

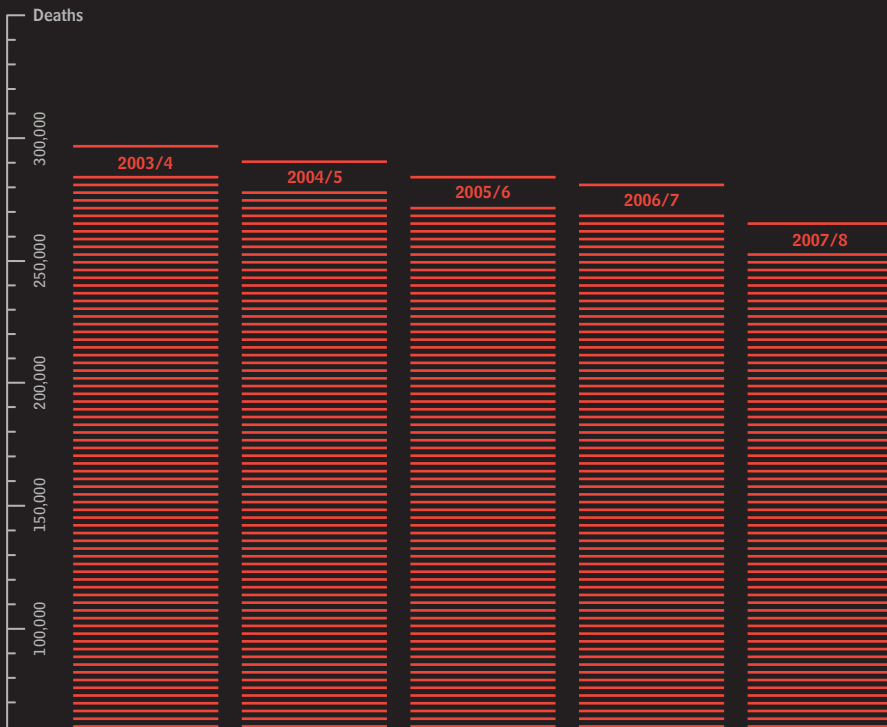
# YOUR MORTALITY RATE IS YOUR PULSE (KEEP YOUR FINGER ON IT)

MEASURING MORTALITY IN THE NHS

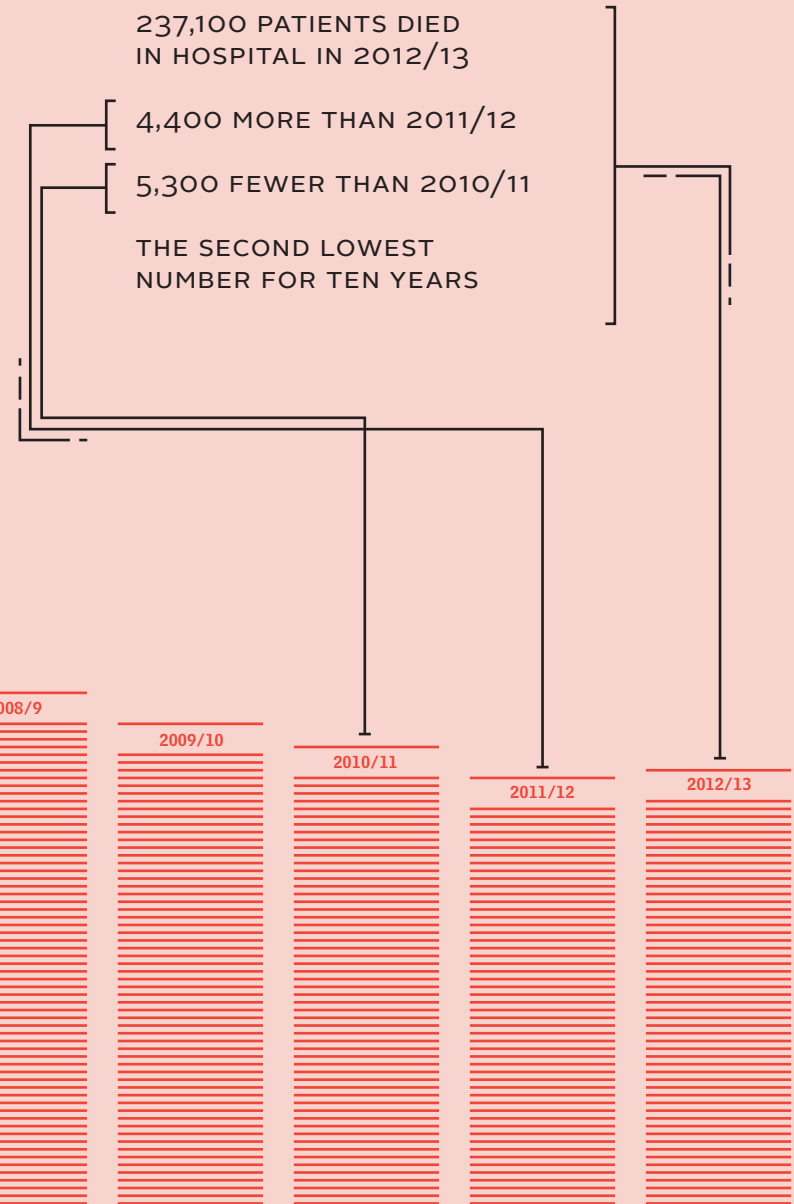
# MEASURING DEATHS IS A GOOD WAY OF CHECKING HOW WELL HOSPITALS ARE CARING FOR PATIENTS



