

SPECTRA

Identification of Suspected Severe Asthma Patients in Primary Care

This is a Donated Service Programme funded by AstraZeneca & developed in collaboration with NHS England & Improvement (NHSE&I) and the Accelerated Access Collaborative (AAC)

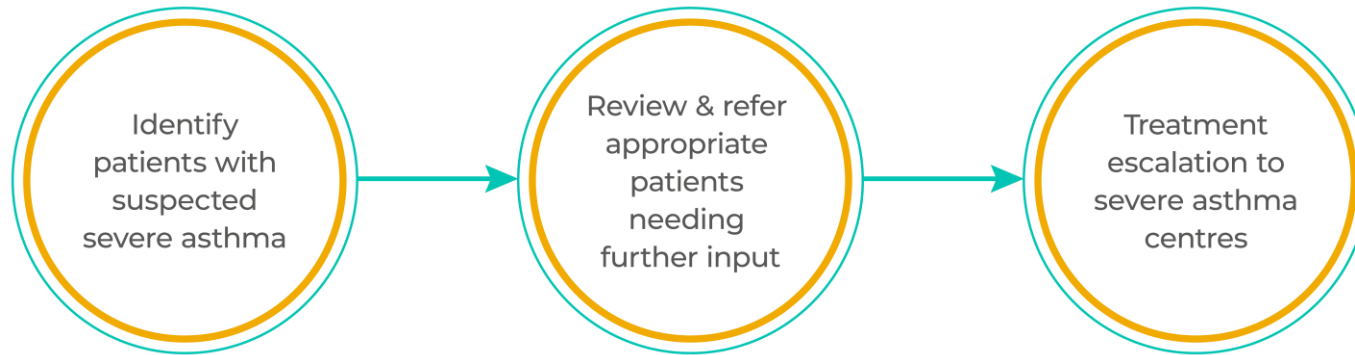


- Donated Goods and Services (DOGS), are goods or services which are donated by AstraZeneca intended to improve an NHS service (capability, capacity, speed or quality of care) to enhance patient care
- DOGS are and must always be non-promotional and must not be linked to promotion of a medicine.
- DOGS are available to NHS Healthcare Organisation's (HCO) throughout the UK

This service programme has been developed as a resource to support primary care; AstraZeneca do not support implementation of the tool for example review patients

PURPOSE OF SPECTRA

SPECTRA primary care clinical system resources have been developed to help **identify** adults with potential severe asthma, **optimise** and where required, **refer** them to severe asthma centres.



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SPECTRA

Primary Care Clinical System

Resources Hosted on:

www.suspected-severe-asthma.co.uk

SPECTRA: PRIMARY CARE CLINICAL SYSTEM RESOURCES



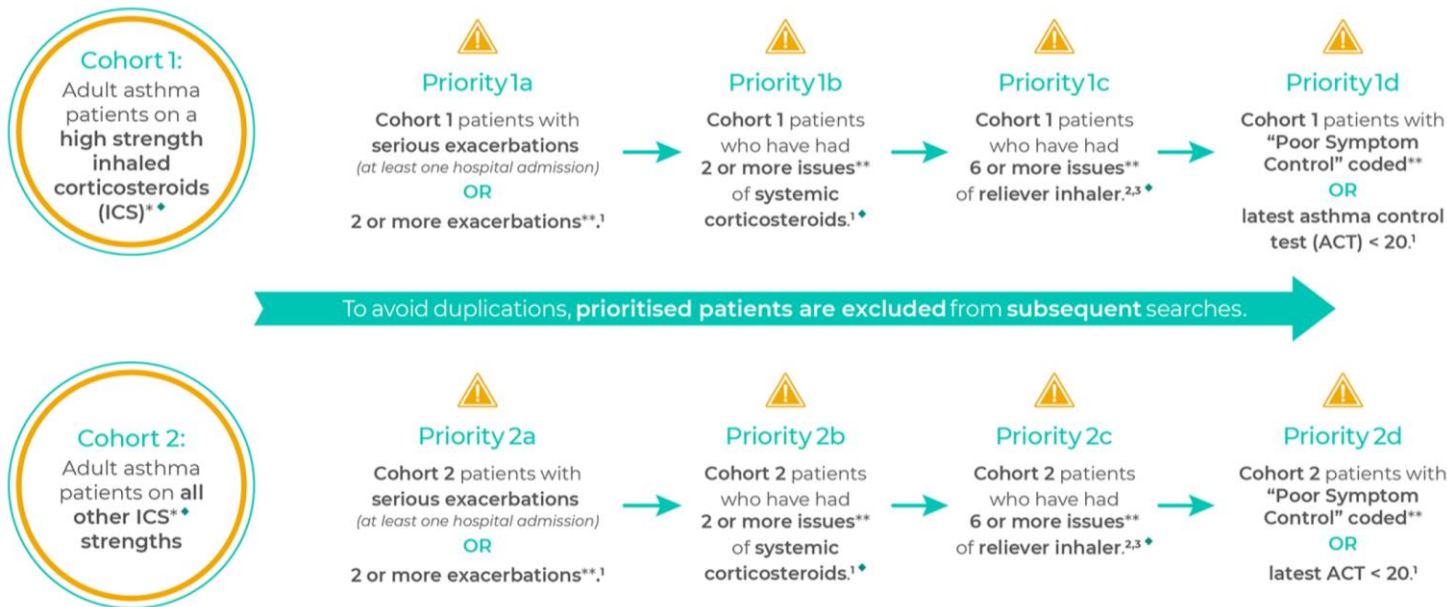
Downloadable searches
EMIS Web and SystemOne

