Queen Mary University of London

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# Emergency Care Data Set

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SNOMED CT in the NHS

Policy paper

## Personalised health and care 2020: a framework for action

Published 13 November 2014

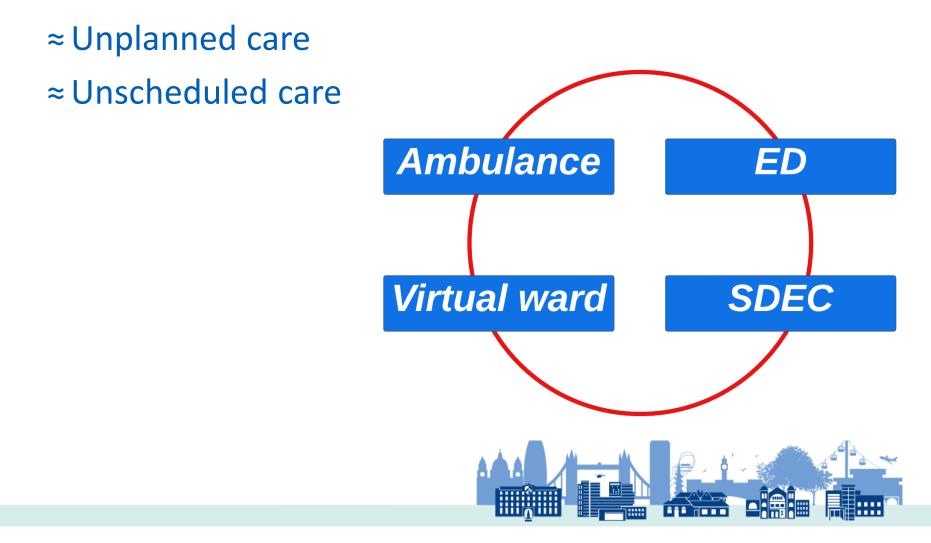
- Adopt a single clinical terminology SNOMED CT
- All primary care systems adopt SNOMED CT by 2016
- The entire health system should adopt SNOMED CT by 2020





