

The ACE Programme



Multidisciplinary Diagnostic Centres (Wave 2)

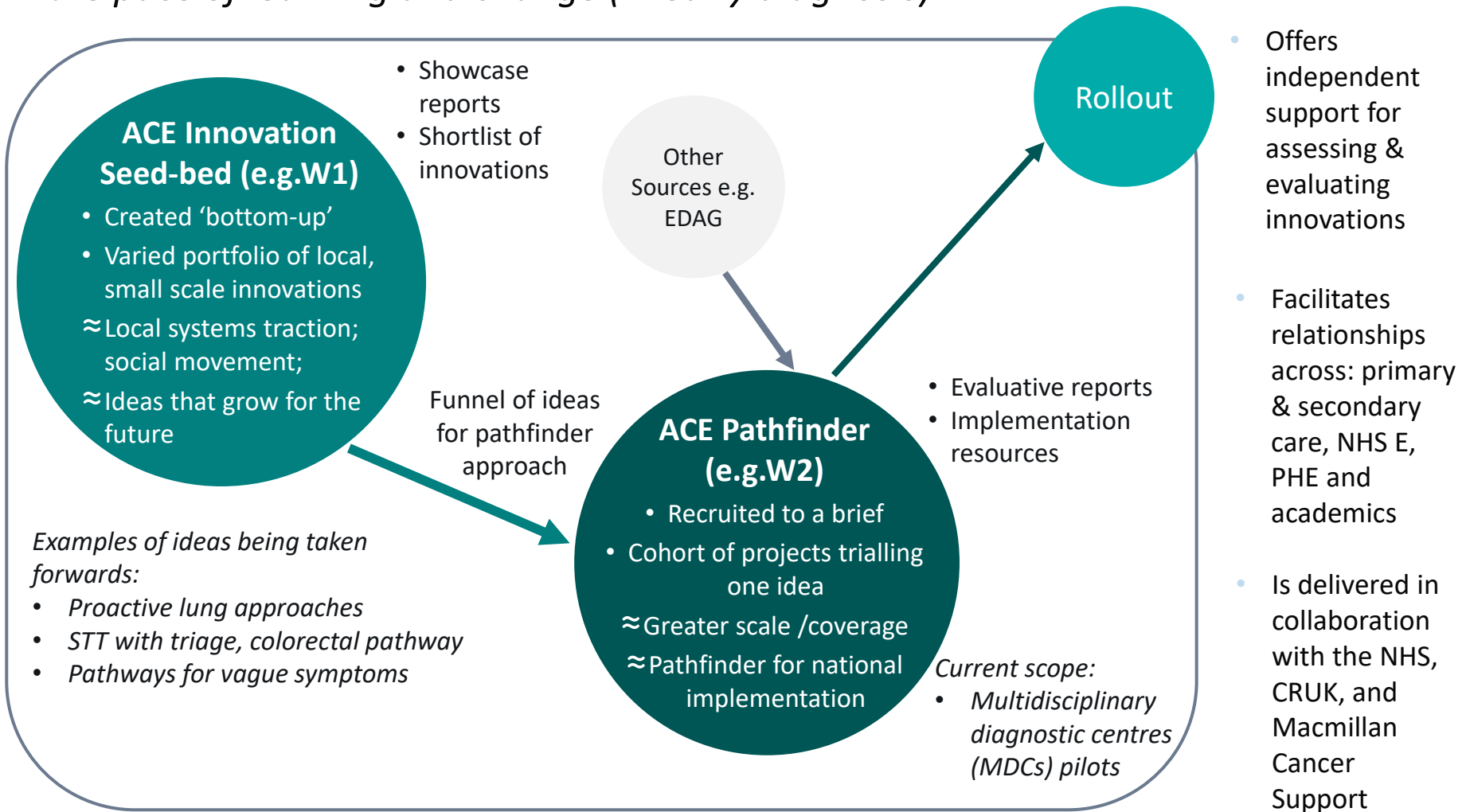
Final evaluation findings

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July 2019

