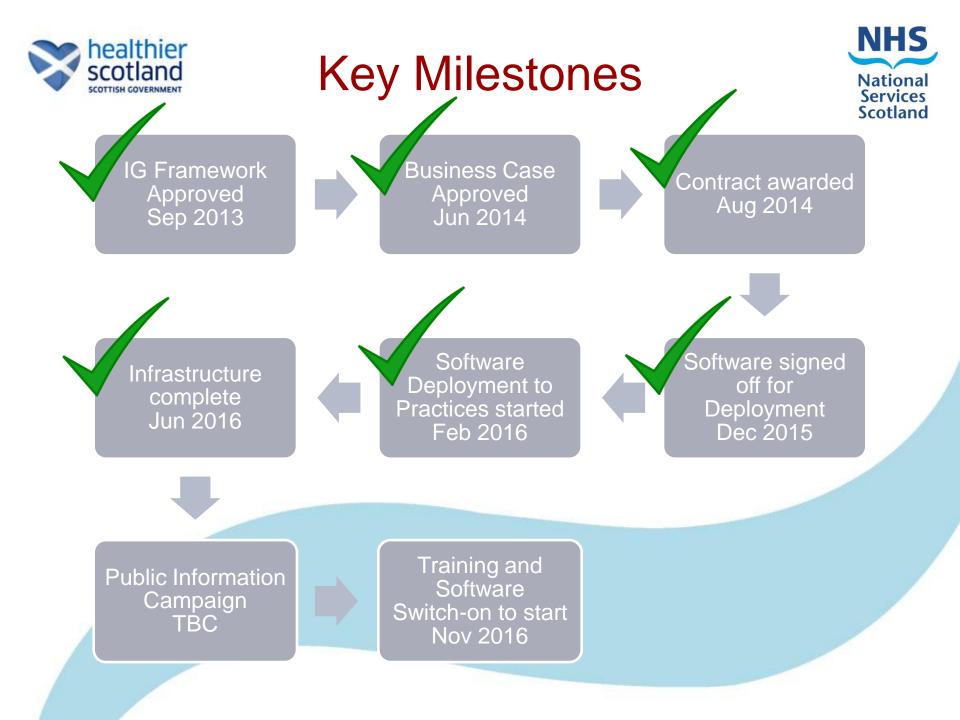
The service will be managed / provided by the Public Health Intelligence Unit within NSS (ISD and HPS).







- a key element of SPIRE
  - Control remains with practices
- Practice participation in SPIRE is <u>voluntary</u>; practices can choose which aspects/extracts they use
- Patients can opt-out of any patient level data being extracted through SPIRE
  - Public Engagement Campaign benefits & ability to opt out
  - Opt-out recorded on practice clinical system (READ codes)
  - Opted out patients will be excluded from patient level data extracts but not anonymised reports such as QOF
- SPIRE Steering Group (Independent Advisory Group)
  - Scrutinise all new proposed data extracts/linkages
  - Includes SGPC, RCGP & patient representation

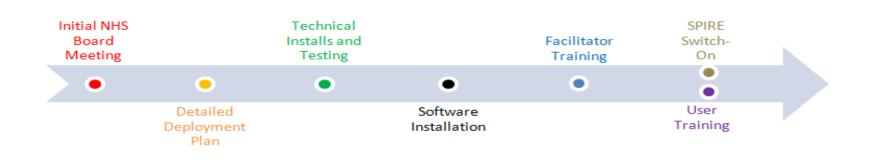




## SPIRE Rollout



- Software is currently being rolled out across Scotland
- Phased approach in NHS Boards
  - Software installed first to ensure no conflict with existing local systems
  - "Switch on" happens after local training/awareness
  - no data will be extracted until after public information campaign
- SPIRE software is installed in NHS Dumfries & Galloway and NHS Greater Glasgow & Clyde; under way in Tayside, Lanarkshire & Forth Valley; planning with other Boards
- On track to be completed by end January 2017





## **Public Information**



### **Public Information Campaign**

- Awaiting approval from Cabinet Secretary – expected January 2017
- Scotland-wide radio campaign and posters in public places
- Help line NHS24 for patients
- Practice toolkit for all practices
- Toolkit includes leaflets, opt out forms, FAQs, posters and other materials
- Website with Patient- and Practicefocussed information and FAQs
- No extraction to take place until eight weeks after start of Public Campaign

