

Data for the head, stories for the heart





#### Making the most of our time together

- Please keep your microphone muted
- Introduce yourselves in the chatbox
- Use chatbox to ask questions / raise technical issues
- Sessions are recorded and put on our website
- Tweet!

#Insight2021 @MidlandsDSN @Strategy\_unit





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# Data for the head, Stories for the heart

Communicating the insights that motivate actions

Fraser Battye, Kathryn Mannix, Justine Wiltshire, Ollie Minton





INQUEST: Hearing told elderly woman died three days after arrival at hospital

## Daughter's surprise at mother's decline

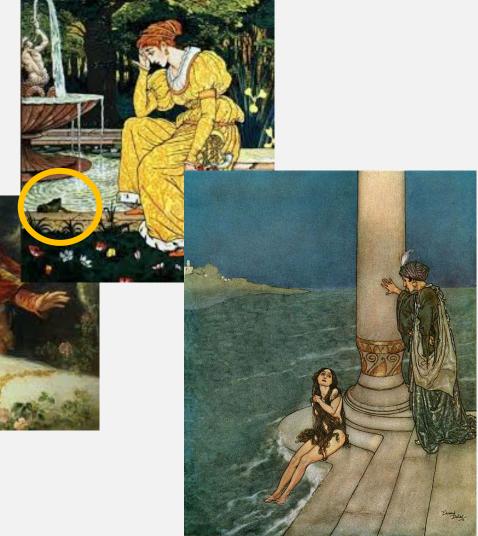
NHS discharge system failing too many elderly patients, says watchdog

## Elderly care cut despite demand

**EXCLUSIVE:** Council scraps 15% of care home places

Once upon a time....







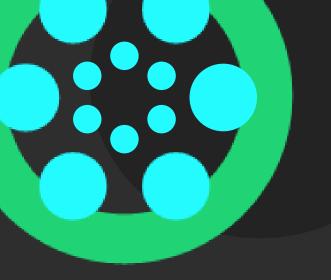


## Health service use in the last two years of life

#### 1 October 2020

Prepared by: Justine Wiltshire and Fraser Battye







Analysis Healthcare
use in the last
two years of
life



#### Introduction

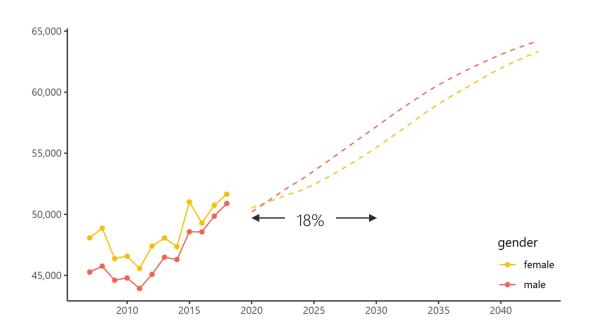
There were **93,580** adult deaths in the Midlands in 2018/19.

(These findings predate the Covid-19 pandemic)

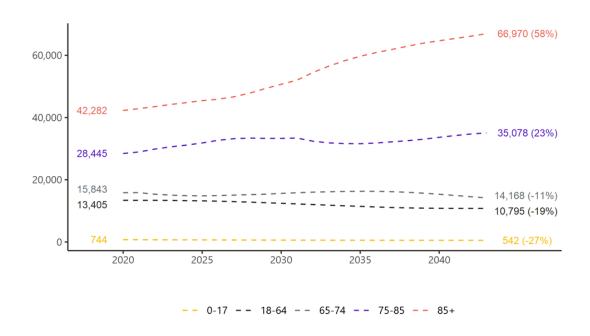
In our reports we utilise each of these deceased individuals' **mortality record**, collected when deaths are certified and registered, and link this to their retrospective **healthcare activity**, also sourced from national data, which take place in the two-year period prior to their death.

Linkage between a person's mortality record and their interactions with healthcare services, as collected by providers, form a potent population dataset. It can be used to reflect on the **manner of a person's death** and the **type, frequency and resource** of the activities allocated to this population over the two-year period before they die.