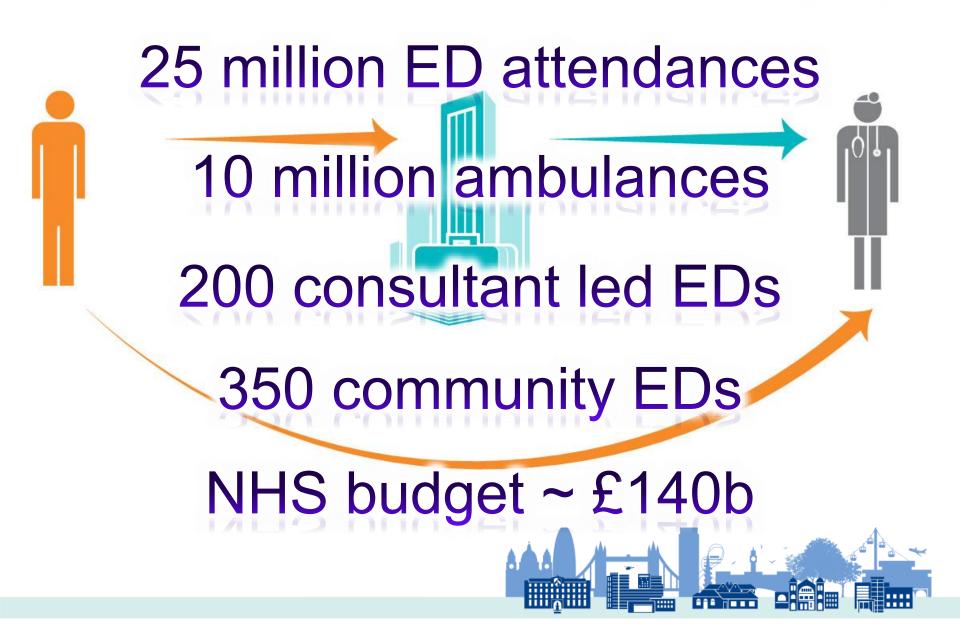


# Urgent & Emergency Care (UEC)



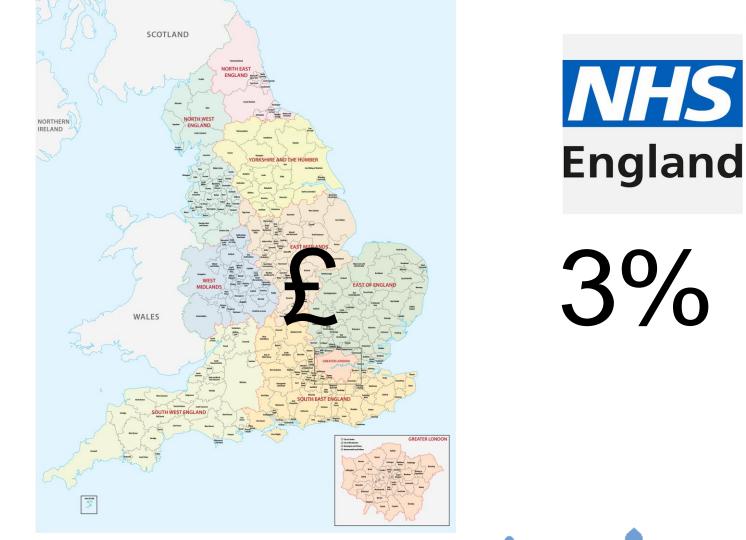




















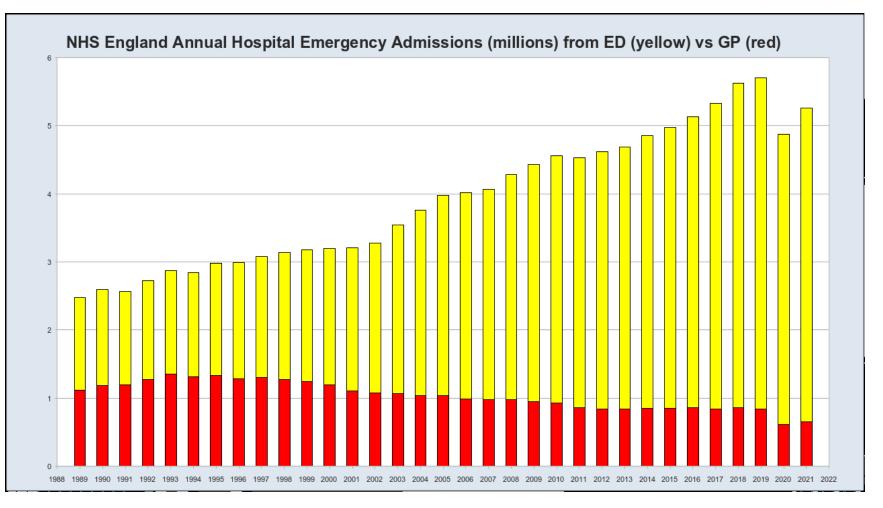


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## ECDS background

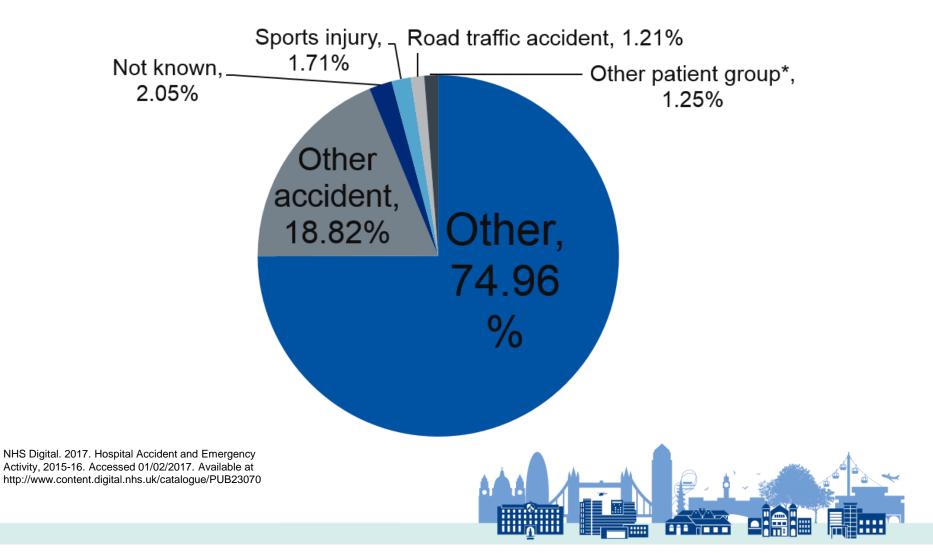
- Yearly increase in numbers and winter disaster
- 'Flying Blind' Health Select Committee, 2013







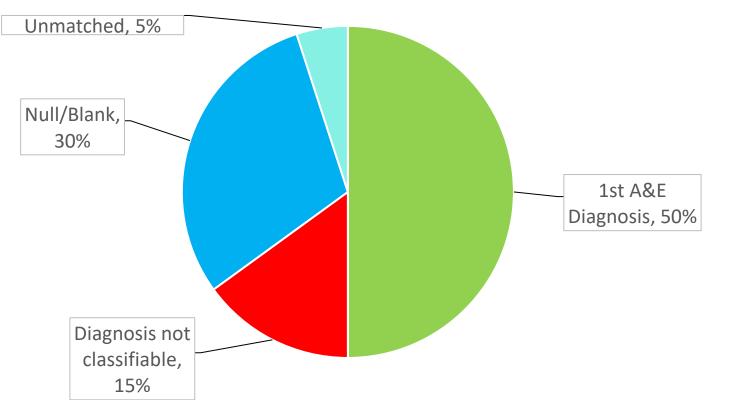
## Reason for attending







Diagnosis



NHS Digital. 2017. Hospital Accident and Emergency Activity, 2015-16. Accessed 01/02/2017. Available at http://www.content.digital.nhs.uk/catalogue/PUB23070





## **Clinical safety**

#### Dear Dr

Your patient attended the Emergency Department on: 19/Oct/2017 20:28:00

Discharge Method: Usual Place of Residence Outcome: Discharged no Follow Up Trust/Ward/Clinic: Source of Referral: Self Referral Incident Occurred At: Home Name: Undifferentiated illness: GOK - God only knows (finding) - GOK - God only knows - Undifferentiated illness: GOK - God only knows - Undifferentiated illness: GOK - God only knows (finding) Hide descriptions. Concept ID: 301327002 Read Codes: Xa7wA XaEW6 ICD-10 Codes: No Cross-Mapping.