- **No external software**, pre-created downloadable searches
- Searches once imported, **integrate within the clinical system**
- Searches visible & accessible on all clinicians desktops
- **Easy** to access **patient lists for review**
- **Searches** can be **re-run at any time**
- Searches deployed via Vision+ for Vision sites

SEARCH RATIONALE



The definition of severe asthma, which underpins the algorithm, is based on the ERS/ATS 2014 statement which has not been superseded. To prioritise patients for review and assessment, each cohort is categorised into priority groups, as shown below.



1. Chung et al. International ERS/ATS guidelines on definition, evaluation and treatment of severe asthma. Eur Respir J 2014; 43: 343–373 Available from: <https://erj.ersjournals.com/content/43/2/343> [Last Accessed: November 2021]

2. Bloom, C.I., Cabrera, C., Arnetorp, S. et al. Asthma-Related Health Outcomes Associated with Short-Acting Beta-2 Agonist Inhaler Use: An Observational UK Study as Part of the SABINA Global Program. Adv Ther 37 2020, 4190–4208. Available from: <https://doi.org/10.1007/s12325-020-01444-5> [Last Accessed: November 2021]

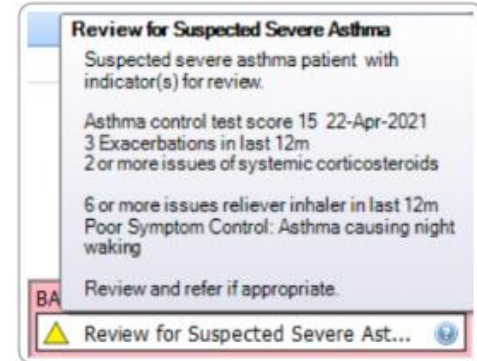
3. Crowther L, Pearson M, Faruqi S, Xu Y, Morris T, Crooks M. "The Sentinel Project: experience-based co-design of an implementation-ready intervention to improve adult asthma care in primary care". 10th IPCRG World Conference, May 2021.

SPECTRA: PRIMARY CARE CLINICAL SYSTEM RESOURCES



ALERTS: appear to prompt a review of the patient record for a suspected severe asthma patient (same rationale as searches)

Example Alert : EMIS Web



- **EMIS Web:** downloadable and importable
- **SystemOne:** instructions guide available on creating the alert
- **Vision:** deployed through Vision+

SPECTRA: PRIMARY CARE CLINICAL SYSTEM RESOURCES



Referral
Extract
Template

**Downloadable file for EMIS Web,
SystemOne and Vision**

Developed in consultation with the AAC

Coded file that pulls through key data and medication in one document for onward referral

Can be used to conduct a review of the patient record

Can be edited, updated and saved into the patient record

REFERRAL EXTRACT TEMPLATE

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Uncontrolled Asthma Referral Form

This referral form remains entirely confidential. No information whatsoever is shared with AstraZeneca.