Why ACE? Supporting an innovation cycle

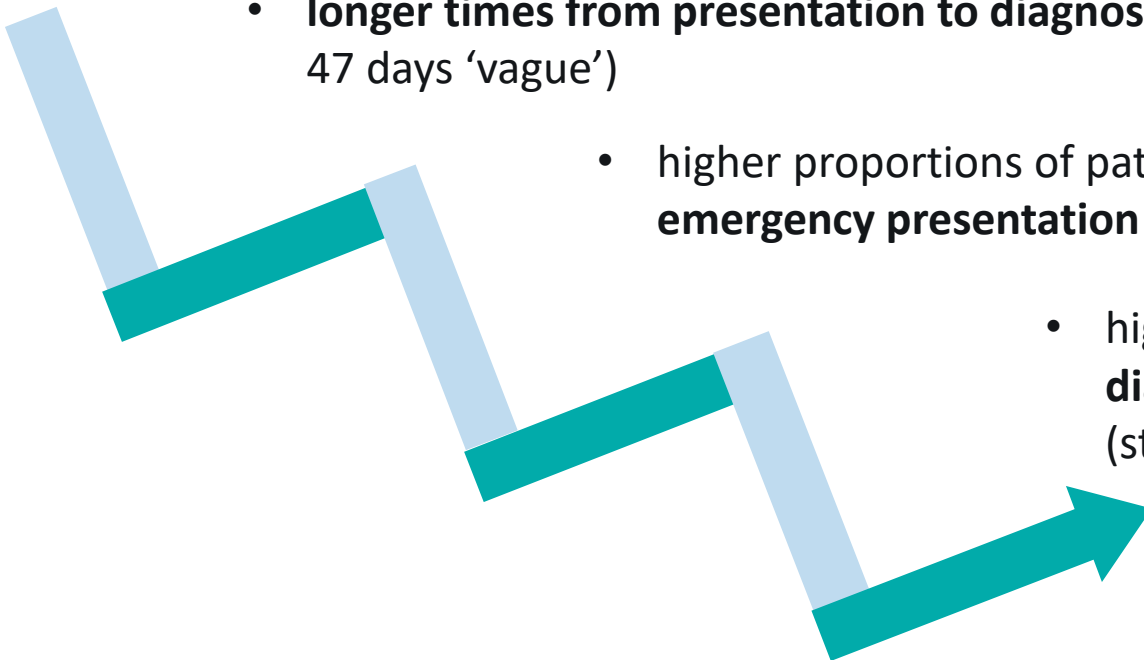
The objective is to evaluate a range of service innovations so as to accelerate the pace of learning and change (in early diagnosis)



