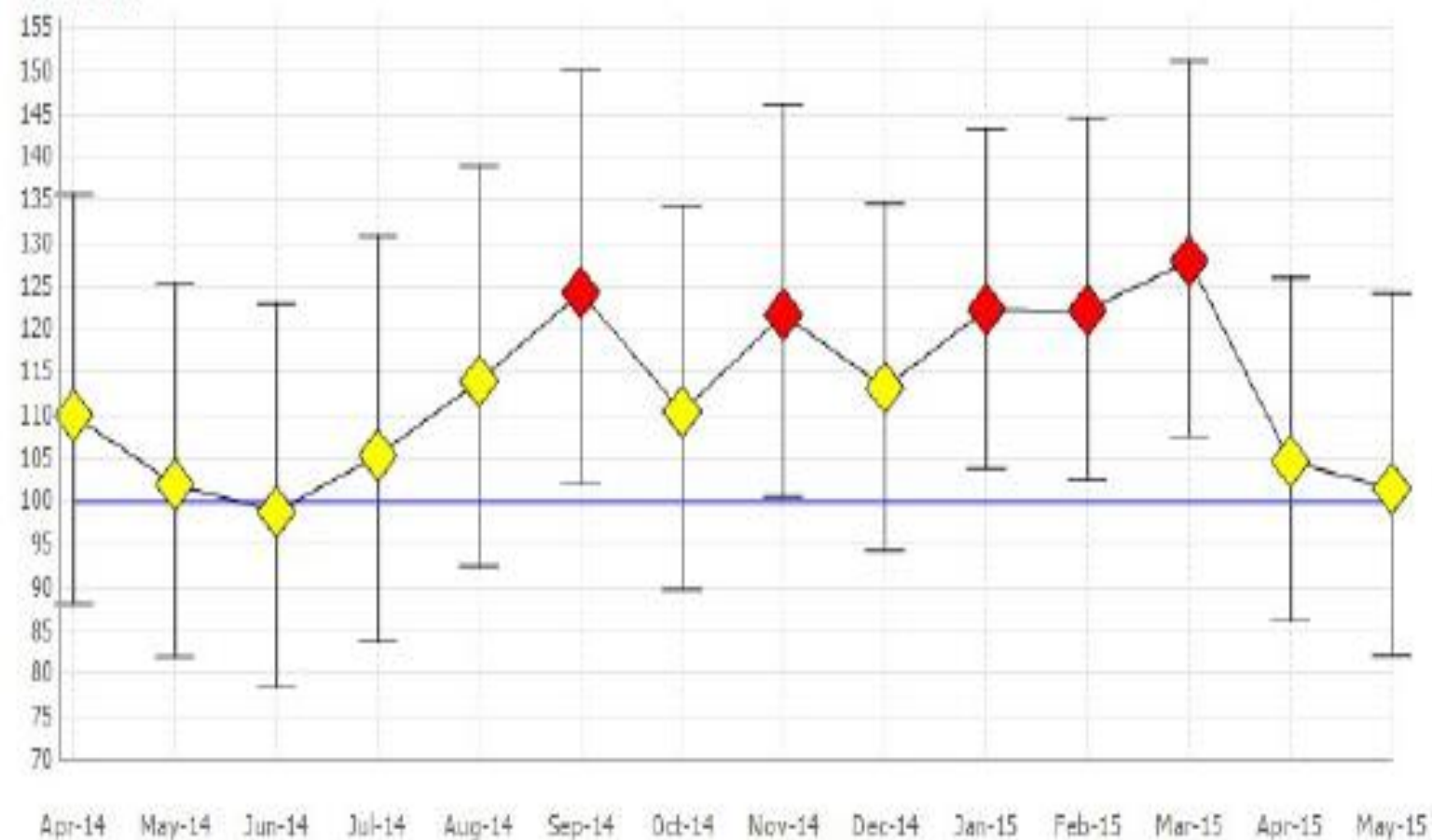


DEATH RATES