FIND MORE INFORMATION ABOUT MORTALITY RATES AT [myhospitalguide.com/mortality](http://myhospitalguide.com/mortality)



## 2012/13 IN NUMBERS



## WHY IS THIS IMPORTANT?

“The NHS should use mortality rate indicators such as the Hospital Standardised Mortality Ratio or suitable alternatives as one of its ways to detect potentially severe performance defects that are worth investigating further.”

A promise to learn – a commitment to act (The Berwick Review),  
August 2013.



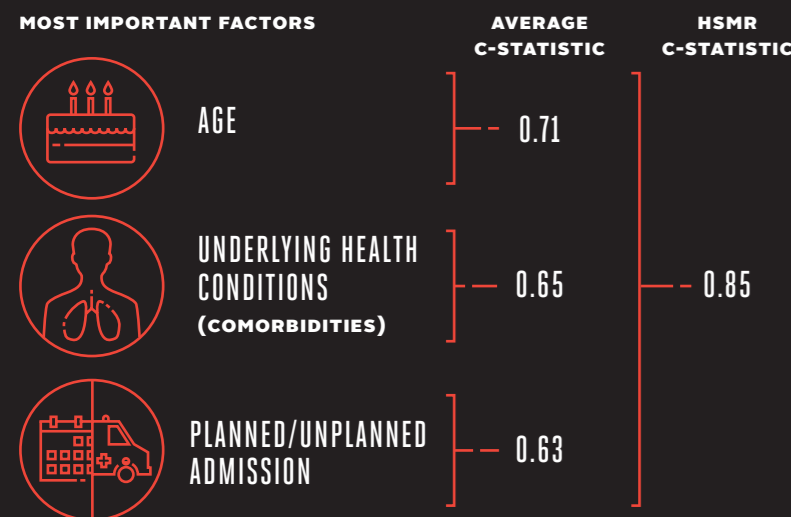
**THINK ABOUT THE CONTEXT IN  
WHICH THESE HOSPITALS WORK**

## RISK ADJUSTMENT

The first thing we need to know to create a mortality measure is the reason or diagnosis for which the patient was admitted to hospital.

HIGHEST CRUDE MORTALITY		LOWEST CRUDE MORTALITY	
53%	CARDIAC ARREST AND VENTRICULAR FIBRILLATION	0.2%	ABDOMINAL PAIN

All hospitals treat different patients, some have older patients and some have patients more likely to have a serious condition. In 2012/13 we have included 12 different factors in our main way of measuring deaths in hospital (which we call the Hospital Standardised Mortality Ratio or HSMR).