Please note only coded data will be pulled through, please add any missing information via free text

Reason for Referral (Please add relevant free text)

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Date	
Patient Name	
DOB	
NHS No	
Telephone Number (Mobile)	
Telephone Number (Home)	
Address	
Email address	
Ethnic Group	
Main Spoken Language	

Diagnosis

Description in Patient Record	Date of Entry
Asthma Diagnosis	
Last Asthma Review	
COPD	
Eczema	
Hay Fever	
Chronic Rhinosinusitis	
Nasal Polyps	
Gastro-oesophageal reflux disease (GORD)	
Allergies	
Severe Asthma	
Anxiety/Depression	

Other Diagnosis

Description in Patient Record	Date of Entry
Diabetes	
CHD	

Date of Prep: November 2021

Job Code: GB-32331

REFERRAL EXTRACT TEMPLATE



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Heart Failure	
Hypertension	
Atrial Fibrillation	
Stroke/TIA	
PAD	
CKD	
Obesity	

Exacerbations/Symptom Control

Hospital Admission for Asthma	
Number of Asthma Exacerbations (last 12m)	
Inhaler (s) technique checked	

Current Acute & Repeat Medication

(Patient Medication from the last 12 months would be merged here)

Enter information below from Clinical System findings (over the past 12 months)

We need to understand not only the patient's current prescription, but how these medicines have been used. This is particularly important for systemic and inhaled corticosteroids. For the last year, please complete the table below:

Number of SABA inhaler*				
Number of ICS inhaler*				
Number of ICS/LABA inhaler*				
Number of Systemic Corticosteroid				
Maintenance oral steroid (mOCS)?	Y		N	
mOCS dose				
mOCS duration (approx.)				

*SABA – Short Acting Beta Agonist; ICS – Inhaled Corticosteroid; ICS/LABA – Inhaled Corticosteroid/Long Acting Beta Agonist

Patient Biometrics

Smoking Status	
Pack Year History	
Electronic Cigarettes/Vaping	
O/E Height	
O/E Weight	
BMI	
Chest X-Ray	

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Lung Function Tests

	Last 3		
Fractionated exhaled Nitric Oxide (FeNO)			
Forced Expiratory Volume FEV ₁ (L)			
Percent Predicted FEV ₁ (%)			
Forced Vital Capacity, FVC (L)			
Percentage of predicted forced vital capacity (%)			
FEV ₁ /FVC			
Peak Expiratory Flow Rate PEER (L/min)			
Best Peak Expiratory Flow Rate (L/min)			

Blood Tests

	Last 3		
Eosinophils % Count			
Eosinophils Count			
Last Other Eosinophils Entry			
Enter the highest recorded eosinophil count			

SPECTRA: REPORTING



Powerful reporting to measure the **impact** of the **review and referral** process across healthcare organisations

Downloadable baseline & follow-up PDF reports

- Practice, PCN/Cluster, CCG/HSCP/UHB

Dashboard Reporting across:

- PCNs / Clusters
- CCGs / HSCPs / UHBs
- ICS
- AHSNs
- SACs



SPECTRA

Reporting

SPECTRA – DATA PROCESSING

SPECTRA involves no processing of patients' identifiable data

The number of patients (counts) are returned for each search run on clinical systems:

Name	Count
01) Adult patients with Asthma on a high strength ICS in the last 12m (no referral in last 12m and no Asthma Biologic Rx) Cohort 1	109
01a) Cohort 1 patients with "serious exacerbations" (1 hospital admission or 2 exacerbations) last 12m	6
01b) Cohort 1 patients with 2 or more issues of systemic corticosteroids in last 12m	13
01c) Cohort 1 patients who have had 6 or more issues of reliever inhalers in last 12m	23
01d) Cohort 1 patients with poor symptom control or latest ACT <20 last 12m	19
02) Adult patients with Asthma on all other ICS strengths (no referral in last 12m and no Asthma Biologic Rx) Cohort 2	376
02a) Cohort 2 patients with "serious exacerbations" (1 hospital admission or 2 exacerbations) last 12m	7
02b) Cohort 2 patients who have had 2 or more issues of systemic corticosteroid in last 12m	16
02c) Cohort 2 patients who have had 6 or more issues of reliever inhaler in last 12m	63
02d) Cohort 2 patients with poor symptom control or latest ACT <20 last 12m	43
03) Cohort 1 patients with no Asthma Control Test (ACT) in last 12m	19
04) Cohort 2 patients with no Asthma Control Test (ACT) in last 12m	67
05) Cohort 1 or 2 Asthma patients who have been reviewed and assessed for Severe Asthma	4
06) Asthma patients with Referral for Asthma coded	67
07) Current Asthma biologic	0
08) Asthma Register	730
09) Severe Asthma Coded	0
10) Practice List Size	10762