#### Deaths predicted to increase, future shift to more males than females

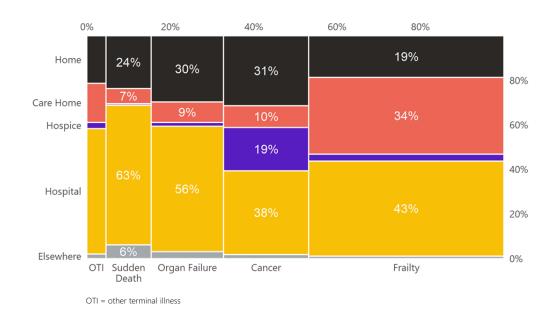


#### Older age groups are where deaths are increasing



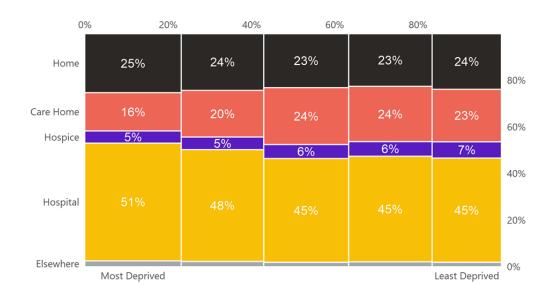
## Of all deaths 47% took place in hospital but place of death profile differs by cause of death

Place of death by cause of death group



## The most deprived had more deaths in hospital and fewer deaths in care homes

Place of death by quintile of deprivation

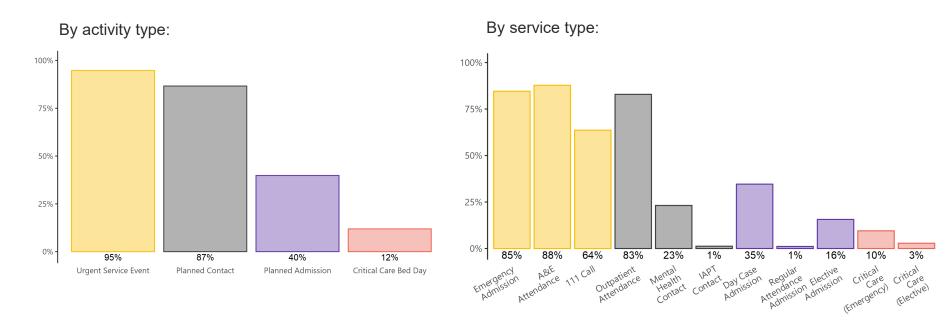


#### Which people access what healthcare?...and how do we categorise them?

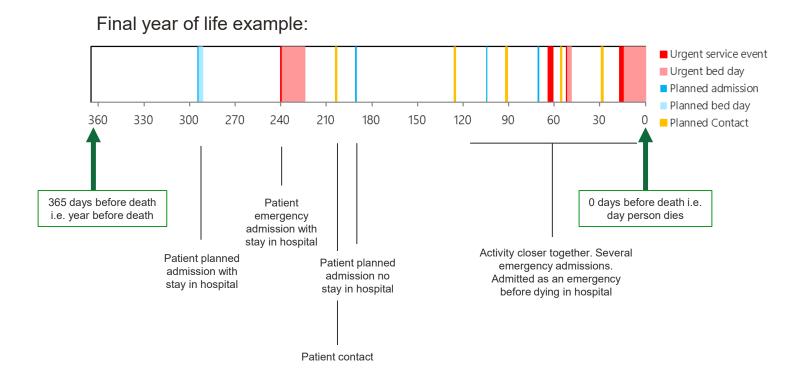
From the datasets used in this report services have been grouped into four different healthcare activity types, comprised of the following service groups.

ACTIVITY TYPE	SERVICE GROUP
Urgent service event	Emergency Admissions
	A&E Attendances
	Calls to 111
Planned contact	Planned Outpatient Attendances
	Mental Health Contact
	IAPT Appointments
Planned admission	Daycases
	Elective Admissions
	Regular Day/Night Admissions
Bed days	Critical Care
	All Other Bed Types

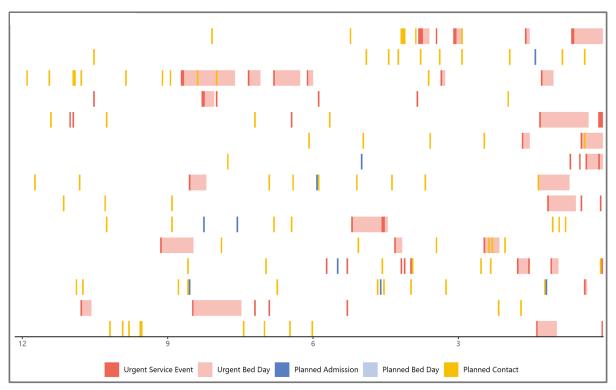
## Most people have at least one urgent care interaction in the two years before they die