#### NHSScotland is improving the way it uses information from GP patient records.













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SPIRE reporting



- Local Reports: to provide individual practices with their own data in a user friendly format
- Extraction: to extract data from practices in a secure, flexible and consistent way to support
  cluster-reporting
  payment
  linkage and research



## SPIRE homepage



# SPIRE Local Portal





79992 - Dr Treacher









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Overview of vaccination uptake		Natio	ces
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Registered Patients	8,747	•	370
Income (Total)	£ 15,212.02	Charts Summary of Uptake and	
· ·		Income	
Eligible Patients (Total)	4,170	Eligible Patients - Childre	n
Immunised Patients (Total)	<u>1,849</u>	Eligible Patients - Adults	2
Immunised Patients - Not Eligible	<u>63</u>		
Immunised Patients - Eligible	<u>1,786</u>	Patients by Condition Grou	squ
<ul> <li>Immunised Patients - 'Less than 65 years'</li> </ul>	534	PSD Submission	
• Immunised Patients - '65 years or older'	1,252	PSD Form	
Not Immunised Patients - Eligible (Total)	2,384	PSD Patient List: < 65 year	rs
• Not Immunised Patients (No Reason)	2,090	PSD Patient List: 65 years	+
Declines/Contraindications/No Consent	<u>294</u>	PSD Patient List: Mop - U	p



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Declined/Contra				me Na Se Sc
GP Practice Name Run date: Patient count:	(code): Practice7 (77777) 09/06/2016 <b>294</b>			
CHINumber ≑	Surname ≑	Forenames 🖯	Date Of Birth  ⇔	Contraindicated consent/Declin Date
7770010050	Surname_10050	Forenames_10050	18/11/1947	22/10/201
7770010064	Surname_10064	Forenames_10064	03/07/1939	27/10/201
7770010139	Surname_10139	Forenames_10139	29/03/1935	10/11/201
7770010158	Surname_10158	Forenames_10158	25/01/1955	26/01/201
7770010164	Surname_10164	Forenames_10164	27/12/1950	10/11/201
7770010178	Surname_10178	Forenames_10178	31/08/1936	09/11/201
7770010223	Surname_10223	Forenames_10223	13/03/1951	09/11/201
7770010230	Surname_10230	Forenames_10230	16/11/1925	22/10/201
7770010250	Surname_10250	Forenames_10250	30/08/1945	10/11/201
7770010251	Surname_10251	Forenames_10251	07/12/1948	28/10/201
7770010296	Surname_10296	Forenames_10296	10/08/1943	09/11/201
7770001031	Surname_1031	Forenames_1031	27/12/1951	12/11/201
7770010323	Surname_10323	Forenames_10323	26/06/1944	27/10/201
7770010355	Surname_10355	Forenames_10355	01/06/1943	08/03/201
7770010397	Surname_10397	Forenames_10397	14/01/1936	16/09/201







#### Declines/Contraindications/Non Consent:

This is the count of all registered patients who have declined, have a contraindication or not consented to the flu vaccination. It is a subset of 'Not Immunised Patients (Total)'.

Selection of Read Codes V2 indicating patient has a contraindication, allergy or intolerance

Read Code (V2)	Description
14LJ.	H/O: influenza vaccine allergy
8I2F.%	Influenza vaccination contraindicated
8I2F0	Seasonal influenza vaccination contraindicated
U60K4	[X]Influenza vaccine causing adverse effects in therapeutic use
ZV14F	[V]Personal history of influenza vaccine allergy

Selection of Read Codes V2 indicating patient has declined a vaccination

Read Code (V2)	Description
9OX5.%	Influenza vaccination declined
EXCLUDE: 90X50	Influenza A virus subtype H1N1 vaccination declined
EXCLUDE: 90X55	First intranasal pandemic influenza vaccination declined
EXCLUDE: 90X57	Second intranasal pandemic influenza vaccination declined

Selection of Read Codes V2 indicating patient has not consented

Read Code (V2)	Description
68NE.%	No consent - influenza imm.