#### Diagnosis: GOK - God only knows

Clinician Comments: Attended A&E with mother for abdominal pain, examination unremarkable. discharged home with safety netting

### Rape (event)

SCTID: 248111006

248111006 | Rape (event) |

Rape - assault

Rape

Rape (event)

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call 111 **NHSGP** 

In an Emergency:

999



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# **Design principles**

- Comprehensive
- Exclusive
- No symptoms
- No vague terms
- Normalised (redcar/bluecar/pinkcar vs car that is red/blue/pink)







**ECDS** structure

- 22 data groups
- 12 of which contain SNOMED CT coded fields
- 123 fields
- 29 of which are SNOMED CT coded







# **Patient Characteristics**

- Accommodation status (10)
- Preferred spoken language (210)
- Need interpreter? (3)
- Interpreter language (206)











## **Attendance Activity Characteristics**

- Emergency care arrival mode (9)
- Emergency care attendance source (33)
- Emergency care acuity (5)
- Emergency care chief complaint (142)









## Queen Mary **Barts Health** Coded assessments, observations and findings

Chart 1: The NEWS scoring system

- Coded assessment tool type (9)
- Coded observation (6)

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Coded finding (11)

ţ	1	VERY Fit	People who are robust, active, energetic and motivated. They tend to exercise regularly and are among the fittest for their age.
1	2	FIT	People who have <b>no active disease</b> <b>symptoms</b> but are less fit than category 1. Often, they exercise or are very <b>active</b> <b>occasionally</b> , e.g., seasonally.
t	3	MANAGING Well	People whose medical problems are well controlled, even if occasionally symptomatic, but often are not regularly active beyond routine walking.
	4	LIVING With Very Mild Frailty	Previously "vulnerable," this category marks early transition from complete independence. While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up" and/or being tired during the day.
A	5	LIVING WITH Mild Frailty	People who often have more evident slowing, and need help with high order instrumental activities of daily living (finances, transportation, heavy housework). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation, medications and begins to restrict light housework.

LIVING People who need help with all outside activities and with keeping house. WITH Inside, they often have problems with MODERATE stairs and need help with bathing and FRAILTY might need minimal assistance (cuing, standby) with dressing.

LIVING Completely dependent for personal care, from whatever cause (physical or WITH cognitive). Even so, they seem stable SEVERE and not at high risk of dying (within ~6 FRAILTY months).

Completely dependent for personal care LIVING WITH VERY and approaching end of life. Typically, they could not recover even from a SEVERE minor illness. FRAILTY

TERMINALLY Approaching the end of life. This category applies to people with a life ILL expectancy <6 months, who are not otherwise living with severe frailty. (Many terminally ill people can still exercise until very close to death.)

#### SCORING FRAILTY IN PEOPLE WITH DEMENTIA

The degree of frailty generally In moderate dementia, recent memory is very impaired, even though they seemingly corresponds to the degree of dementia. Common symptoms in mild dementia include forgetting the details of a recent event, though still remembering the event itself. repeating the same question/story and social withdrawal

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can remember their past life events well. They can do personal care with prompting In severe dementia, they cannot do personal care without help. In very severe dementia they are often bedfast. Many are virtually mute.

Clinical Frailty Scale ©2005-2020 Rockwood Version 2.0 (EN). All rights reserved. For permission www.geriatricmedicineresearch.ca Rockwood K et al. A global clinical measure of fit and frailty in elderly people. CMAJ 2005;173:489-495

Physiological parameter	3	2	1	Score 0	1	2	3
Respiration rate (per minute)	≤8		9–11	12–20		21–24	≥25
SpO <sub>2</sub> Scale 1 (%)	≤91	92–93	94–95	≥96			
SpO <sub>2</sub> Scale 2 (%)	≤83	84–85	86–87	88–92 ≥93 on air	93–94 on oxygen	95–96 on oxygen	≥97 on oxygen
Air or oxygen?		Oxygen		Air			
Systolic blood pressure (mmHg)	≤90	91–100	101–110	111–219			≥220
Pulse (per minute)	≤40		41–50	51–90	91–110	111–130	≥131
Consciousness				Alert			CVPU
Temperature (°C)	≤35.0		35.1–36.0	36.1–38.0	38.1–39.0	≥39.1	

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# Injury characteristics

• Emergency care place of injury (51)



- Emergency care injury intent (8)
- Emergency care injury activity status (5)
- Emergency care injury activity type (147)
- Emergency care injury mechanism (46)
- Emergency care injury alcohol or drug involvement (32)

NHS England: Violence Reduction priority







## **Patient Clinical History**

• Comorbidity (66)











# **Emergency Care Diagnosis**

- Emergency care diagnosis (1185)
- Emergency care diagnosis qualifier (2)







## **Emergency Care Investigations**

• Emergency care clinical investigation (49)











# **Emergency Care Treatments**

• Emergency care procedure (78)













# **Referrals to Other Services**

• Referred to service (86)