### C-STATISTIC?

The C-statistic tells you the degree to which each factor predicts the death of the patient. A statistic of 1 for age would mean that age completely determined whether or not the patient died. A statistic of 0.5 would mean there was no connection between age and the likelihood of death.

## HIGHLIGHTING HOSPITALS

We then put hospitals into groups to highlight where the variation in mortality rate is unlikely to be due to chance. These are the hospitals where the data suggests there may be problems (high rates) or better standards of care (low rates).

### HOSPITAL TRUSTS WHERE HSMR IS SIGNIFICANTLY HIGHER THAN EXPECTED

Blackpool Teaching Hospitals NHS Foundation Trust  
Burton Hospitals NHS Foundation Trust  
George Eliot Hospital NHS Trust  
Heart of England NHS Foundation Trust  
Medway NHS Foundation Trust  
Mid Cheshire Hospitals NHS Foundation Trust  
North Cumbria University Hospitals NHS Trust  
North Tees and Hartlepool NHS Foundation Trust  
Northern Lincolnshire and Goole Hospitals NHS Foundation Trust  
Northumbria Healthcare NHS Foundation Trust  
Salisbury NHS Foundation Trust  
Sherwood Forest Hospitals NHS Foundation Trust  
South Tees Hospitals NHS Foundation Trust  
United Lincolnshire Hospitals NHS Trust  
University Hospitals Birmingham NHS Foundation Trust  
West Hertfordshire Hospitals NHS Trust

### HOSPITAL TRUSTS WHERE HSMR IS SIGNIFICANTLY LOWER THAN EXPECTED

Airedale NHS Foundation Trust  
Ashford and St Peter's Hospitals NHS Foundation Trust  
Barnet and Chase Farm Hospitals NHS Trust  
Barts Health NHS Trust  
Cambridge University Hospitals NHS Foundation Trust  
Chelsea and Westminster Hospital NHS Foundation Trust  
Dartford and Gravesham NHS Trust  
East Kent Hospitals University NHS Foundation Trust  
Epsom and St Helier University Hospitals NHS Trust  
Frimley Park Hospital NHS Foundation Trust  
Guy's and St Thomas' NHS Foundation Trust  
Hull and East Yorkshire Hospitals NHS Trust  
Imperial College Healthcare NHS Trust  
Ipswich Hospital NHS Trust  
James Paget University Hospitals NHS Foundation Trust  
King's College Hospital NHS Foundation Trust  
Leeds Teaching Hospitals NHS Trust  
Mid Staffordshire NHS Foundation Trust  
North Middlesex University Hospital NHS Trust  
North West London Hospitals NHS Trust  
Plymouth Hospitals NHS Trust  
Royal Free London NHS Foundation Trust  
Salford Royal NHS Foundation Trust  
St George's Healthcare NHS Trust  
The Whittington Hospital NHS Trust  
University College London Hospitals NHS Foundation Trust  
University Hospitals Bristol NHS Foundation Trust  
West Suffolk NHS Foundation Trust



EXPLORE THE TRUST DATA AT [myhospitalguide.com/mortality](http://myhospitalguide.com/mortality)

## WHAT ARE THE DIFFERENT MEASURES OF MORTALITY?

There are many ways to measure mortality. It is important to consider the following questions.

- ✓ How many patients died from the groups of diagnoses where 80% of deaths occur? Measured using the **HSMR**.
- ✓ How many patients died in each hospital site and what happens if we remove patients in community or longer-term care? Measured using our **site-level HSMR** and the **HSMR excluding community care**.
- ✓ What happens to patients at the end of their life? Tracked by looking at **palliative care** rates.
- ✓ What happens if we include patients who died soon (within 30 days) after leaving hospital? Measured using the **Summary Hospital-level Mortality Indicator (SHMI)**.
- ✓ How many patients died after an operation possibly went wrong? Measured using our **Deaths after Surgery** indicator.
- ✓ How many patients died who had a condition with a low immediate risk of death? Measured using our **Deaths in Low-risk Conditions** indicator.