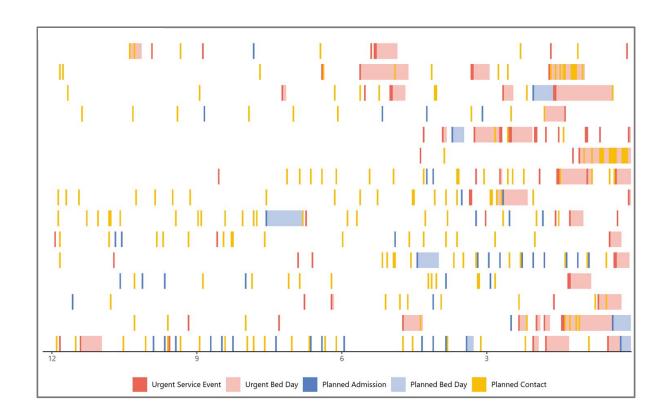
#### What does a person's end of life care pathway look like?



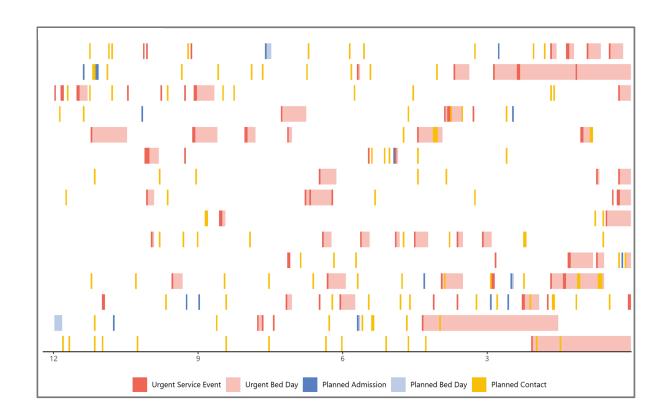
## What does pathway look like for patients who die because they are frail?



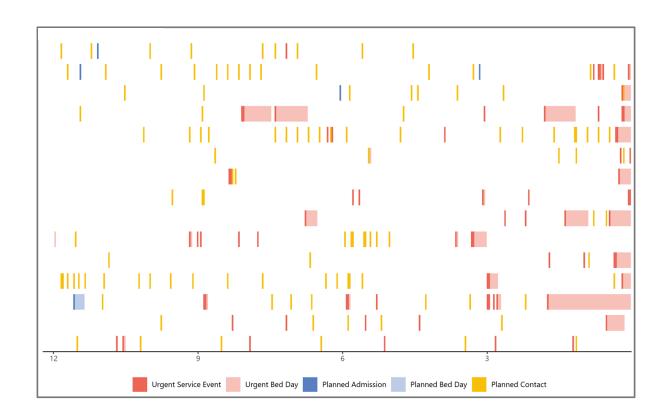
#### What does pathway look like for someone dying from cancer?



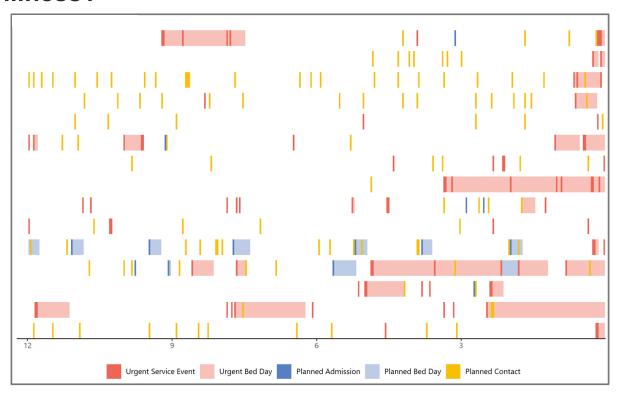
#### What does pathway look like for someone dying from organ failure?