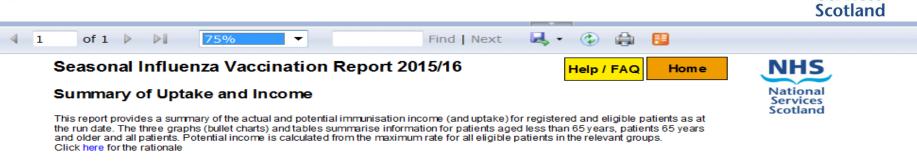




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Seasonal Influenza Vaccination Rep	ort 2015/16	
Overview of vaccination uptake		Nationa Services
GP Practice Name Practice7 (77777) (code):		Scotland
Run Date: 09/06/2016		Uptake: 43%
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Income (Total)	£ 15,212.02	Charts Summary of Uptake and Income
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Declines/Contraindications/No Consent	<u>294</u>	PSD Patient List: Mop - Up



### Uptake and income

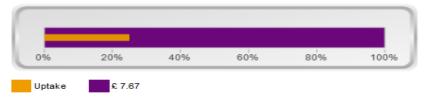


25%

43%

GP Practice Name (code):	Practice7 (77777)		
Run date:	09/06/2016		

Uptake for patients aged < 65 years\*

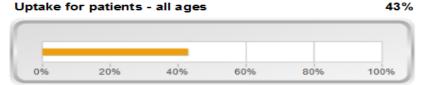


	Patients	Income
Total E ligible*	2,134	£17,525.30
Achieved Immunisations*	534	£4,131.82
Not immunised*	1,600	(£13,393.48)

(\*' Mop up' vaccinations charged at a different rate, see Help/FAQ)



Total Eligible	2,036	£19,118.04
Achieved Immunisations	1,252	£11,080.20
Notimmunised	784	(£8,037.84)



Total Eligible	4,170	£36,643.34
Achieved Immunisations	1,786	£15,212.02
Notimmunised	2,384	(£21,431.32)

Uptake

National

**Services** 







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> Influenza Vaccination Report	> Updated > Patients by Age	_Children			H	ome   Site Setti
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easonal Influenza	Vaccination Repo	ort 2015/16			Help/FAQ	Home
igible Patients by A	ge for Children ag	ged 6 month	is to 17 years			
e chart and table provide a breal ck <u>here</u> for rationale.	down of immunisation status f	or all eligible patier	nts aged 6 months to 1	17 years, as at the ru	n date.	
<sup>o</sup> practice name (code):	Practice7 (77777)					
in date:	09/06/2016					
1000						
800-						
600						
400						
200						
0						
	6 months-2 yrs	2-5 yrs	6-11 yrs	12-17 yrs	Total eligible patients	
Immunised	<u>0</u>	<u>114</u>	<u>17</u>	<u>8</u>	<u>139</u>	
Not Immunised	<u>4</u>	<u>216</u>	<u>529</u>	<u>46</u>	<u>795</u>	
Total	4	330	546	54	934	
Uptake	0%	35%	3%	15%	15%	
	lor <u>0</u>	<u>6</u>	1	<u>0</u>	<u>7</u>	







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## Patients by condition

Seasonal Influ	uenza Vaccinati	on Report 201	5/16 Help/	FAQ Home	NHS					
Untake by Condition Groups										
Convisor										
This series of charts, summarise the immunisation uptake of registered and eligible patients by eligibility group. The highlighted numbers (blue font), can be clicked to 'drill down' to the underlying table of immunised and non-immunised patients.										
Click on a chart's title, hi	chilighted in blue, to see the	condition's rationale.								
GP practice name (code):	Practice7 (7)	7777)								
Run date:	09/06/2016	Immunised Not								
Asp	lenia	Chronic He	eart Disease	Chronic Kidney Disease						
				6						
45	5%	63	3%	76%						
Immunised	<u>17</u>	immunise d	<u>420</u>	immunise d	<u>174</u>					
Not immunised	21	Not immunised	250	Not immunised 5						
Total	38	Total	<u>670</u>	Total	229					
	ver Disease			Diabetes						
45	5%	56	5%	67%						
Immunised	273	Immunised	218	Immunised	310					
Not immunised	338	Not immunised	171	Not immunised	153					
	uppression	Total	ry Disease	Total 463						
	2%	53	3%	41%						
Immunised	116	immunised	390	immunised	99					
Not immunised	46	Not immunised	344	Not immunised	145					
Total	162	Total	734	Total	244					



#### Asplenia

Patients who have ever been diagnosed with an asplenia Read Code.

