

Civil Registration Data

PCMD(Primary Care Mortality Database)

3.10.22

Civil Registration Data Received by CYC

Patient Level Data

- Primary Care Mortality Database (PCMD) - Received from NHS Digital on a monthly basis. Approx. 3 months in arrears.
- Birth Data – Received from NHS Digital on a quarterly basis
(on NHS Digital data patients are not named but NHS numbers are shown)
- Births and deaths data – Received from Registrar weekly. Patient's name appears on the data but data is not post-coded (makes geographical analysis a bit trickier) also no ICD10 codes.

Other Summary / Aggregated Data

- ONS weekly Death Registrations – used for Covid & Excess deaths analysis
- Data on live deliveries from York Hospital – Quarterly. Provides local data on e.g. smoking at time of delivery.

PCMD Content

Patient Level Data

Fields include Age, Gender, NHS Number, Usual Address, Postcode, Ward, Occupation, Cause(s) of Death ICD10 codes and description, Location of death etc

Geography

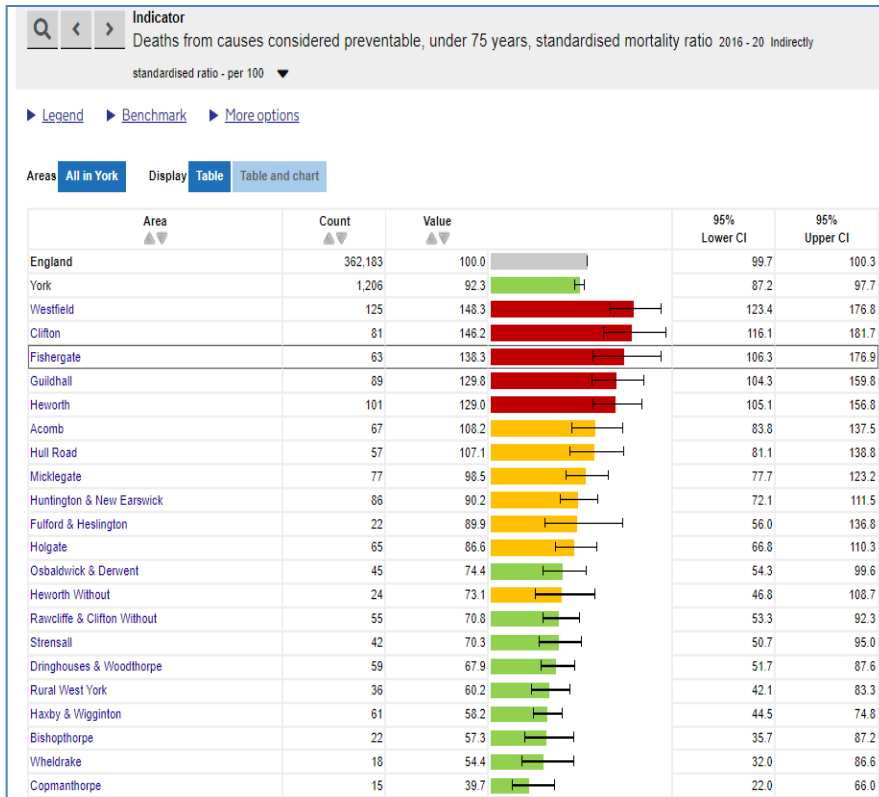
The York PCMD dataset contains deaths of York residents (regardless of location of death) as well as deaths occurring in York for non York residents.

Most death analysis is carried out on the former (deaths of York residents) although on occasions deaths of non-York residents occurring in York is of interest e.g. forthcoming suicide audit has requested this information as well.

PCMD v Published Data

There is loads of published data on mortality (at City and ward level) – which is aggregated, standardised and benchmarked so don't need to re-create this using the raw data.

PCMD data is however useful for looking at local data in more detail and in some cases to give a more up to date picture e.g. PCMD suicide KPI 's – more up to date than the annual published data