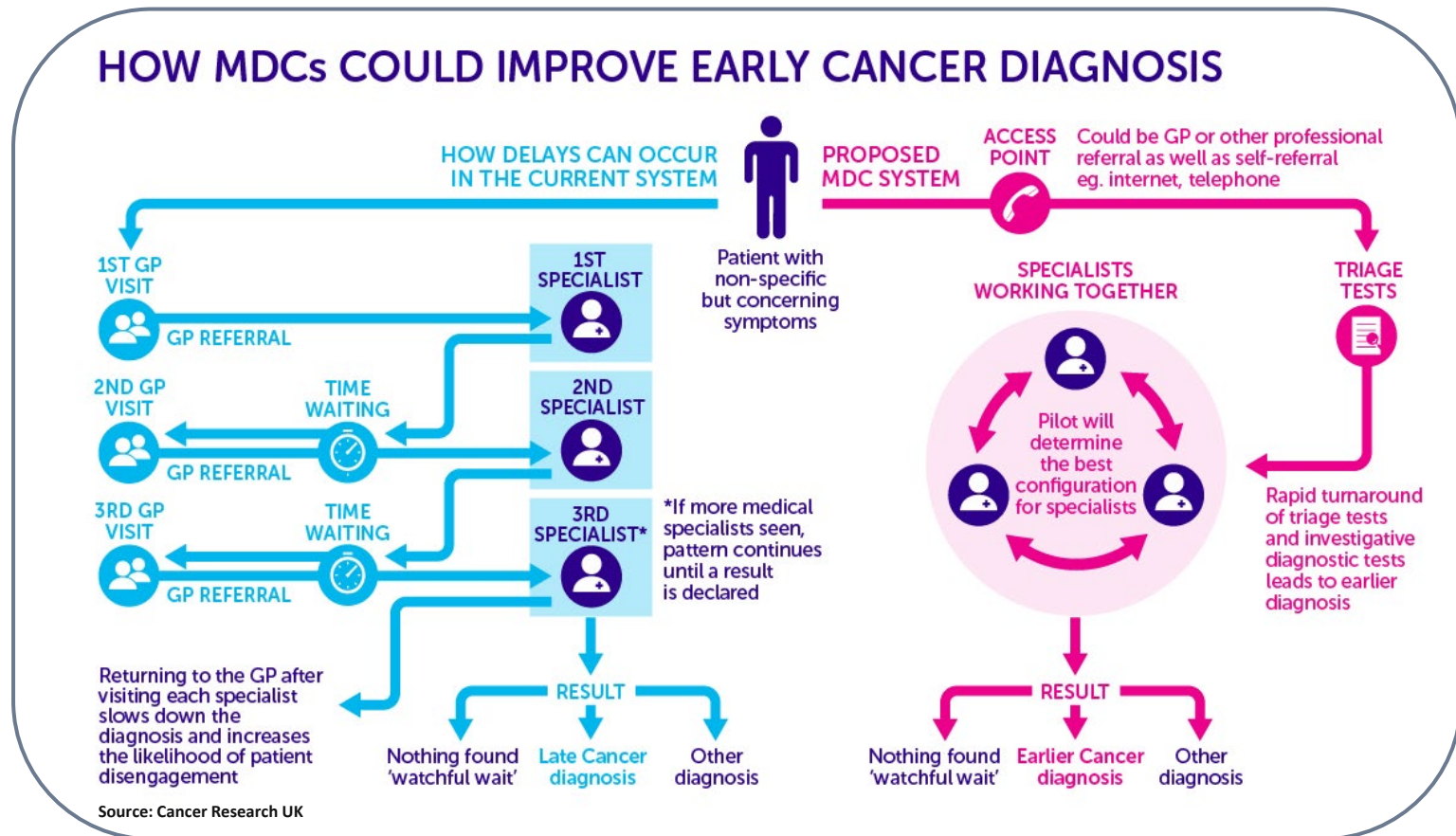
The need: patients with non-specific symptoms often experience poorer cancer outcomes

ACE analysis of National Cancer Diagnosis Audit (NCDA) data shows that, compared to those with 'alarm' symptoms, patients presenting with non-specific but concerning symptoms (NSCS or 'vague') had:

- higher proportions of patients having **3+ GP consultations** before referral (21% vs. 32% 'vague')
- **longer times from presentation to diagnosis** (median: 38 days vs. 47 days 'vague')
- higher proportions of patients **diagnosed via emergency presentation** (16% vs. 34% 'vague')
- higher proportions of patients **diagnosed at a late stage** (stage 4; 21% vs. 32% 'vague')