Only files in the above format are uploaded to generate reports

HCO's create reports by uploading the search file within www.suspected-severe-asthma.co.uk

Creating your SPECTRA practice baseline and follow-up reports

In order to create the SPECTRA practice reports, the searches must first be run on the practice's clinical system and the search results saved, either as a CSV (Comma Separated Values) file, from **SystemOne**, or RTF (Rich Text Format) file, from **EMIS Web**, and uploaded using the form below.

Please refer to the instruction guides below to create practice reports & access corresponding patients within the clinical system.

EMIS Web: Creating a Data File SPECTRA Practice Report & Accessing Patients


SystemOne: Creating a Data File SPECTRA Practice Report & Accessing Patients

Search results uploader

STEP 1: Select a practice from the dropdown.
If you have been assigned a single practice, it will be pre-selected.

➔

STEP 2: Navigate to where the practice's search results have been saved, then select the CSV (*SystemOne*) or RTF (*EMIS Web*) file and click "Open".

➔  No file chosen

STEP 3: Once practice and file have been selected, click the button to upload the search results.*

➔

* The "Upload CSV / RTF File" button will remain grey and inactive until both the practice and the file to upload have been selected

- Patient numbers between 1 and 7 are suppressed, aligned to NHS Digital's approach to suppression of small patient counts
- AstraZeneca do not have any access to any individual practice level data

PRACTICE REPORTS



‘Search Numbers’ within the report correlate to the searches within the clinical system (eg.1d)

Cohort 1 : Adult asthma patients on high strength ICS*

To access patients for review, locate these searches within the “SPECTRA: Suspected Adult Severe Asthma” folder in your clinical system reporting module.

Baseline
98
Cohort 1:
Adult asthma patients on a high strength ICS*
Search 1

Search Number	Search Title	Patient Numbers
1a	Cohort 1 patients with serious exacerbations (at least one hospital admission) OR 2 or more exacerbations**1	11
1b	Cohort 1 patients who have had 2 or more issues** of systemic corticosteroids1*	13
1c	Cohort 1 patients who have had 6 or more issues** of reliever inhaler1,2*	31
1d	Cohort 1 patients with “Poor Symptom Control” coded** OR Latest ACT < 201	11

Patients assessed for severe asthma should be coded for “Severe Asthma Exacerbation Risk Assessment”, 38B8 (Read 2) or 966031000000101 (SNOMED)
If a patient is referred following review, please code for “Referral to Asthma Clinic”, 8HTT (Read 2) or 415265005 (SNOMED)

* See Appendix for full list of drugs ** No referral in the last 12 months or current biologic ** In the last 12 months