Indicator	Period	Recent Trend	Count	Value	Value	Value	Worst	Range	Best
E01 - Infant mortality rate	2018 - 20	-	18	3.5	4.2	3.9	6.8		1.7
E02 - Percentage of 5 year olds with experience of visually obvious dental decay	2018/19	-	-	18.9%	28.7%	23.4%	50.9%		8.7%
E03 - Under 75 mortality rate from causes considered preventable (2019 definition) (1 year range)	2020	→	235	134.1	160.3	140.5	272.5		68.2
E03 - Under 75 mortality rate from causes considered preventable (2019 definition) (3 year range)	2017 - 19	-	705	136.0	163.3	142.2	265.2		88.0
E04a - Under 75 mortality rate from all cardiovascular diseases (1 year range)	2020	→	112	64.4	82.5	73.8	137.1		36.1
E04a - Under 75 mortality rate from all cardiovascular diseases (3 year range)	2017 - 19	-	344	65.9	80.2	70.4	121.6		43.6
E04b - Under 75 mortality rate from cardiovascular diseases considered preventable (2019 definition) (1 year range)	2020	→	46	26.2	33.2	29.2	55.0		16.0
E04b - Under 75 mortality rate from cardiovascular diseases considered preventable (2019 definition) (3 year range)	2017 - 19	-	137	26.3	32.6	28.1	49.3		15.0
E05a - Under 75 mortality rate from cancer (1 year range)	2020	→	216	124.6	135.4	125.1	187.1		69.3
E05a - Under 75 mortality rate from cancer (3 year range)	2017 - 19	-	690	132.2	137.5	129.2	182.4		87.4
E05b - Under 75 mortality rate from cancer considered preventable (2019 definition) (1 year range)	2020	→	91	52.2	58.0	51.5	98.2		22.6
E05b - Under 75 mortality rate from cancer considered preventable (2019 definition) (3 year range)	2017 - 19	-	268	51.6	59.8	54.1	92.4		34.7
E06a - Under 75 mortality rate from liver disease (1 year range)	2020	→	29	16.9	21.8	20.6	44.9		9.4
E06a - Under 75 mortality rate from liver disease (3 year range)	2017 - 19	-	72	14.0	20.2	18.8	48.2		11.0
E06b - Under 75 mortality rate from liver disease considered preventable (2019 definition) (1 year range)	2020	→	24	14.0	19.1	18.2	37.8		7.9
E06b - Under 75 mortality rate from liver disease considered preventable (2019 definition) (3 year range)	2017 - 19	-	60	11.6	17.7	16.7	43.4		9.9
E07a - Under 75 mortality rate from respiratory disease (1 year range)	2020	→	44	25.1	34.3	29.4	77.2		10.2
E07a - Under 75 mortality rate from respiratory disease (3 year range)	2017 - 19	-	176	33.8	40.5	33.6	77.5		13.7
E07b - Under 75 mortality rate from respiratory disease considered preventable (2019 definition) (1 year range)	2020	→	23	12.9	20.1	17.1	53.7		6.5
E07b - Under 75 mortality rate from respiratory disease considered preventable (2019 definition) (3 year range)	2017 - 19	-	110	21.0	24.9	20.2	45.4		8.3
E08 - Mortality rate from a range of specified communicable diseases, including influenza (1 year range)	2020	→	17	8.1	7.7	8.3	16.4		4.1
E08 - Mortality rate from a range of specified									