#### Basic Rule: PNSPLEEN\_COD

Selection of Read Codes V2 indicating a patient diagnosed with Asplenia or dysfunction

Read Code (V2)	Description
14N7.	H/O: splenectomy
7840.%	Total excision of spleen
7841.	Other excision of spleen
7841y	Other specified other excision of spleen
7841 <b>z</b>	Other excision of spleen NOS
78420	Transplantation of spleen
78421	Embolisation of spleen
D104.	Thalassaemia
D1040	Thalassaemia major NEC
D1042	Thalassaemia with haemoglobin S disease







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Seasonal Influenza Vaccination Rep	ort 2015/16	
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				Practice	e Name:	Practice7	Ce	ode: 7 7
laim type	Claim Category	Period	Tick	Period	Tick	Date From: Date To:	Number	List * Date list emai
nfluenza	Age 65 +	Year End		Final			1252	
nfluenza	Under 65 At Risk ('At risk' plus children)	Year End		Final			517	
nfluenza	Child mop up arrangements	Year End		Final			17	
nfluenza	Interim Payment Opt-Out					By ticking this box, you agree to N	IOT receiving an interim	influenza payment
Evidence Lis	the 2015 - 16 Guidance notes for sts: Please email these to the	regional off	ice addro	ess in acc	ordance	company this form. with the accompanying guidant to the local regional office flu mail b		nfluenza Age 65+ and Under

Signed By:

Date :







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Seasonal Inf	luenza Vaccination Re	port 2015/16	Home	NHS	
Immunised P	atients: Primary School	Mop Up		National Services	
GP Practice Na	me (code): Practice7 (7777)	7)		Scotland	
Run date:	09/06/2016				
Patient count:	17				
CHINumber	Surname	Forenames	Date of Birth	Flu Vaccination	
7770002367	Surname_2367	Forenames_2367	17/01/2005	03/11/2015	
7770002417	Surname_2417	Forenames_2417	16/02/2005	09/11/2015	
7770002860	Surname_2860	Forenames_2860	07/01/2006	18/12/2015	
7770002985	Surname_2985	Forenames_2985	22/04/2006	13/11/2015	
7770003115	Surname_3115	Forenames_3115	13/01/2005	16/10/2015	
7770003281	Surname_3281	Forenames_3281	14/11/2006	09/11/2015	
7770003703	Surname_3703	Forenames_3703	31/08/2007	15/10/2015	
7770003866	Surname_3866	Forenames_3866	25/12/2007	20/11/2015	
7770004212	Surname_4212	Forenames_4212	17/09/2008	03/11/2015	
7770004223	Surname_4223	Forenames_4223	27/08/2008	20/11/2015	
7770004284	Surname_4284	Forenames_4284	19/10/2008	17/11/2015	
7770004305	Surname_4305	Forenames_4305	18/11/2008	27/10/2015	
7770004447	Surname_4447	Forenames_4447	17/03/2009	23/10/2015	
7770004460	Surname_4460	Forenames_4460	20/03/2009	13/11/2015	
7770005154	Surname_5154	Forenames_5154	29/05/2008	22/01/2016	
7770005452	Surname_5452	Forenames_5452	12/12/2006	17/11/2015	
7770006602	Surname_6602	Forenames 6602	17/09/2009	13/11/2015	