# Discharge from Emergency Care

- Emergency care discharge status (17)
- Safeguarding concern (46)
- Emergency care discharge destination (17)
- Emergency care discharge follow up (11)
- Emergency care discharge information given (1)





## Queen Mary Research And Disease Outbreak Notification

• Disease outbreak notification (unlimited)





call 111 **NHSGP** 

In an Emergency:

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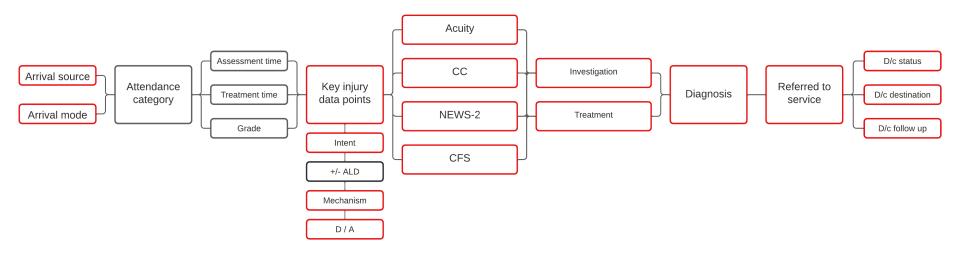






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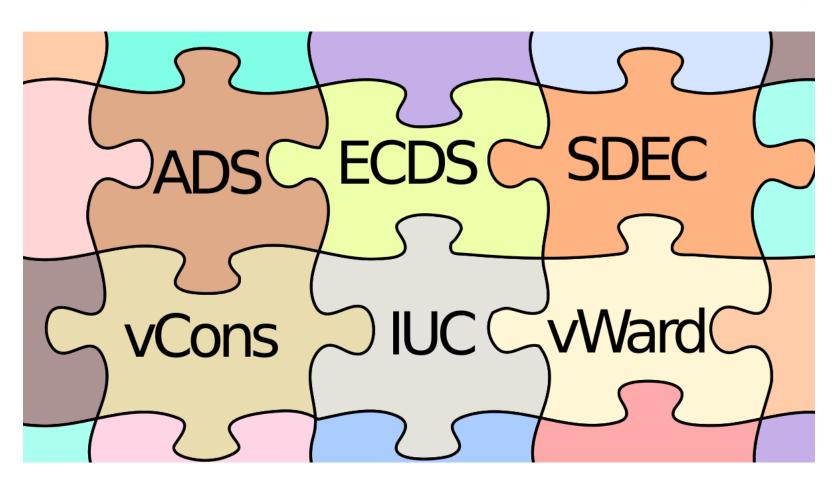








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	Arrival source	Chief complaint	Acuity	Diagnosis	Discharge
Ambulance					
ED					
SDEC					
Virtual Ward					







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**ECDS-max** 







Diagnosis lists considered

ECDS	~ 1,200
KP	~ 23,500
TRUD	~ 106,000
SCT UK	~ 326,000







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## Intention

Create list of unique diagnoses which each point to or are children of a unique ECDS diagnosis







## Transitive closure table

- Store hierarchical graph in flat table
- Allows an antecedent to be associated (using |Is A|)
  - with a descendent
  - and include levels of descent



•					7		
Parents							
>	=	Ischemic heart disease (disorder)					
>	Myocardial disease (disorder)						
۶	≡	Myocardial necrosis (finding)					
>	≡	Necrosis of anatomical site (disorder)					
		<ul> <li>Myocardial infarction (disorder)</li> <li>SCTID: 22298006</li> <li>22298006   Myocardial infarction (disorder)  </li> <li>Myocardial infarction Infarction of heart Cardiac infarction Heart attack</li> <li>Myocardial infarction (disorder) Myocardial infarction (disorder)</li> </ul>	Associated morphology → Infarct Finding site → Myocardium structure	]			

#### Children (14)

Acute myocardial infarction (disorder) Ξ

MI - myocardial infarction

- Acute anteroapical myocardial infarction (disorder)
- Acute anteroseptal myocardial infarction (disorder)
  - Acute non-Q wave infarction anteroseptal (disorder)
  - Acute Q wave infarction anteroseptal (disorder)
  - Acute ST segment elevation myocardial infarction of anteroseptal wall (disorder) Ξ
- Acute atrial infarction (disorder)
- Acute myocardial infarction due to left coronary artery occlusion (disorder)
- Acute myocardial infarction due to right coronary artery occlusion (disorder)
- Acute myocardial infarction during procedure (disorder)
- Acute myocardial infarction of anterior wall (disorder)
- Acute myocardial infarction of anterolateral wall (disorder)

#### Parents

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- Ischemic heart disease (disorder)
- Myocardial disease (disorder)
- Myocardial necrosis (finding)
- Necrosis of anatomical site (disorder)