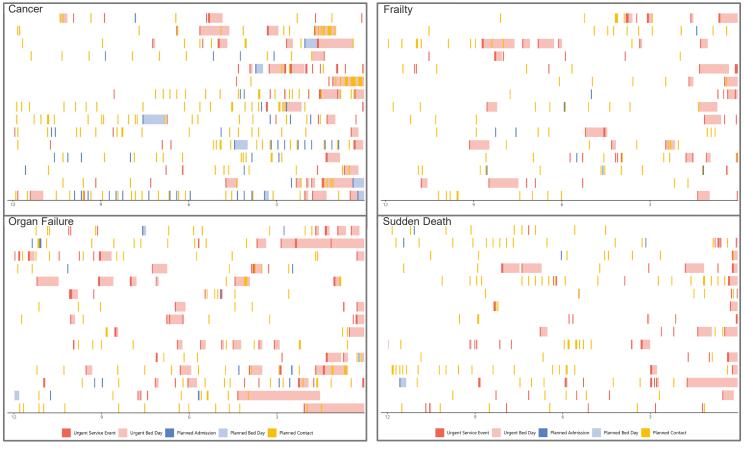
#### What does pathway look like for someone who has a sudden death?

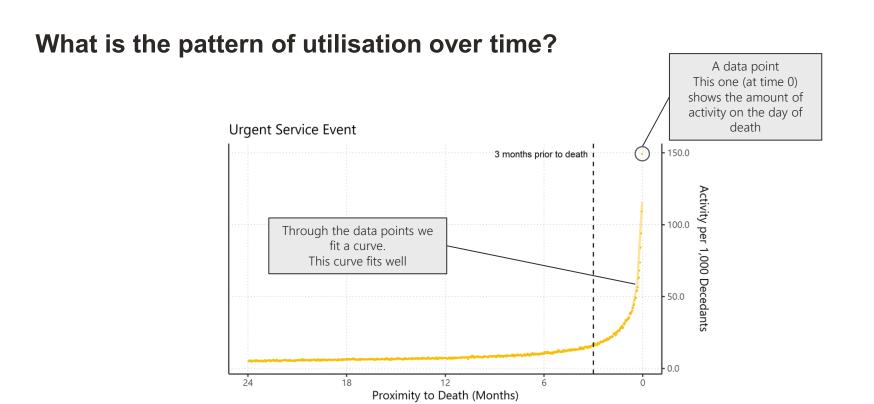


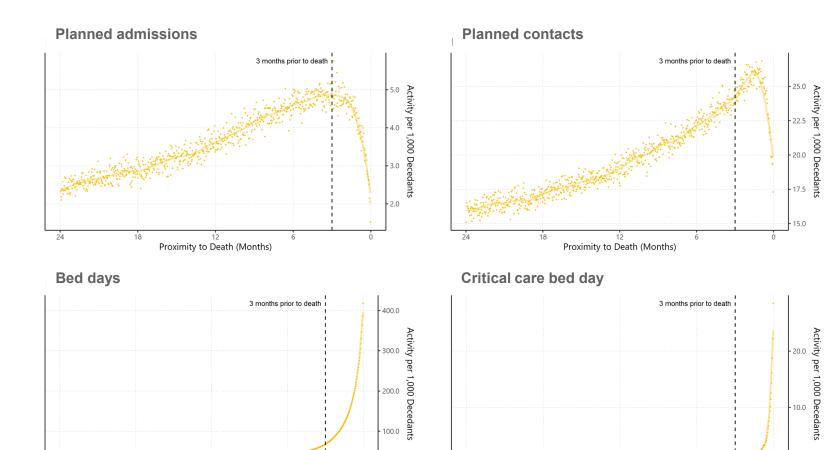
## What does pathway look like for someone who has an other terminal illness?