PCMD Uses

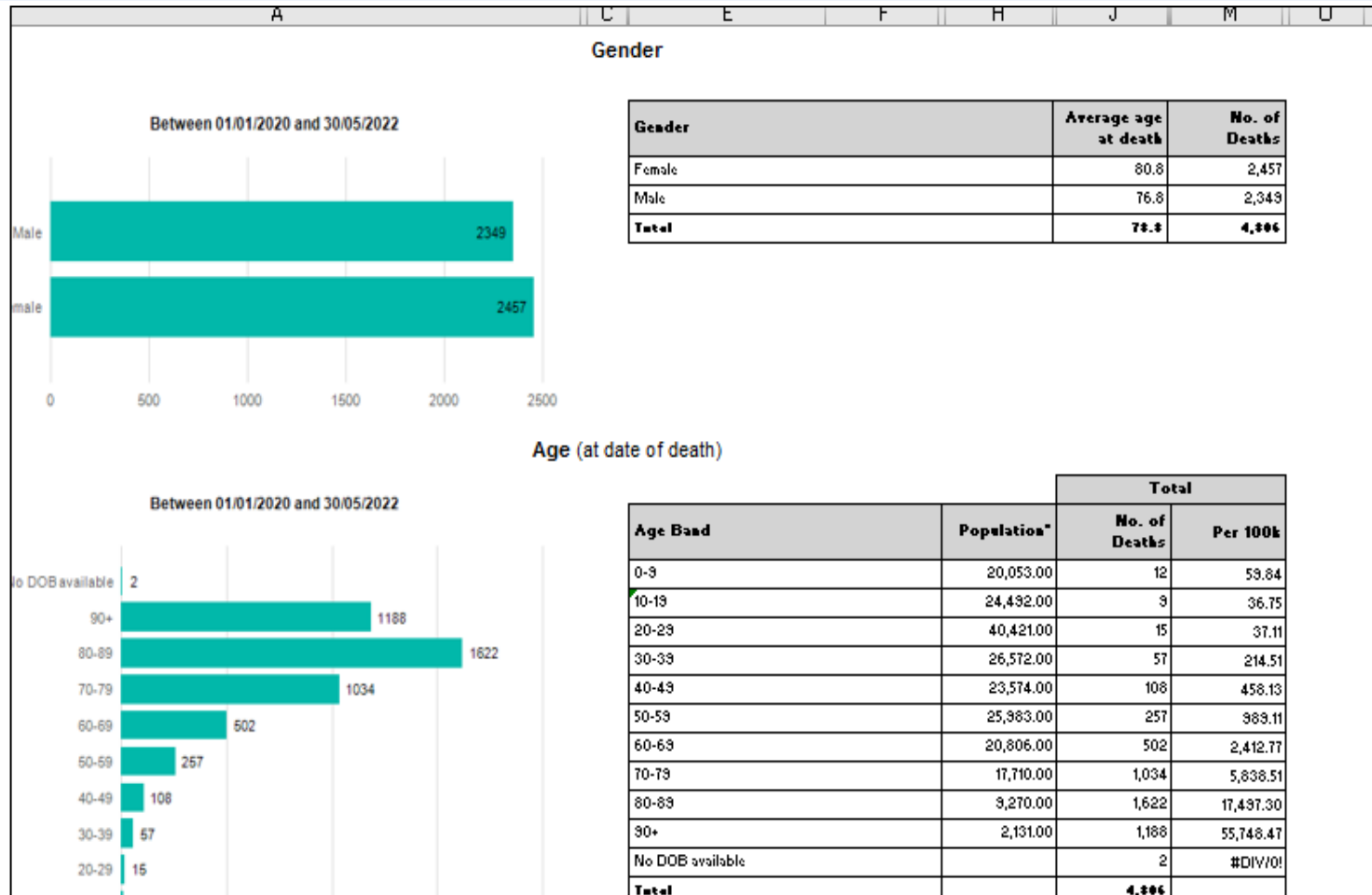
Have had data for 8 yrs approx. Has been used to do local analysis and to support topic specific needs assessment in relation to particular causes of deaths, for example:

- suicide
- drug misuse
- Covid-19
- deaths of people with learning disability
- deaths of children (for CDOP report)
- deaths in York rivers
- deaths from people of no fixed abode or in homeless/ resettlement accommodation
- deaths of residents from Mesothelioma (asbestos)
- excess Winter Deaths at ward level

NB Permission is needed to link datasets. E.g. permission was obtained from NHS Digital to link PCMD with Theseus for drug related deaths work.

Report 1- A summary of selected causes of death

The report 'A summary of selected causes of death' gives all deaths of York residents occurring in a specified time period showing a breakdown by ward, age band, gender and broad cause of death (based on the underlying cause of death ICD code). The output shown is a sample report showing all deaths between 1.1.20 and 30.5.22 for both genders and all causes of death.



Overview of causes of death

Report provides a breakdown of ICD-10 high level causes of death. Can 'expand' each high level heading to see a more detailed breakdown e.g. (next slide)

ICD category and code breakdown

ICD grouping	No of deaths
Certain conditions originating in the perinatal period (P00-P96)	5
Certain infectious and parasitic diseases (A00-B99)	32
Codes for special purposes (U00-U85)	431
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	10
Diseases of the blood (D50-D89)	7
Diseases of the circulatory system (I00-I99)	1205
Diseases of the digestive system (K00-K95)	211
Diseases of the ear and mastoid process (H60-H95)	1
Diseases of the genitourinary system (N00-N99)	48
Diseases of the musculoskeletal system and connective tissue (M00-M99)	23
Diseases of the nervous system (G00-G99)	340
Diseases of the respiratory system (J00-J99)	404
Diseases of the skin and subcutaneous tissue (L00-L99)	17
Endocrine, nutritional and metabolic diseases (E00-E89)	72
External causes of morbidity (V00-Y99)	22
Mental, Behavioral and Neurodevelopmental disorders (F01-F99)	357
Neoplasms (C00-D49)	1314
Not categorised using ICD10	166
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	141
Total	4806