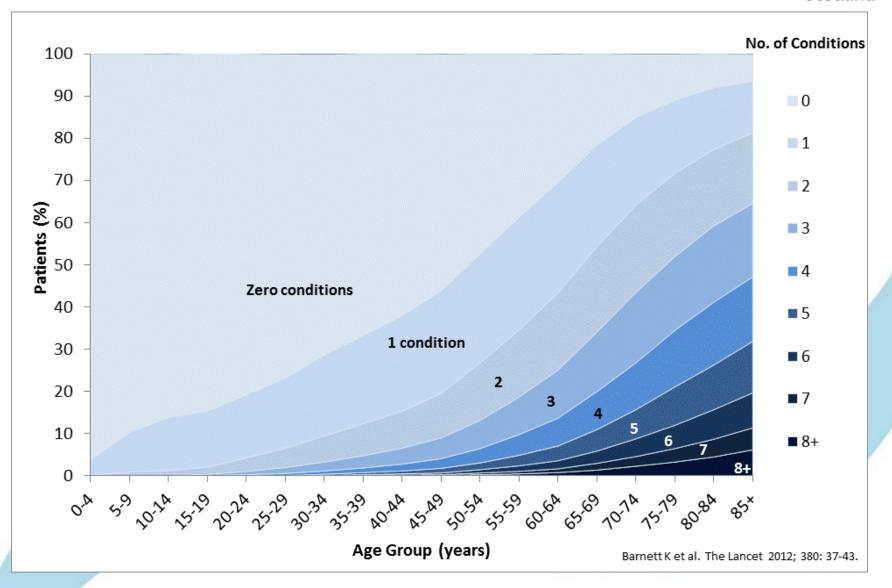


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### **Multimorbidity**

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Home

Help

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#### Multimorbidities Report- Individual Conditions

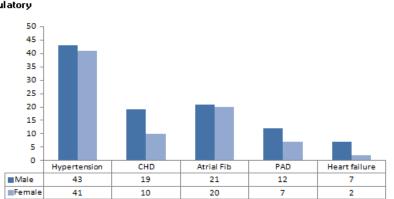
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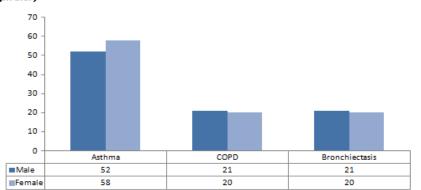
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#### Respiratory

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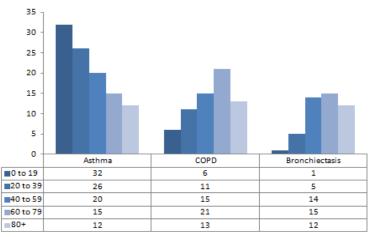
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#### (We will have a chart & table for each body system)

#### Option 2: Spilt by age Circulatory Hypertension CHD Atrial Fib PAD Heart failure 0 to 19 20 to 39 з 40 to 59 60 to 79 80+

Respiratory



14 4 N V Main Dage Conditions ReduSystem MontalysDhysical

V DatiantDrildown Conditions by nationt Tan 5



Other reports



### Patient Safety

- Warfarin
- DMARDs (Methotrexate and Azathioprine)

### Encounters data

- frequent attenders
- people with known conditions who have not attended in the last 3 months, 6 months, year etc
- by Health Care Professional type



## **SPIRE** homepage











**SPIRE** Extracts



- Aggregate, row level, patient identifiable
- Support cluster working and GP Practice comparisons
- DES payments from SPIRE to PSD e.g. flu payments, minor surgery
- Support NHS Board needs
- Support research projects





## scotland So how will we provide data for cluster reporting?

- Extract required data from practices within Cluster (with practice permission)
- Collate and analyse data within NSS
- Feedback to practices via a series of Tableau dashboards, with controlled access
- Exploring functionality to allow practices to link to the reporting tool from SPIRE



What is in the Tableau dashboard so far?



- Primary Care Indicators revamped (previously in Excel spreadsheets)
- Pseudo measures based on secondary care data (such as Emergency Admissions, Outpatients, and Readmissions) – to support QS003
- Prescribing data from community
- Patient experience survey data
- QOF prevalence (top 10 conditions)
- TQA is next