<ul> <li>Myocardial infarction (disorder)</li> <li>SCTID: 22298006</li> <li>22298006   Myocardial infarction (disorder)  </li> <li>Myocardial infarction</li> </ul>	Associated morpholo Finding site → Myoo			
Infarction of heart Cardiac infarction	Myocardial infarction (disorder)	Acute myocardial infarction (disorder)	1	
Heart attack Myocardial infarction (disorder) Myocardial infarct	Myocardial infarction (disorder)	Acute anteroseptal myocardial infarction (disorder)	2	
MI - myocardial infarction	Myocardial infarction (disorder)	Acute Q wave infarction - anteroseptal (disorder)	3	
Children (14)  Children (14)  Children (14)  Children (14)	Acute myocardial infarction (disorder)	Acute Q wave infarction - anteroseptal (disorder)	2	
Acute anteroapical myocardial infarction (disorder)     Acute anteroseptal myocardial infarction (disorder)				
<ul> <li>Acute non-Q wave infarction - anteroseptal (disorder)</li> <li>Acute Q wave infarction - anteroseptal (disorder)</li> </ul>				
<ul> <li>Acute ST segment elevation myocardial infarction of</li> <li>Acute atrial infarction (disorder)</li> </ul>				
<ul> <li>Acute myocardial infarction due to left coronary artery occlusion (disorder)</li> <li>Acute myocardial infarction due to right coronary artery occlusion (disorder)</li> </ul>				
Acute myocardial infarction during procedure (disorder)     Acute myocardial infarction of anterior wall (disorder)				
Acute myocardial infarction of anterolateral wall (disorded)	er)		Ť	













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88.0 KB der2_ssssssRefset_MRCMDomainMONOSnapshot_GB_20220316.txt       87.4 KB       88.0 KB       1       0       26.8 %         1.4 GB Terminology       1.4 GB       1.4 GB       1.4 GB       7       0       57.2 %         64.0 MB sct2_Concept_MONOSnapshot_GB_20220316.txt       64.0 MB       64.0 MB       1       0       4.4 %         451.7 MB sct2_Description_MONOSnapshot_GB_20220316.txt       64.0 MB       451.7 MB       1       0       31.3 %         0 Bytes sct2_Identifier_MONOSnapshot_GB_20220316.txt       92 Bytes       0 Bytes       1       0       0.0 %         924.3 MB sct2_Relationship_MONOSnapshot_GB_20220316.txt       924.3 MB       924.3 MB       1       0       64.1 %         0 Bytes sct2_sRefset_OWLExpressionMONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       64.1 %         0 Bytes sct2_sRefset_OWLExpressionMONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       0.0 %         0 Bytes sct2_statedRelationship_MONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       0.0 %         12.0 KB [2 Files]       6.1 KB       12.0 KB       2.9 MB       1       0       0.2 %         12.0 KB Readme-en.txt       4.1 KB       8.0 KB       1       0	52.0 KB der2_ssccRefset_MRCMAttributeRangeMONOSnapshot_GB_20220316.txt	50.2 KB	52.0 KB	1	0	15.9 %
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64.0 MB sct2_Concept_MONOSnapshot_GB_20220316.txt       64.0 MB       64.0 MB       1       0       4.4 %         451.7 MB sct2_Description_MONOSnapshot-en_GB_20220316.txt       451.7 MB       451.7 MB       1       0       31.3 %         0 Bytes sct2 Identifier_MONOSnapshot_GB_20220316.txt       92 Bytes       0 Bytes       1       0       0.0 %         924.3 MB sct2_Relationship_MONOSnapshot_GB_20220316.txt       924.3 MB       924.3 MB       1       0       64.1 %         0 Bytes sct2_sRefset_OWLExpressionMONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       0.0 %         0 Bytes sct2_statedRelationship_MONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       0.0 %         0 Bytes sct2_statedRelationship_MONOSnapshot_GB_20220316.txt       114 Bytes       0 Bytes       1       0       0.0 %         12.0 KB [2 Files]       6.1 KB       12.0 KB       22 Files]       0       0.0 %       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0       0.0 %       0	88.0 KB der2_ssssssRefset_MRCMDomainMONOSnapshot_GB_20220316.txt	87.4 KB	88.0 KB	1	0	26.8 %
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924.3 MB sct2_Relationship_MONOSnapshot_GB_20220316.txt       924.3 MB       924.3 MB       1       0       64.1 %         0 Bytes sct2_sRefset_OWLExpressionMONOSnapshot_GB_20220316.txt       79 Bytes       0 Bytes       1       0       0.0 %         0 Bytes sct2_StatedRelationship_MONOSnapshot_GB_20220316.txt       114 Bytes       0 Bytes       1       0       0.0 %         2.9 MB sct2_TextDefinition_MONOSnapshot-en_GB_20220316.txt       114 Bytes       0 Bytes       1       0       0.2 %         12.0 KB [2 Files]       6.1 KB       12.0 KB       2       0       0.0 %         8.0 KB Readme-en.txt       4.1 KB       8.0 KB       1       0       0.0 %	451.7 MB sct2_Description_MONOSnapshot-en_GB_20220316.txt	451.7 MB	451.7 MB	1	0	31.3 %
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*       12.0 KB [2 Files]       6.1 KB       12.0 KB       2       0       0.0 %         8.0 KB Readme-en.txt       4.1 KB       8.0 KB       1       0       0.0 %	0 Bytes sct2_StatedRelationship_MONOSnapshot_GB_20220316.txt	114 Bytes	0 Bytes	1	0	0.0 %
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	✓ <sup>1</sup> 12.0 KB [2 Files]		12.0 KB	2	0	0.0 %
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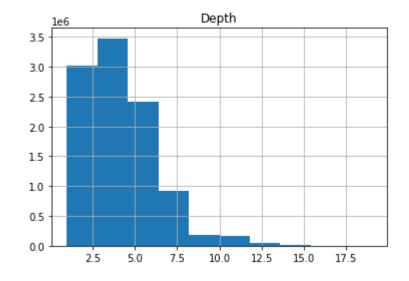