#### How do pathways compare to each other?



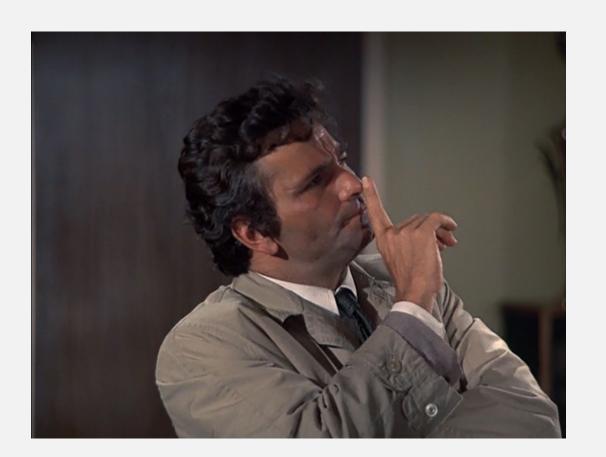


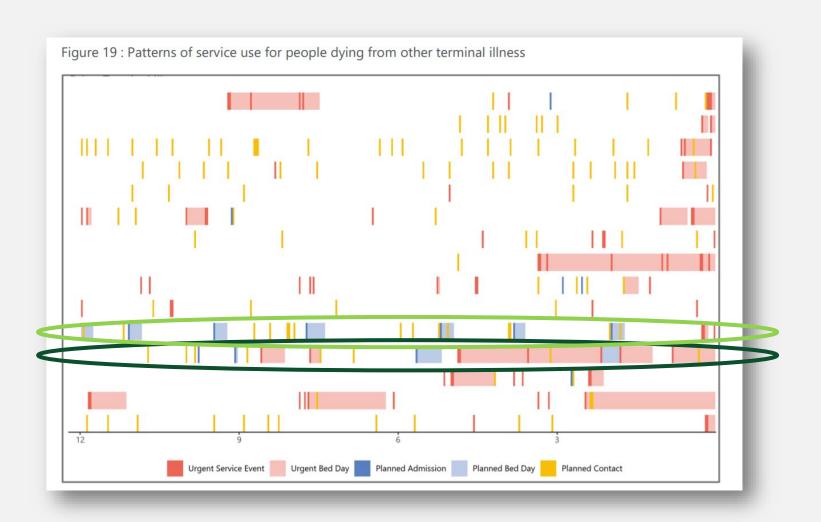


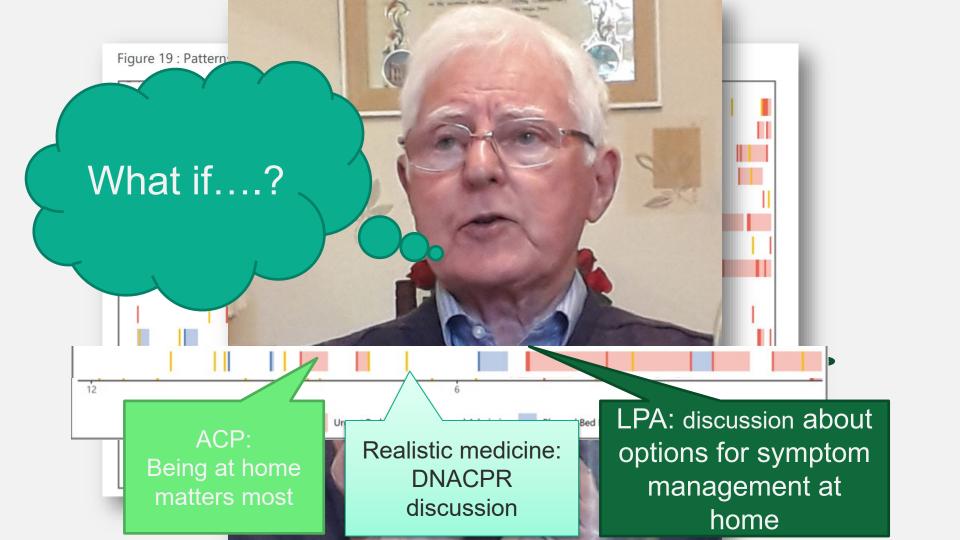
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Proximity to Death (Months)