1. Chung et al. International ERS/ATS guidelines on definition, evaluation and treatment of severe asthma. Eur Respir J 2014; 43: 343–373. Available from: <https://erj.erspub.com/content/43/2/343> [last accessed: November 2021]
2. Bloom, C. I., Cabrera, C., Arnsperg, S. et al. Asthma-Related Health Outcomes Associated with Short-Acting Beta-2 Agonist Inhaler Use: An Observational UK Study as Part of the SABINA Global Program. Adv Ther 31 (2020), 4169–4201. Available from: <https://doi.org/10.1007/s12325-020-01644-5> [last accessed: November 2021]
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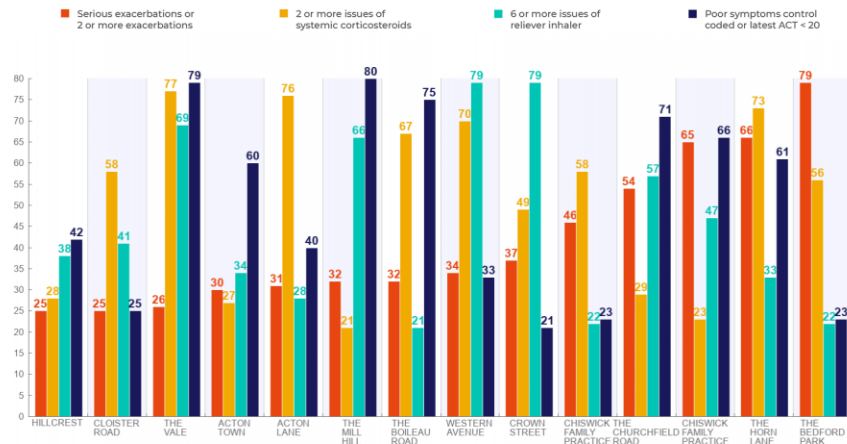
PCN & CLUSTER REPORTS



Benchmarking across participating practices

Reporting across the HCO and ability to focus into individual practice needs

Cohort 2 : Number of patients with indicators of uncontrolled asthma by practice



Patient numbers between 1 and 7 are suppressed, aligned to NHS Digital's approach to suppression of small patient counts.*

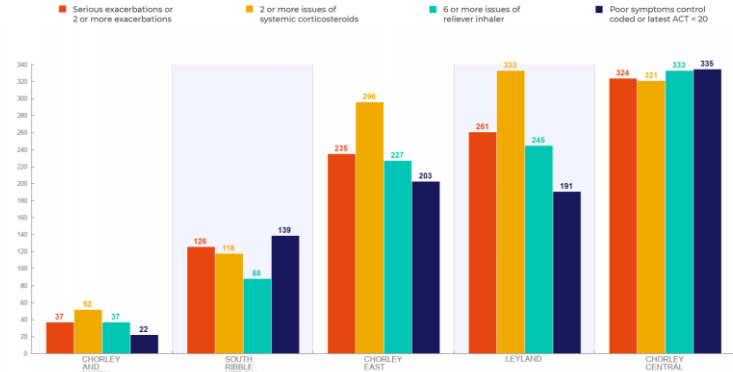
* <https://digital.nhs.uk/data-and-information/information-standards/information-standards-and-data-collections-including-extractors/publications-and-notifications/standards-and-collections/isb1523-anonymisation-standard-for-publishing-health-and-social-care-data> [Last Accessed: November 2021]

CCG, HSCP & UHB REPORT



Benchmarking across participating PCN/Clusters

Cohort 2 : Number of patients with indicators of uncontrolled asthma by PCN



Patient numbers between 1 and 7 are suppressed, aligned to NHS Digital's approach to suppression of small patient counts.*

* <https://digital.nhs.uk/data-and-information/information-standards/information-standards-and-data-collections-including-extractions/publications-and-notifications/standards-and-collections/ib1523-anonymisation-standard-for-publishing-health-and-social-care-data> [Last Accessed: August 2021]

ACCESSING REPORTS

- **PCNs/Clusters** - downloadable practice and PCN/cluster reports
- **CCG/HSCP/UHBs** – downloadable CCG, HSCP or UHB reports
- **ICS** - downloadable CCG reports
- **AHSNs** - downloadable CCG reports

- **Severe Asthma Centres**
- downloadable CCG/HSCP/UHB reports
- Quantifies potential number of referrals from aligned HCOs

Example Table View for a PCN

PCN Activity Table		
PCN	Data Upload Dates	Download Report
DEMO ONE PCN Out of the 8 practices in the PCN, 5 have uploaded initial search results and 3 have uploaded follow-up search results	Latest Upload: Mon 5th Jul 2021	DOWNLOAD PCN FOLLOW-UP REPORT
	Initial Upload: Fri 22nd Jan 2021	DOWNLOAD PCN BASELINE REPORT
Practice Activity Table		
Practice Address	Data Upload Dates	Download Report
Demo Surgery (C34567) Demo Surgery Demo Place, Demoville AB12 3CD (NORTH DEMO PCN)	Latest Upload: Sun 20th Jun 2021	DOWNLOAD PRACTICE FOLLOW-UP REPORT
	Initial Upload: Sat 30th Jan 2021	
Demo Practice (C34567) The Demo Health Centre Demo Road, Demoville BC23 3DE (SOUTH DEMO PCN)	Latest Upload: Fri 9th Apr 2021	DOWNLOAD PRACTICE FOLLOW-UP REPORT
	Initial Upload: Fri 22nd Jan 2021	