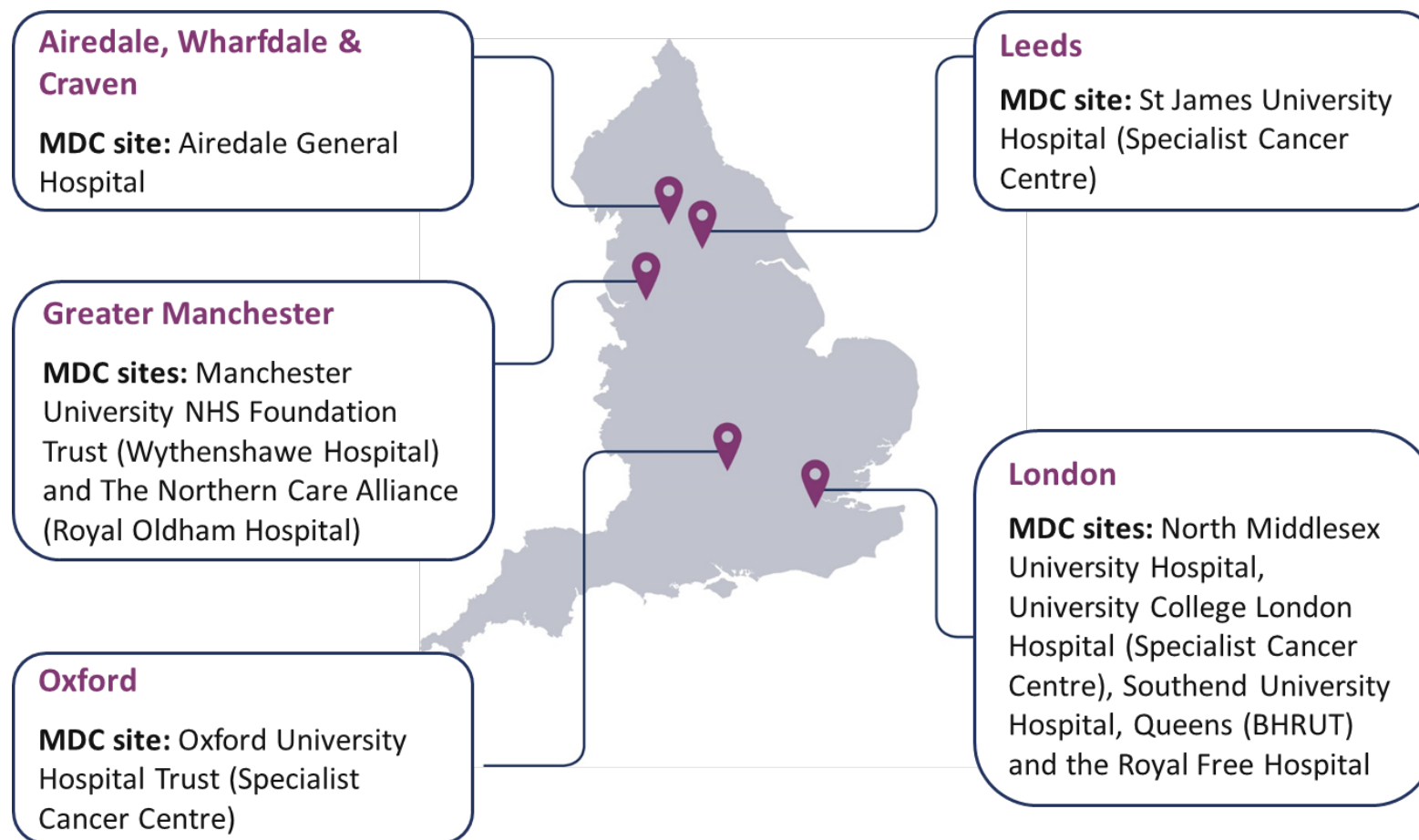


The theory: MDCs as a patient centred approach



- Providing rapid access to a range of diagnostic tests for patients with **non-specific symptoms**
- Achieving **earlier and faster detection** of cancers for this patient group
- **Improving patient and GP experience** for non-specific symptom referrals

10 MDC pilot sites across England



MDC results: patient characteristics

Covering the period up to **31st July 2018**, the ACE MDC evaluation reported the following information on patient characteristics:

Patients

- **2,961 patients** referred
- **69** years old (median)
- **17-97** years old (range)
- **56%** female

Health status

- **70%** with comorbidity
 - 43% mild;
 - 27% moderate or severe
- **40%** with some degree of physical restriction
 - 18% moderate or severe

Symptoms

- **66%** with weight loss
- **30%** with nausea / appetite loss
- **36%** with pain (abdominal & other)
- **36%** GP 'gut feel'