### Tableau dashboard

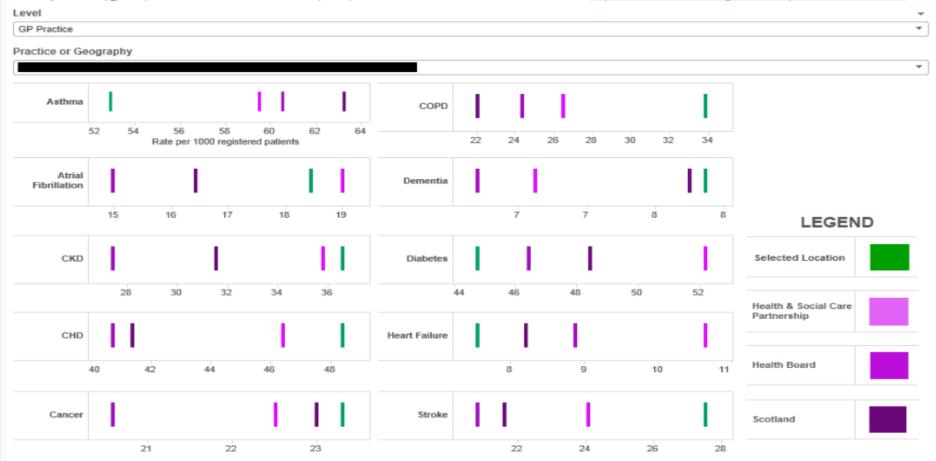


#### Primary Care Indicators: Long term conditions



This page shows long term condition figures (taken from the 2014-15 publication of the Quality & Outcomes Framework (QOF)) for top ten indicators. Shown are crude prevalence rates (per 1000 registered patients). The total number of patients registered with a specific diseaseare also provided by hovering over the graphs. Raw numbers for Health & Social Care Partnerships, Health Boards and Scotland expressed as an average number for all the GP Practices within the geographical area rather than a total number.

On each page in the top right hand there are buttons that take you to other indicators (Arrow icon), back to the home page (House icon), allow you to e-mail us about any issues you have (@ icon), and find out more information (i icon). QOF notes are located on our ISD website <a href="http://www.isdscotland.org/Health-Topics/General-Practice/">http://www.isdscotland.org/Health-Topics/General-Practice/</a>









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	nary Care	Indicators >	PCIs: (	)4 - Outpatier	nts (June	2016) > 🕕 Outp	atients	s - Over	view 🕁					
GP Practice												•	2015 Full Financal Year	· · · · ·
Practice or Geog	raphy												Age Group	
				_								*	All	•
All Conditions							1							_
		155.0	160.0	165.0	170.			180.0	185.	0 1	190.0	195.0		
				Stan	dardised ra	ate per 1000 register	ed patie	ents						
Cardiology						Gynaecology								
	5.5	6.0	6.5	7.0	7.5		14.	.0	15.0	16.0		17.0		
Dermatology						Neurology							LEGEND	
	5.0	10.0	15.0	20.0			3.0		4.0	5.0		6.0	Selected Location	
Ear, Nose & Throat						Ophthalmology								
	8.0	10.0	12.0 14	4.0 16.0			11.5	12	2.0	12.5	13.0	13.5	Health & Social Care	
Gastroenterology						Respiratory Medicine							Partnership	- 1
Add a con	6.0 nment	8	.0	10.0				3.0	4.0	5.0	)	6.0	Health Board	
General Medicine						Trauma							nealth board	
	5.	0 6.0	7.0	8.0			10.0	12.0	14.0	16.0	18.0	20.0		_
General Surgery						Urology							Scotland	
	30.0	35.0	40.0	45 (			2.0		4.0	6.0	8.0	10.0		



**Further Developments** 



- Explore how this tool can become the portal for primary care data extracted from SPIRE to be shared back with practices
- Explore whether other data (e.g. A&E, Social Care, OOH...) can be included
- Working with GPs and colleagues to identify additional content from primary care to populate this tool

Hopefully end up with one tool for practices







- Demonstrations for NHS Boards on request to help visualise SPIRE
- Training sessions as requested
  - With IT Facilitators for consultation
  - With end users for awareness / hands-on training
- Different options for training depending on NHS Board needs
  - Aim to provide training in local reports ahead of the Public Information Campaign
  - Flexible approach for timing, according to local needs and availability
- Finalising User Guides, 'How do I' guides and Help text



- SNUG meetings in many NHS Boards
- Other meetings including Practice Managers Network Conference, National IT Facilitator Leads, National Information Leads, Strategic Communicators Group, NHS Scotland Event

### • SPIRE eBulletins:

Issues 3 and 4 issued in March and May 2016 (pre- and post Scottish Election campaign). Issue 5 due out in next few weeks

- SPIRE website, with regular updates taking place
- Input sought from privacy campaigners and patient representatives







## SPIRE website: www.spire.scot email: NSS.SPIRE@nhs.net