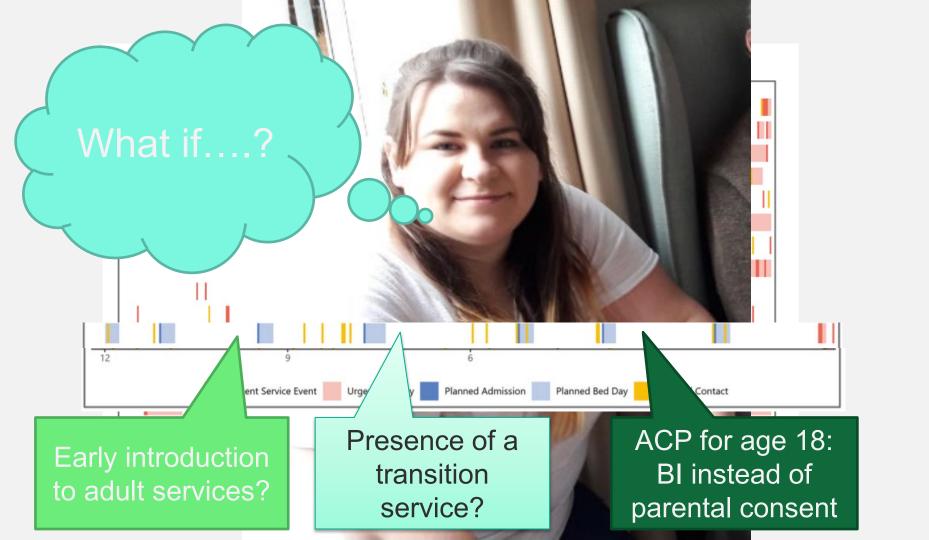
Proximity to Death (Months)









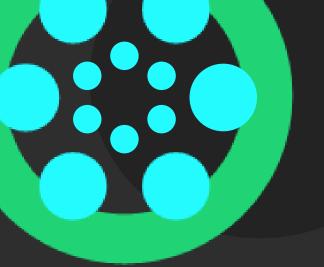




#### **Data with stories**

- We cannot make a business case without access to reliable data
- The decision-makers need to understand what the data mean
- Data explain a big picture, and help us to make sense of what is happening to populations, organisations and services
- Stories help us to relate the data to what is happening to individual people, families and groups
- We need both:

Data for the head, stories for the heart





## Healthcare use in the last 2 years of life

Dr Ollie Minton

CD for cancer and consultant palliative medicine



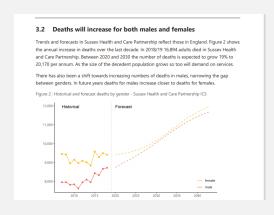
#### **Background**

- Over 80% attend A&E at least once in the two years prior to their death
- 90% access acute services
- 30% of all acute admissions are in the last year of life 10% of which die on that admission (LOS median 2 days)
- Link to treatment escalation plans / respect / primary care communication

#### **National Picture**

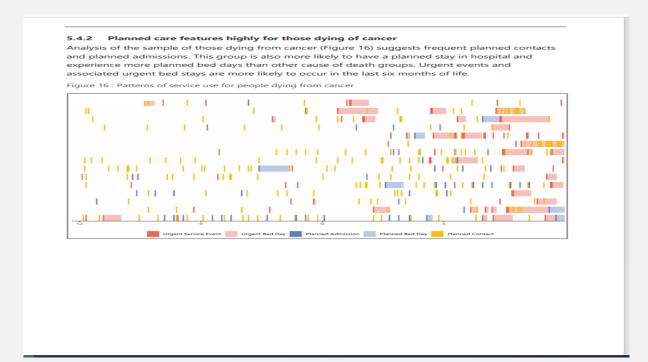
- 29% NHS spending is on patients in the last year of their life
- 1:3 of the adult inpatient population is in the last year of their life
- 1:10 is in their last admission
- Supportive and palliative care intervention is evidenced to reduce cost of hospital admission by 14-24%

## 66% of people say they would like to die at home. In Sussex Health and Care Partnership just 22% do so



- Ageing population
- More co-morbidities
- Fits true north of reduction in crude mortality
- Earlier recognition of deterioration

#### Cancer as an example

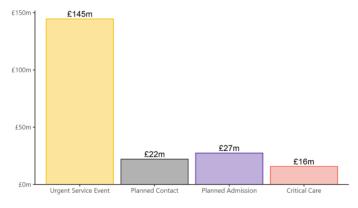


## **Opportunities**

#### 8.1 Urgent care accounts for two-thirds of expenditure

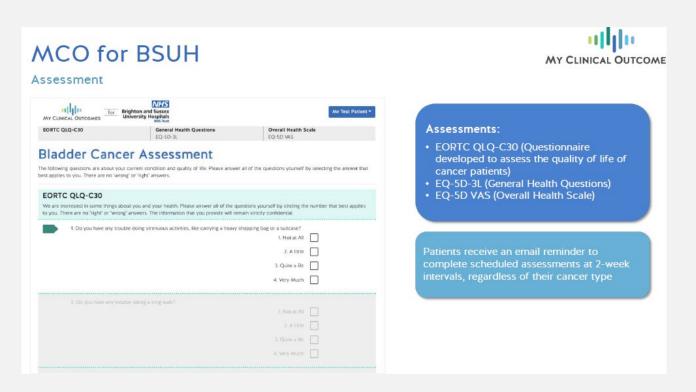
The calculated total hospital spend in the last two years of life in Sussex Health and Care Partnership is £210 million. Figure 51 shows spend by activity type. Urgent services dominate spend, consuming two-thirds of end of life resource.