# Monolith TC (python - github)

- 10,236,374 rows
- 3 columns

Count	10,236,370
Mean	3.98
Std	2.25
Min	1
25%	2
50%	4
75%	5
Max	19









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ECDS

#### 1,185 terms







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NHH S TIMUST

Expand ECDS to all children

130,293 terms







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NHS INSt

Remove duplicate rows

73,626 terms







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NH S Inusii

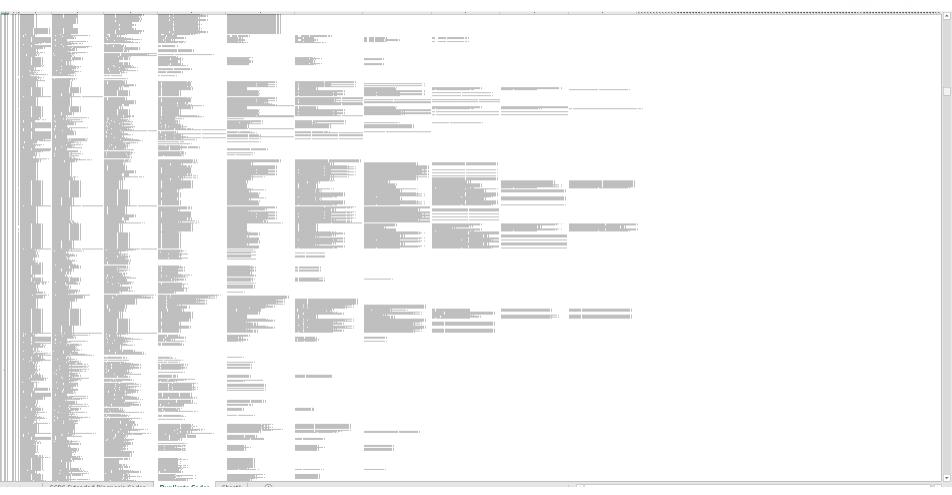
List descendent levels

#### Up to 9 levels





#### Samts Health









Barris Hieallthu

## Child level example

Kidney disease (disorder) (90708001)
Disorder of renal parenchyma (disorder) (767094002)
Nephritis (disorder) (52845002)
Glomerulonephritis (disorder) (36171008)
Chronic glomerulonephritis (disorder) (20917003)
Chronic proliferative glomerulonephritis (disorder) (195791000119101)
Chronic mesangial proliferative glomerulonephritis (disorder) (197613008)
Mesangiocapillary glomerulonephritis (disorder) (80321008)
Mesangiocapillary glomerulonephritis type III (disorder) (236409000)
Acute nephritic syndrome co-occurrent and due to membranoproliferative glomerulonephritis type III (disorder) (368871000119106)







ECDS core term	Disorder of nervous system (disorder) (118940003)	Disorder of nervous system (disorder) (118940003)
Child Level 1	Disorder of the central nervous system (disorder) (23853001)	Disorder of the central nervous system (disorder) (23853001)
Child Level 2	Disorder of meninges (disorder) (15758002)	Inflammatory disease of the central nervous system (disorder) (39367000)
Child Level 3	Meningitis (disorder) (7180009)	Meningitis (disorder) (7180009)
Child Level 4	Infective meningitis (disorder) (312216007)	Infective meningitis (disorder) (312216007)
Child Level 5	Bacterial meningitis (disorder) (95883001)	Bacterial meningitis (disorder) (95883001)
Child Level 6	Bacterial meningitis due to Gram-negative bacteria (disorder) (425887005)	Bacterial meningitis due to Gram-negative bacteria (disorder) (425887005)
Child Level 7	Gonococcal meningitis (disorder) (151004)	Gonococcal meningitis (disorder) (151004)







samis Hiealith

NHH 25 - HAU STI

Identify most and how far descended

#### 73,626 terms







# Most and how childlike example

ECDS core term	Disorder of nervous system (disorder) (118940003)	Disorder of nervous system (disorder) (118940003)
Child Level 1	Disorder of the central nervous system (disorder) (23853001)	Disorder of the central nervous system (disorder) (23853001)
Child Level 2	Spinal cord disorder (disorder) (48522003)	Infectious disease of central nervous system (disorder) (128117002)
Child Level 3	Myelitis (disorder) (41370002)	Bacterial infection of central nervous system (disorder) (128119004)
Child Level 4	Tuberculous myelitis (disorder) (34320001)	Mycobacterial infection of the central nervous system (disorder) (406594003)
Child Level 5		Tuberculosis of central nervous system (disorder) (10706006)
Child Level 6		Tuberculous myelitis (disorder) (34320001)