58% of patients presented with 2 or more symptoms*

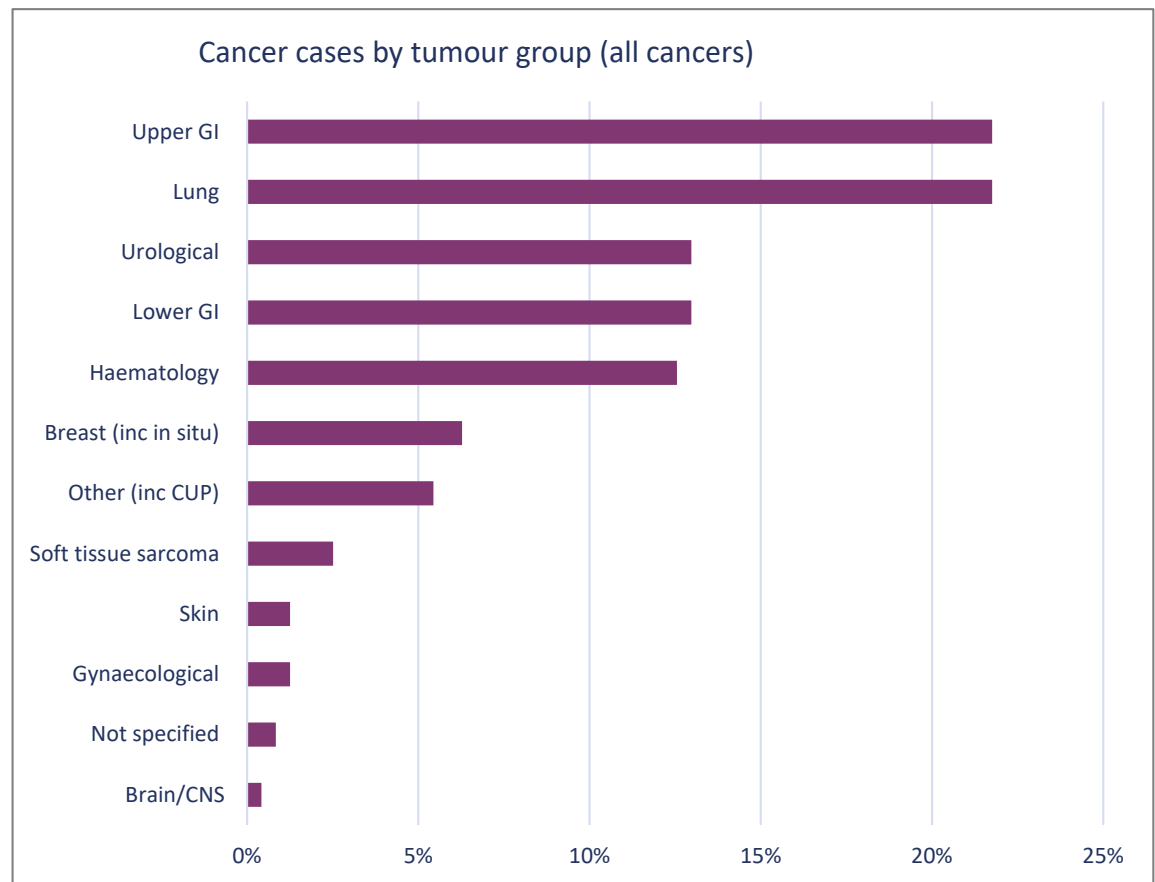
Statistical trend identified between **increasing number of symptoms and risk of cancer diagnosis**

**excl. GP 'gut feel'*

MDC results: cancer diagnoses

*Covering the period up to **31st July 2018**, the ACE MDC evaluation recorded a range of cancer conditions:*

- **239 cancers** diagnosed, 134 **(56%)** of which were **rare & less common** cancers
- **8% cancer conversion** rate (range: 4-11%)
- **26% of cases diagnosed at stage I/II** (of 79% of cases with staging data)



MDC pathway activity (all cancers)

*Covering the period up to **31st July 2018**, and including all cancer cases, the ACE MDC evaluation recorded the following pathway activity:*

Interval times across the pathway – median time in days



GP referral to first seen: 8 (0-84) N:2,743



GP referral to cancer diagnosis (clinical): 19 (0-199) N:217



Any referral to treatment: 57 (6-269) N:142

MDC results: non-cancer diagnoses

*Covering the period up to **31st July 2018**, the ACE MDC evaluation recorded a range of non-cancer conditions:*

- **Over one third** patients diagnosed with non-cancer conditions, commonly associated with the following diseases:

Group description	Main diseases	%
Diseases of the digestive system	Diverticular disease, Gastritis, Hiatus Hernia , Gallstones, Non ulcer dyspepsia, Irritable Bowel Syndrome, Gastro-oesophageal reflux disease without oesophagitis, Barrett's oesophagus	39%
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	Lung nodule	12%
Diseases of the respiratory system	Bronchiectasis, Emphysema, Interstitial pulmonary disease	9%

A patient-centred approach

ACE MDC pathways can be considered to be patient-driven, not process-driven:

- All patients undergo an initial detailed clinical assessment & history-taking
- Diagnostic investigations are determined by individual patient assessment
- Patients are supported by CNS/Navigator **from point of referral** onwards
- MDC retains patient responsibility until a diagnosis is achieved or serious illness is discounted

○ The MDC Patient Experience Survey (2018) showed that:

- 85% of patients responded positively to the question 'Effectiveness of people working together to provide the best possible care for patients (61.2% CPES 2016)
- 81.1% reported that test results were explained in a way that could be understood (79.1% CPES 2016)

○ MDCs providing rapid diagnoses for patients within planned routes of care:

- 89% of patients felt the 'length of time it took for the tests to be done' was about right



MDC: rare & less common cancers – NCDA analyses

Over the remainder of 19/20, ACE will be reviewing MDC data with a focus on rare & less common cancers....

NCDA analyses

MDC update

Cancer52
disease profiles

- Analysis **to date focused on all cancer cases** with focus on 'vague' and 'obvious' cohorts.
- Data (2014 diagnoses) to be **analysed at tumour-specific level** to provide MDC proxy comparator for rare & less common cancers

Tumour-site	All cases	Vague	Obvious
Pancreas	408	257 (63%)	151 (37%)
Stomach	248	80 (32%)	168 (68%)
Kidney	414	114 (27%)	300 (73%)
NHL	536	147 (27%)	389 (73%)
Myeloma	184	78 (42%)	106 (58%)
Oesophagus	390	65 (17%)	325 (83%)
Ovary	313	162 (52%)	151 (48%)

MDC: rare & less common cancer profiles

Over the remainder of 19/20, ACE will be reviewing MDC data with a focus on rare & less common cancers....

NCDA analyses

MDC update

Cancer52
cancer profiles



- Templates submitted from thirteen Cancer52 organisations, covering:
 - Presenting symptoms & pre-cursor conditions;
 - Diagnostic tests & routes to diagnosis;
 - Staging profiles & challenges to achieving early diagnosis
- Information to be collated and used to inform evaluation and analysis of NCDA and MDC data
- Evidence to inform report on MDC rare & less common cancers in autumn 19, with involvement from ACE, MDC pilots and Cancer52 organisations

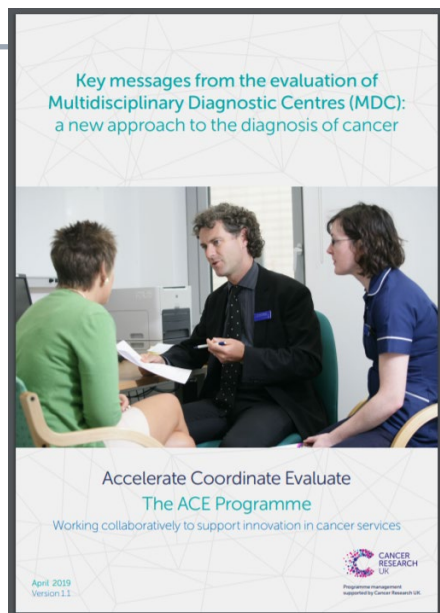
In summary, results indicate that:

- MDCs have value as a **symptom-based pathway** for addressing the need of complex, unwell patients
 - 8% cancer conversion rate at programme level
 - Patients are positive about levels of support, information and collaborative working in MDC
- MDCs are well configured to **diagnose hard to detect cancers**:
 - Over half of cancers diagnosed considered to be rare and less common cancers
 - Majority of diagnosed cancers associated with broad symptoms with varying or low predictive values
- MDCs are providing a **broad and rapid diagnostic approach**
 - Over one third of patients diagnosed with non-cancer conditions
 - Median time of 19 days from referral to clinical diagnosis of cancer

Looking forwards

ACE Programme

- A series of papers in plan including: early results; diagnostic tests; less common cancers; non-cancer conditions
- Further news & information shared on the ACE website www.cruk.org/ACE
- Sign-up for alerts via a dedicated newsletter – contact ACEteam@cruk.org.uk



NHS England

- RDC Implementation Specification
- 1 RDC per Cancer Alliance in 19/20; starting with non-specific symptom cohort

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GEORGE, 68
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I was recently diagnosed with Lymphoma,

Manchester MDC