### HOSPITAL TRUSTS WITH POTENTIAL PROBLEMS AFTER AN OPERATION POSSIBLY WENT WRONG

Hull and East Yorkshire Hospitals NHS Trust  
King's College Hospital NHS Foundation Trust  
University Hospital of North Staffordshire NHS Trust  
University Hospital of South Manchester NHS Foundation Trust  
University Hospitals Birmingham NHS Foundation Trust

### HOSPITAL TRUSTS WITH VERY GOOD RESULTS FOLLOWING SURGERY

Guy's and St Thomas' NHS Foundation Trust  
North Middlesex University Hospital NHS Trust  
Northern Devon Healthcare NHS Trust  
Sheffield Teaching Hospitals NHS Foundation Trust  
Warrington and Halton Hospitals NHS Foundation Trust

## INTERROGATING THE INFORMATION

What happens if we:

### EXCLUDE COMMUNITY BEDS

ONE TRUST IMPROVES ITS BANDING

### LOOK AT INDIVIDUAL HOSPITALS WITHIN A HOSPITAL TRUST

10 TRUSTS HAVE ONE OR MORE HOSPITALS WITH A RATE HIGHER THAN THE OVERALL TRUST

14 TRUSTS HAVE ONE OR MORE HOSPITALS WITH A LOWER RATE THAN THE OVERALL TRUST

### EXAMINE PALLIATIVE CARE RATES

RATES OF PALLIATIVE CARE VARY FROM 1.2% TO 43.2%  
ADJUSTING FOR RATES OF PALLIATIVE CARE MAKES A SIGNIFICANT DIFFERENCE TO MORTALITY (AS MEASURED BY THE SHMI) FOR 29 TRUSTS

### PERCENTAGE OF DEATHS IN HOSPITAL WHERE THE PATIENT HAS BEEN IDENTIFIED AS RECEIVING PALLIATIVE CARE



## BRINGING THE DATA TOGETHER

The trusts listed are either high or low across more than one measure of mortality.

### THE FOLLOWING TRUSTS ARE HIGH ON AT LEAST TWO OF OUR FOUR MAIN MEASURES (AND ARE NOT LOW ON ANY)

Aintree University Hospital NHS Foundation Trust  
Blackpool Teaching Hospitals NHS Foundation Trust  
East Sussex Healthcare NHS Trust  
Heart of England NHS Foundation Trust  
Medway NHS Foundation Trust  
Mid Cheshire Hospitals NHS Foundation Trust  
North Cumbria University Hospitals NHS Trust  
North Tees and Hartlepool NHS Foundation Trust  
Northern Lincolnshire and Goole Hospitals NHS Foundation Trust  
Northumbria Healthcare NHS Foundation Trust  
United Lincolnshire Hospitals NHS Trust  
University Hospitals Birmingham NHS Foundation Trust\*  
West Hertfordshire Hospitals NHS Trust

\* High on three out of four

### OUR MAIN MEASURES ARE:

- HSMR
- SHMI
- Deaths after Surgery
- Deaths in Low-risk Conditions

### THE FOLLOWING TRUSTS ARE LOW ON TWO OR MORE OF OUR FOUR MAIN MEASURES (AND ARE NOT HIGH ON ANY)

Barnet and Chase Farm Hospitals NHS Trust  
Barts Health NHS Trust  
Cambridge University Hospitals NHS Foundation Trust  
Chelsea and Westminster Hospital NHS Foundation Trust\*  
Frimley Park Hospital NHS Foundation Trust\*  
Guy's and St Thomas' NHS Foundation Trust\*\*  
Imperial College Healthcare NHS Trust  
James Paget University Hospitals NHS Foundation Trust  
Leeds Teaching Hospitals NHS Trust  
North Middlesex University Hospital NHS Trust\*  
North West London Hospitals NHS Trust  
Northern Devon Healthcare NHS Trust  
Royal Free London NHS Foundation Trust  
Salford Royal NHS Foundation Trust  
Sheffield Teaching Hospitals NHS Foundation Trust  
St George's Healthcare NHS Trust  
The Whittington Hospital NHS Trust  
University College London Hospitals NHS Foundation Trust  
University Hospitals Bristol NHS Foundation Trust  
West Suffolk NHS Foundation Trust

\* Low on three out of four  
\*\* Low on all four



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