Detailed causes of death – Circulatory System

As an example the heading of ‘Diseases of the Circulatory System’ has been expanded into more detailed codes

112	Diseases of the circulatory system (I00-I99)	1205
113	ICD description and code	No of deaths
114	Chronic ischaemic heart disease (I259)	204
115	Acute myocardial infarction (I219)	198
116	Stroke, not specified as haemorrhage or infarction (I64)	139
117	Chronic ischaemic heart disease (I251)	84
118	Atrial fibrillation and flutter (I489)	73
119	Other cerebrovascular diseases (I679)	45
120	Intracerebral haemorrhage (I619)	37
121	Heart failure (I500)	34
122	Nonrheumatic aortic valve disorders (I350)	27
123	Other peripheral vascular diseases (I739)	26
124	Hypertensive heart disease (I110)	26
125	Pulmonary embolism (I269)	26
126	Essential (primary) hypertension (I10)	18
127	Other nontraumatic intracranial haemorrhage (I629)	16
128	Hypertensive renal disease (I120)	15
129	Heart failure (I509)	15
130	Aortic aneurysm and dissection (I713)	15
131	Phlebitis and thrombophlebitis (I802)	13
132	Aortic aneurysm and dissection (I710)	13
133	Cerebral infarction (I639)	13

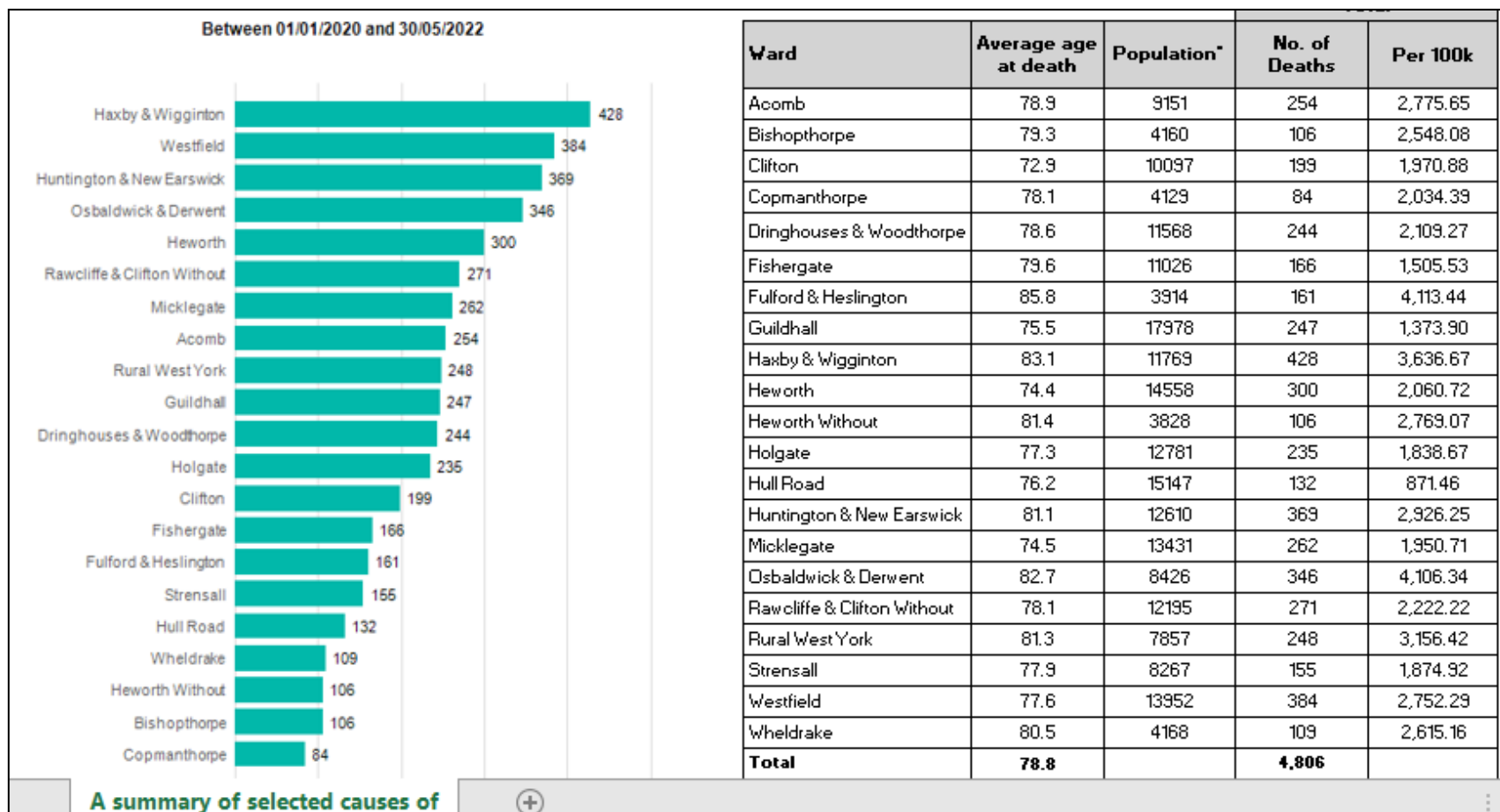
Detailed causes of death 2 – Neoplasms

As an example the heading of 'Neoplasms' has been expanded into more detailed codes

A	C	E	F	H	J	M
Neoplasms (C00-D49)						1314
ICD description and code						No of deaths
Malignant neoplasm of bronchus and lung (C349)						251
Malignant neoplasm of prostate (C61)						89
Malignant neoplasm of breast (C509)						86
Malignant neoplasm of pancreas (C259)						81
Malignant neoplasm of oesophagus (C159)						69
Malignant neoplasm, without specification of site (C800)						69
Malignant neoplasm of colon (C189)						44
Malignant neoplasm of rectum (C20)						39
Multiple myeloma and malignant plasma cell neoplasms (C900)						34
Malignant neoplasm of bladder (C679)						33
Malignant neoplasm of kidney, except renal pelvis (C64)						29
Malignant neoplasm of rectosigmoid junction (C19)						29
Malignant neoplasm of brain (C719)						29
Malignant neoplasm of liver and intrahepatic bile ducts (C221)						29
Malignant neoplasm of ovary (C56)						25
Malignant neoplasm, without specification of site (C809)						21
Malignant melanoma of skin (C439)						21
Malignant neoplasm of corpus uteri (C541)						20
Malignant neoplasm of stomach (C169)						19
Myeloid leukaemia (C920)						17
Mesothelioma (C459)						15

Deaths by Ward