# Most and how childlike example

ECDS core term	Disorder of nervous system (disorder) (118940003)	Disorder of nervous system (disorder) (118940003)
Child Level 1		
Child Level 2		
Child Level 3		
Child Level 4	Tuberculous myelitis (disorder) (34320001)	
Child Level 5		
Child Level 6		Tuberculous myelitis (disorder) (34320001)







# Most and how childlike example

ECDS core term	Disorder of nervous system (disorder) (118940003)
Child Level 1	
Child Level 2	
Child Level 3	
Child Level 4	
Child Level 5	
Child Level 6	Tuberculous myelitis (disorder) (34320001)







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Identify & retain subset of equally descended terms ~2,500 terms

ECDS core term	Acute renal failure syndrome (disorder) (14669001)	Hepatic failure (disorder) (59927004)
Child Level 1	Hepatorenal syndrome (disorder) (51292008)	Hepatorenal syndrome (disorder) (51292008)







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NH 5 JAUST

Retain unique most descended terms 53,889 terms







# Frequency of ECDS terms

6088
3037
2821
1373
1340
1039
929
763
714
616
502





sams healtin

# hypocalcaemia Examples of child terms (23)

Hypocalcaemia	5291005	
Hypocalcaemia	5291005	Pseudohypoparathyroidism type I A (disorder)
Hypocalcaemia	5291005	Hungry bones syndrome (disorder)
Hypocalcaemia	5291005	Drug-induced hypocalcemia (disorder)
Hypocalcaemia	5291005	Hypocalcemic tetany (disorder)
Hypocalcaemia	5291005	Parturient paresis (disorder)
Hypocalcaemia	5291005	Hypocalcemia of late pregnancy or lactation (disorder)
Hypocalcaemia	5291005	Pseudohypoparathyroidism type 1C (disorder)
Hypocalcaemia	5291005	Autosomal dominant hypocalcemia (disorder)
Hypocalcaemia	5291005	Hypocalcemic rickets (disorder)
Hypocalcaemia	5291005	Phosphate-loading hypocalcemia (disorder)
Hypocalcaemia	5291005	Hypocalcemia of puerperium (disorder)
Hypocalcaemia	5291005	Parathyroid hypocalcemic tetany (disorder)
Hypocalcaemia	5291005	Hypocalcemia (disorder)
Hypocalcaemia	5291005	Pseudohypoparathyroidism type I B (disorder)
Hypocalcaemia	5291005	Pseudohypoparathyroidism type II (disorder)
Hypocalcaemia	5291005	Pseudohypoparathyroidism (disorder)
Hypocalcaemia	5291005	Lactation tetany (disorder)
Hypocalcaemia	5291005	Pseudohypoparathyroidism and pseudopseudohypoparathyroidism (disorder)
Hypocalcaemia	5291005	Pseudopseudohypoparathyroidism (disorder)
Hypocalcaemia	5291005	Late neonatal hypocalcemia (disorder)
Hypocalcaemia	5291005	Cow's milk hypocalcemia of newborn (disorder)
Hypocalcaemia	5291005	Neonatal hypocalcemia (disorder)





Examples of child terms – Migraine (37) terms

Migraine	37796009	
Migraine	37796009	Migraine variants (disorder)
Migraine	37796009	Complicated migraine (disorder)
Migraine	37796009	Non-familial hemiplegic migraine (disorder)
Migraine	37796009	Migraine aura without headache (disorder)
Migraine	37796009	Migraine with typical aura (disorder)
Migraine	37796009	Status migrainosus (disorder)
Migraine	37796009	Migraine due to estrogen contraceptive (disorder)
Migraine	37796009	Stroke co-occurrent with migraine (disorder)
Migraine	37796009	Status migrainosus co-occurrent and due to migraine without aura (disorder)
Migraine	37796009	Menstrual status migrainosus (disorder)
Migraine	37796009	Migraine induced by oestrogen contraceptive (disorder)
Migraine	37796009	Allergic migraine (disorder)
Migraine	37796009	Refractory migraine with aura (disorder)
Migraine	37796009	Refractory migraine without aura (disorder)
Migraine	37796009	Refractory migraine variants (disorder)
Migraine	37796009	Refractory migraine (disorder)
Migraine	37796009	Migraine with persistent visual aura (disorder)
Migraine	37796009	Chronic intractable migraine without aura (disorder)
Migraine	37796009	Acute confusional migraine (disorder)
Migraine	37796009	Migraine without aura, not refractory (disorder)
Migraine	37796009	Migraine variants, not intractable (disorder)
Migraine	37796009	Intractable ophthalmic migraine (disorder)
Migraine	37796009	Transformed migraine (disorder)
Migraine	37796009	Migraine variant with headache (disorder)
Migraine	37796009	Migraine without aura (disorder)
Migraine	37796009	Hemiplegic migraine (disorder)
Migraine	37796009	Retinal migraine (disorder)
Migraine	37796009	Chronic mixed headache syndrome (disorder)









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Consultation on a diagnostic code set for Same Day Emergency Care

- ECDS-Max contains sufficient detail and is fit for purpose in its current form and should be implemented in SDEC to record diagnoses
- NHS England should commission NHS Digital to publish and maintain ECDS-Max for use in SDEC







ECDS max further work

- Chief complaint max
- Comorbidities max
- Investigations max
- Treatments max
- Interested parties?