Figure 51: Total spend by activity type in two years prior to death – Sussex Health and Care Partnership ICS



#### **PROMS**











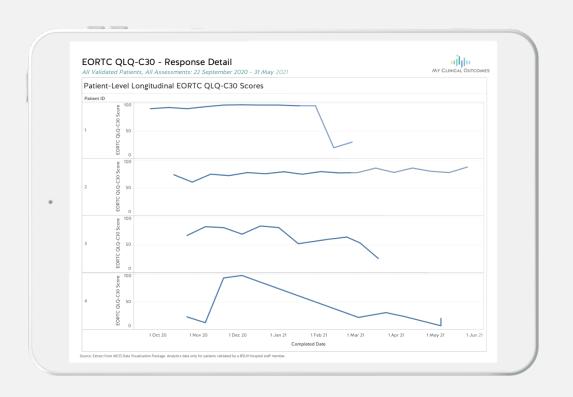
#### **BSUH ESC Summary**

22nd Sept 2020 – 11<sup>th</sup> August 2021

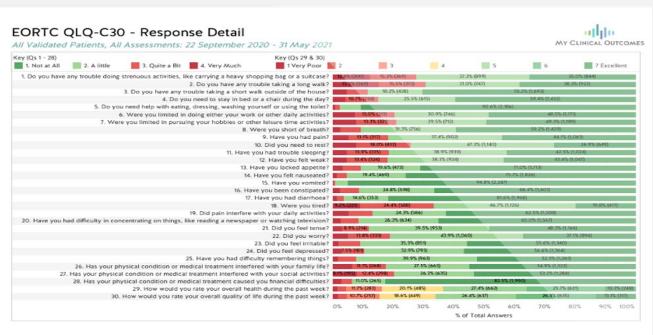




# Overall quality of life changes



## Symptom burden



#### Total Assessments By Cancer Type

Breast (Primary)	Bladder	Bowel	Breast (Secondary)	Kidney	Liver	Lung	Oesophageal	Other	Ovarian	Pancreatic	Prostate	Stomach	Total
19	26	27	763	44	40	37	41	728	62	46	539	40	2,412

Source: Extract from MCO Data Visualisation Package. Means calculated across all completed assessments. Analytics data only for patients validated by a BSUH hospital staff member.

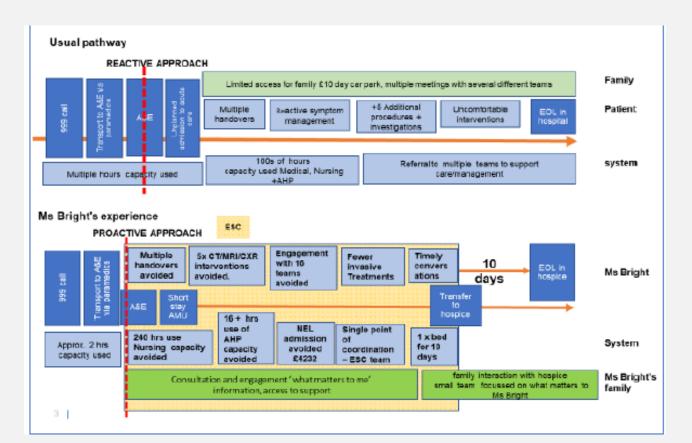
## The Project

- 2 year fixed term project
  - Funded by NHS England
- Initially staffed by:
  - 3x Clinical Nurse Specialists
  - 1x Clinical Fellow
  - Data support from the Academic Health Sciences Network
- Project Aims
  - To reduce number of unnecessary admissions, clinical investigations and length of stay
  - To provide quicker symptom management and holistic care needs
  - To provide earlier access to specialist services and AHP reviews
  - Initially provided to those with a cancer diagnosis on a *treatable but curative pathway*