Numbers, rates and average age at death by ward are shown. NB Data can provide an earlier indication of life expectancy disparities e.g. range of 72.9 to 85.8 for average age at death over this period



Report 2 Detailed mortality records for selected causes of death

The report shows a line for each death with some demographic details and all causes of death noted on the death certificate – this output shows deaths of males in 2020 from diseases of the respiratory system (restricted access as contains PID)

Age	Date of Birth	Date of Death	Date of Reg.	LSOA of Residence	Occupation of Deceased	Sex	Ward	Cause of Death Code	Cause of Death
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Reports for Specific Causes of Death

Have set up some more specific version of the reports e.g. for deaths from Covid-19 and deaths by suicide. May add some more in due course e.g. deaths from Drug Misuse.

Primary care mortality Reports covering different thematic classifications for mortality



[A summary of Covid-19 as a cause of death](#)

Breakdown of York Covid-19 deaths between specific dates



[A summary of selected causes of death](#)

Breakdown of York selected deaths between specific dates



[A summary of suicide as a cause of death](#)

Breakdown of York suicide deaths between specific dates

Access

Summary Reports are accessible to people within PH. Detailed line by line report is restricted.

RE: Reports on PCMD

○ Taylor, Andrew

To ● Wimmer, Michael

📧 You forwarded this message on 08/08/2022 16:10.

↩ Reply ↩ Reply All → Forward ⋮

Wed 03/08/2022 16:46

The PCMD reports are on the Public Health Dashboard under the Primary Care Mortality section. The Dashboard is open to anyone in the CYC\PH_KPI_Dashboard active directory group; this group represents approved users and includes:

Baker, Heather
Bell, Leigh
Cunningham, Ian
Darbyshire, Emma
Dobson, Anita
McPhillips, Natalie
Orme, Matthew
Phillips, Fiona
Press, Philippa
Roderick, Peter
Rudden, Terry
Stoltz, Sharon
Taylor, Andrew
Thomson, Jessica;
Truby, Philip
Wimmer, Michael

There is additional security on the Admin section of the dashboard which also contains PCM data; only BI see this section.

Thanks

Further Work

- Using PCMD reports to provide some analysis for forthcoming Suicide Audit.
- To Develop similar reporting for births data. Have not had many queries re: births to date although there was one relating to falling birth rates in York so may be useful to set up some standard reports.