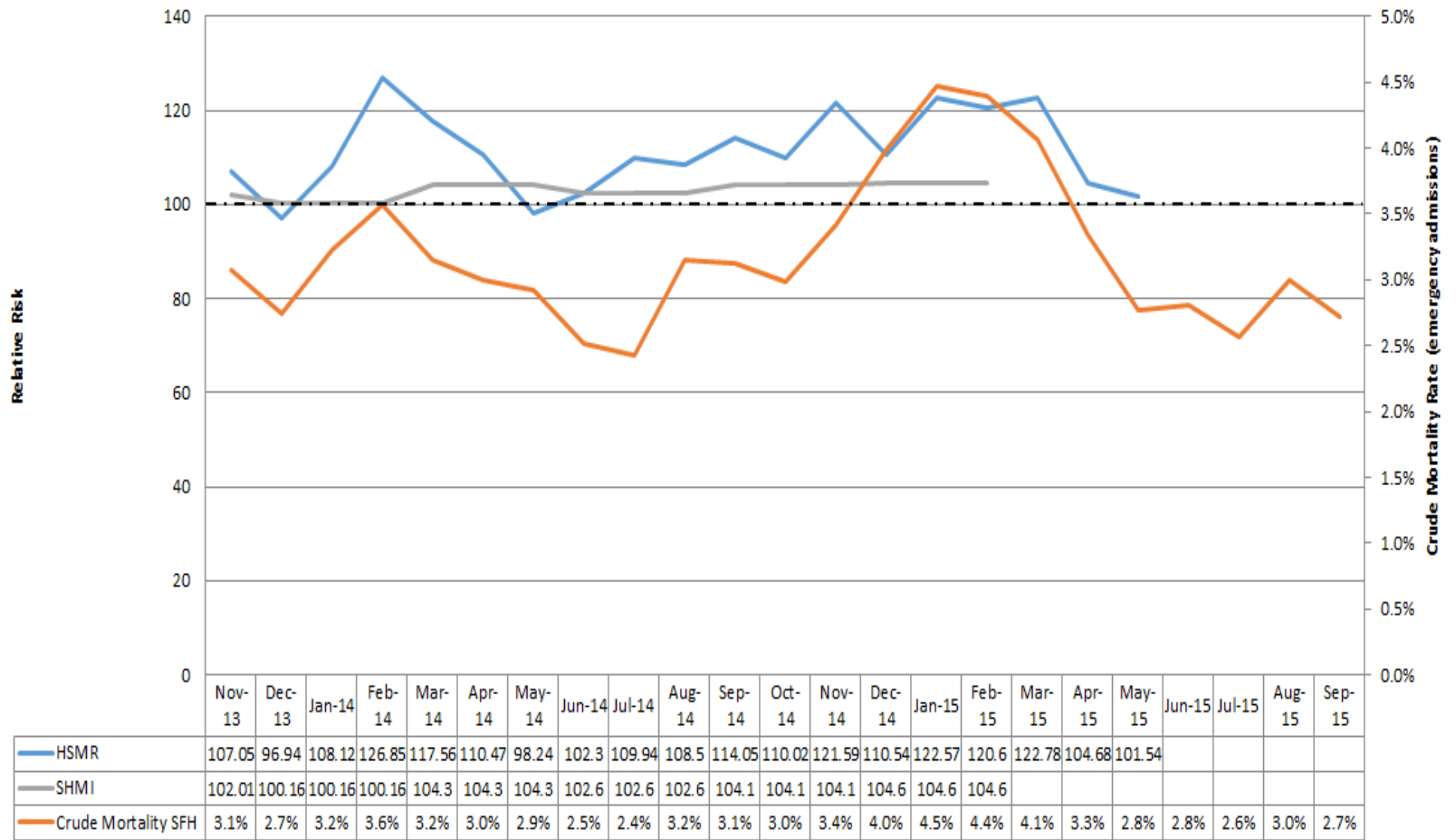
WHERE ARE WE CURRENTLY ?