#### What We Learned

- Soon realised that zoning in on such a specific patient population was too limiting
- Now we see patients across the Acute Floor who:
  - Have a cancer diagnosis, irrespective of their treatment options
  - Have unmet palliative or supportive care needs
  - Are at risk of clinical deterioration

# **Mrs Bright**



## **Mrs Bright**

#### Modelling of potential system benefits from ESC using Ms Bright's experience

	Service	Ms Bright	1 x Ms Bright per month	1 x Ms Bright per week	
Costs Avoided £	Acute care tests and procedures	5,500	66,000	286,000	
	Non elective admission	4,232	50,784	220,064	
Total (minimum)		£9,732	£116,784	£506,064	
Capacity regained	Acute care - hrs	270	3240	14,040	
reguined	Bed days freed	10	120	520	
	A&E - hrs	8	96	416	
	Paramedic services - hrs	2	24	104	
Total (minimum hrs)		290	3480	15,080	

Benefits of involving the ESC team in A&E meant that Ms Bright's wishes were respected; she was moved to a hospice and supported by her family for the remaining days of her life. This was achieved with less than five hours of ESC team clinical time (£125) and support from the hospice (£1100 for 2 weeks). The savings generated from ESC engagement exceed £10k. – the costs here reflect the minimum of 'bed and board' cost. Together with at least 270 hours of capacity, that could be used for caring for other patients – including 240 hours of nursing time, over 16 hours of AHP capacity and ten days of bed use.

### What patients and staff say

"I hate coming into hospital, so if teams can see I'm not doing so well through this site and stop that, then I'm all for it"

"I'm willing to try anything that may help or improve the care that I receive from the hospital"

"With a MCO assessment available a phone call can take 5 mins; if not, it takes longer and you risk missing something"

"Strong consideration should be given to the use of validated PROMS for patients to record symptoms of disease and side-effects of treatment experienced <u>as a regular part of clinical care.</u>

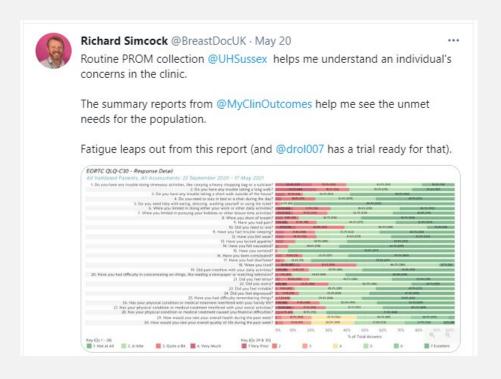
Systematic monitoring would facilitate communication between patients and their treatment teams by better characterising the toxicities of all anticancer therapies.

This would permit <u>early intervention</u> of supportive care services, thus enhancing quality of life.

"Its like a NEWS score for cancer"

"By using MCO I can call the right people who need help, and just monitor others remotely. It'll save me so much time!!"

### **An Oncologists Perspective**



#### **Conclusions**

- Changes in Quality life scores sensitive indicator toxicity / progression etc
- Attending as an emergency regardless of reason clear indicator of deterioration vs elective care – should mandate supportive / palliative care discussions
- Collaboration key for an in reach service acute medicine want guidance for all oncological problems and don't discriminate



# Up and coming events

Date	Time	Event name
Monday 4th October		
Tuesday 5th October	10:00-11:00	What can we learn from the pandemic to reduce health inequalities? (Register)
Wednesday 6th October		
Wednesday 6th October	14:00-15:30	Insight to Action – what works? (Register)
Thursday 7th October		
Monday 11th October	10:00-11:30	The most valuable value - a health & care resourcing dilemma (Register)
Monday 11th October		
Tuesday 12th October	09:00-10:00	Reducing health inequalities: the practical & ethical challenges (Register)
Tuesday 12th October	13:00-14:00	Data for the head, stories for the heart (Register)
Wednesday 13th October	10:00–11:00	Insight to action: How can we change behaviour? (Register)
Thursday 14th October	10:00-11:15	Misinformation and how do we tackle it? (Register)
Friday 15th October	10:00-11:00	INSIGHT 2021 closing session: Insight to Action – lessons from the think tanks (Register)

# Thank you to everyone for coming and thank you to our guest speakers.



#### Contact us

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