HCO DASHBOARD OVERVIEW – TRACKING IMPLEMENTATION



Example shows collated and summarised data across the assigned HCOs

Parameter	All Active Practices	Practices with Follow-up Search Results	
	Initial Data <i>From 3rd Jan '21 to 21st Sep '21</i>	Initial Data <i>From 3rd Jan '21 to 17th Apr '21</i>	Latest Data <i>From 7th Jan '21 to 30th Sep '21</i>
Number of Practices	38	24	24
Patient Population	387,249	236,790	290,476
Potential Severe Adult Asthma Hidden Across the HCO	158	80	106
Patients with Severe Asthma Coded	371	261	989
Cohort 1: Patients with Asthma on a High Strength ICS*	10,331	6,588	8,988
Cohort 1: Total Number of Patients to Review	7,256	4,625	7,795
Cohort 1a: Cohort 1 patients with serious exacerbations (at least one hospital admission) OR 2 or more exacerbations**1	1,795	1,191	1,909
Cohort 1b: Cohort 1 patients who have had 2 or more issues** of systemic corticosteroids1*	1,775	1,230	2,018
Cohort 1c: Cohort 1 patients who have had 6 or more issues** of reliever inhaler2,3*	1,859	1,106	1,995
Cohort 1d: Cohort 1 patients with "Poor Symptom Control" coded** OR Latest ACT < 201	1,827	1,098	1,873

Cohort 2 : Adult Asthma Patients on All Other Strengths of ICS*	9,152	5,976	7,740
Cohort 2 : Total Number of Patients to Review	7,035	4,437	7,877
Cohort 2a : Cohort 2 patients with serious exacerbations (at least one hospital admission) OR 2 or more exacerbations**1	1,636	1,038	2,111
Cohort 2b : Cohort 2 patients who have had 2 or more issues** of systemic corticosteroids1*	1,953	1,336	2,078
Cohort 2c : Cohort 2 patients who have had 6 or more issues** of reliever inhaler2,3*	1,582	951	1,838
Cohort 2d : Cohort 2 patients with "Poor Symptom Control" coded** OR Latest ACT < 201	1,864	1,112	1,850

* No referral in the last 12 months and no biologic

Impact of the Review and Referral Process	Number of Patients
Patients reviewed and assessed since baseline	780
Patients referred since baseline	779

USING THE REPORTING



Reporting can be used in a number of ways

- **Pre-planning** to create a baseline report that informs of
 - Capacity and resource needs
 - In which practices or areas to start the project
 - Benchmarking
- **Live projects**
 - Progress tracking
 - Benchmarking
 - Sharing of best practice
 - Case-studies

ACCESSING THE RIGHT LEVEL OF REPORTING



Registration Form at <https://suspected-severe-asthma.co.uk/hcp-registration/>
determines level of access and reporting views for the HCO

HCO Location & Job Role

Your job role will define the access to relevant SPECTRA primary care clinical system resources and reporting views; for example, as a Pharmacist working across a Primary Care Network or Cluster you may be interested in viewing reporting across all of your practices.

Now select your location and job role.

Country *

I work at a: *

Job role: *

CCG *

Would you like to view reports for more CCGs? * Yes No

Additional CCGs *

AHSNs, ICS and SACs must request relevant CCGs for data views

ACCESSING SPECTRA



To access SPECTRA clinical system resources and reporting for your Healthcare Organisation (HCO) register on www.suspected-severe-asthma.co.uk (registrants need to be authorised on behalf of HCO)

For further information email support@suspected-severe-asthma.co.uk or call the SPECTRA Support Team on 01332 546 909

This is a Donated Service Programme funded by AstraZeneca & developed in collaboration with NHS England & Improvement (NHSE&I) and the Accelerated Access Collaborative (AAC) delivered by Oberoi Consulting