## ECDS uses

Clinical safety



ΕC

SDEC

- Handover between organisations
- Coding entire journey within organisation







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#### ECDS uses

- Biosecurity
  - Diagnosis
  - Disease notification outbreak
  - Part of the PM's COBR briefing pack during pandemic

SNOMED_Code	SNOMED_UK_Preferred_Term	SNOMED_Fully Specified_Name	
1325171000000109	Acute COVID-19 infection	Acute COVID-19 [ND] (disorder)	
1325181000000106	Ongoing symptomatic COVID-19	Extended COVID-19 (up to 3/12)	
1325161000000102	Post-COVID-19 syndrome	Prolonged COVID-19 syndrome (more than 3/12)	







## **ECDS uses - DARS**

- Application for analysis via NHSD Data Access Request Service (DARS)
  - 1100 ECDS approvals from Dec 19 to Feb 2022
  - ~40 / month

#### Data Access Request Service (DARS)

The Data Access Request Service (DARS) can offer clinicians, researchers and commissioners the data required to help improve NHS services.









## ECDS uses – DARS applications

Research/Academic       Supplier/commercial         Image: Commercial       Image: Commercial         Image: Commercial       Image: Commercial					
Local Authority Agency/Public Body NHS Trust healthc (CSU)	Local Authority	Agency/Public Body	NHS Trust	Charity Private healthc	Commis Support Unit





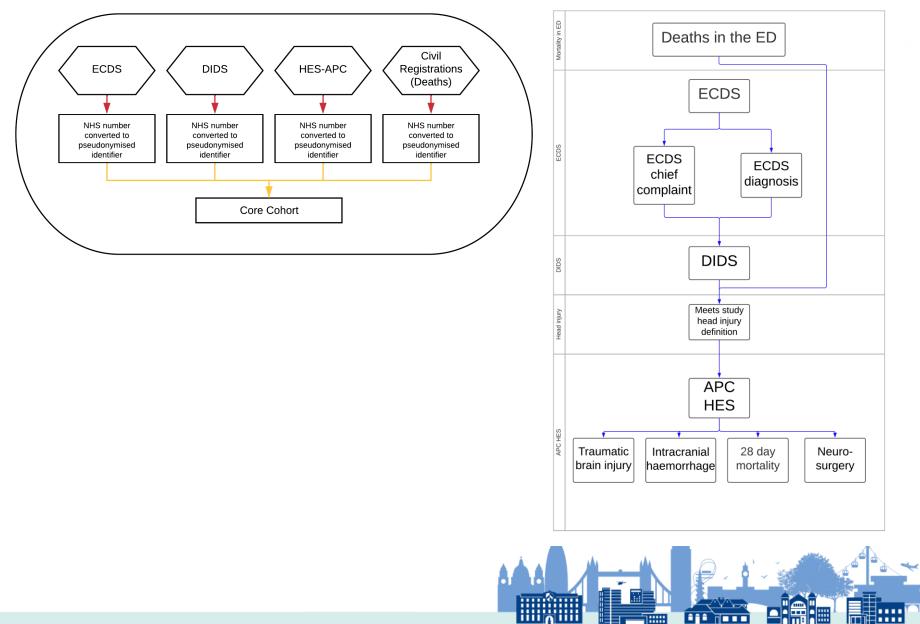
## ECDS uses – research

- Injury epidemiology
- Public health surveillance
- Chest pain / other symptomatic prognostication
- SARS-CoV-2 delta vs alpha ED attendance and hospital admission risk differential
- TBI



Queen Mary University of London

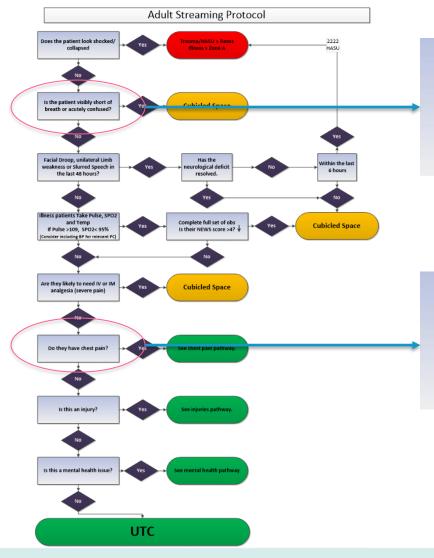








**ECDS uses - local** 



# Is the patient visibly short of breath or acutely confused?

#### Do they have chest pain?







**ECDS** uses - local

n tilleallt simuli Inni 2011

Study period	Sep 2019-Jan 2020	Jan-July 2021	
ED attendance	80,538 (526/day)	47,002 (382/day)	
Streamed to UTC	26,652 (33%)	19,451 (41%)	
Returned from UTC	1783 (7%)	1067 (5%)	
Admitted into hospital after return	198	50	
	(11% of returned,	(5% of returned,	
	<1% of total)	<1% of total)	
28 day mortality (n)	2	2	







Sants Hleallth

NHS Trust

## Summary

- Structure ECDS
- ECDS in the UEC System
- ECDS Max
- ECDS uses
- ECDS Max future work
- Interested parties ben.bloom@nhs.net







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#### Thank you

#### Questions