High relative risk Low relative risk Expected Range Undefined National benchmark Confidence Intervals

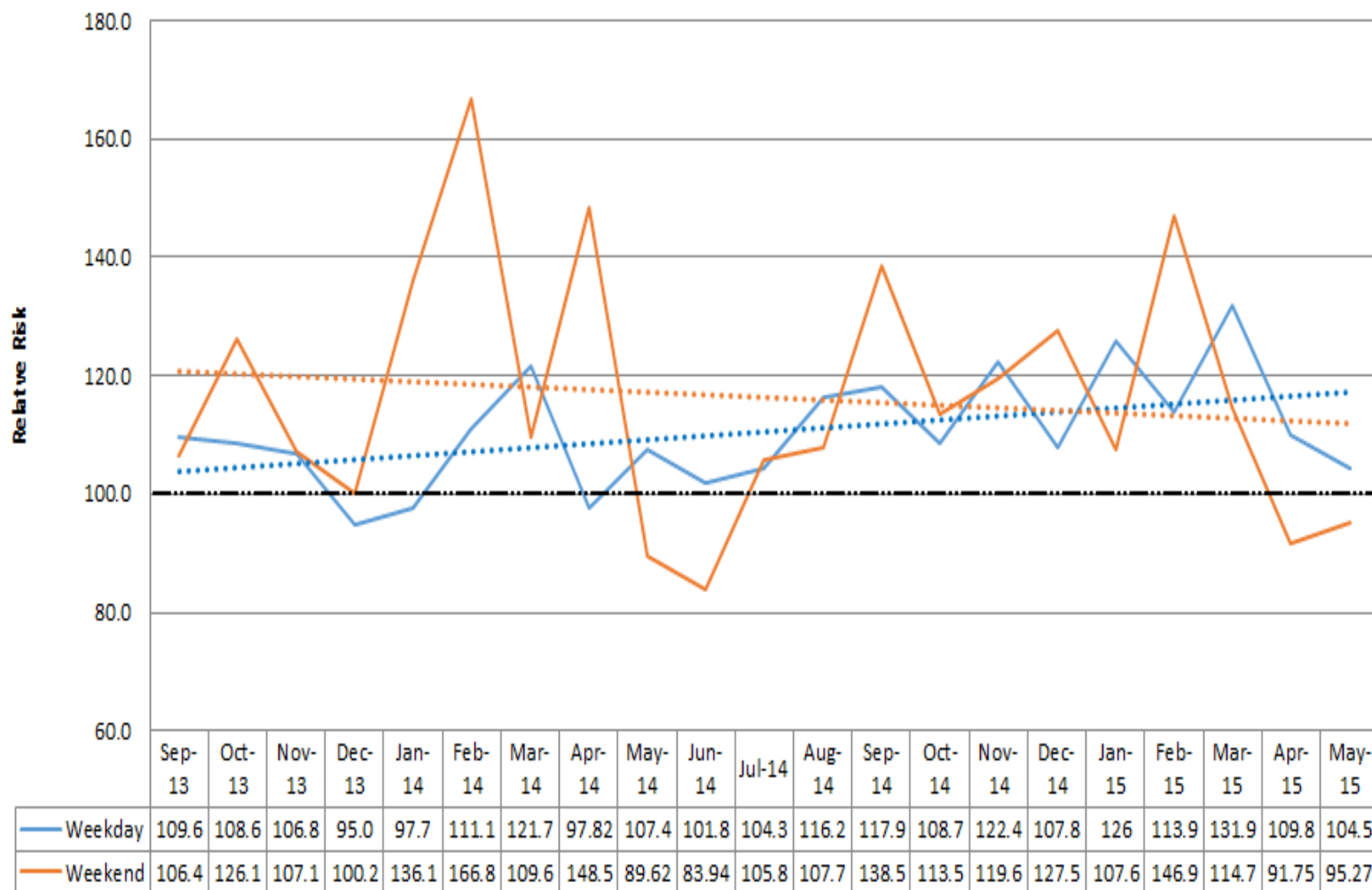
Relative Risk

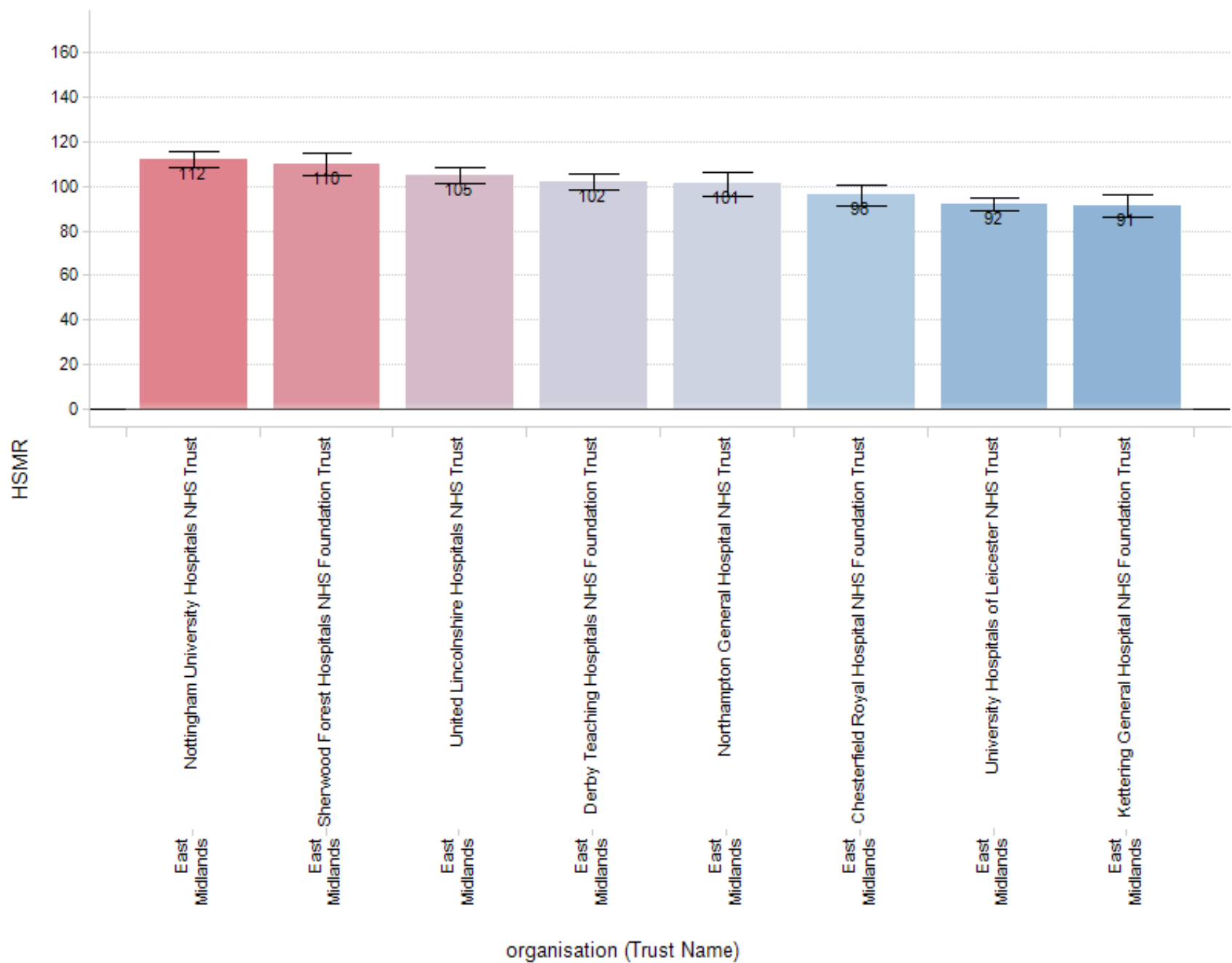


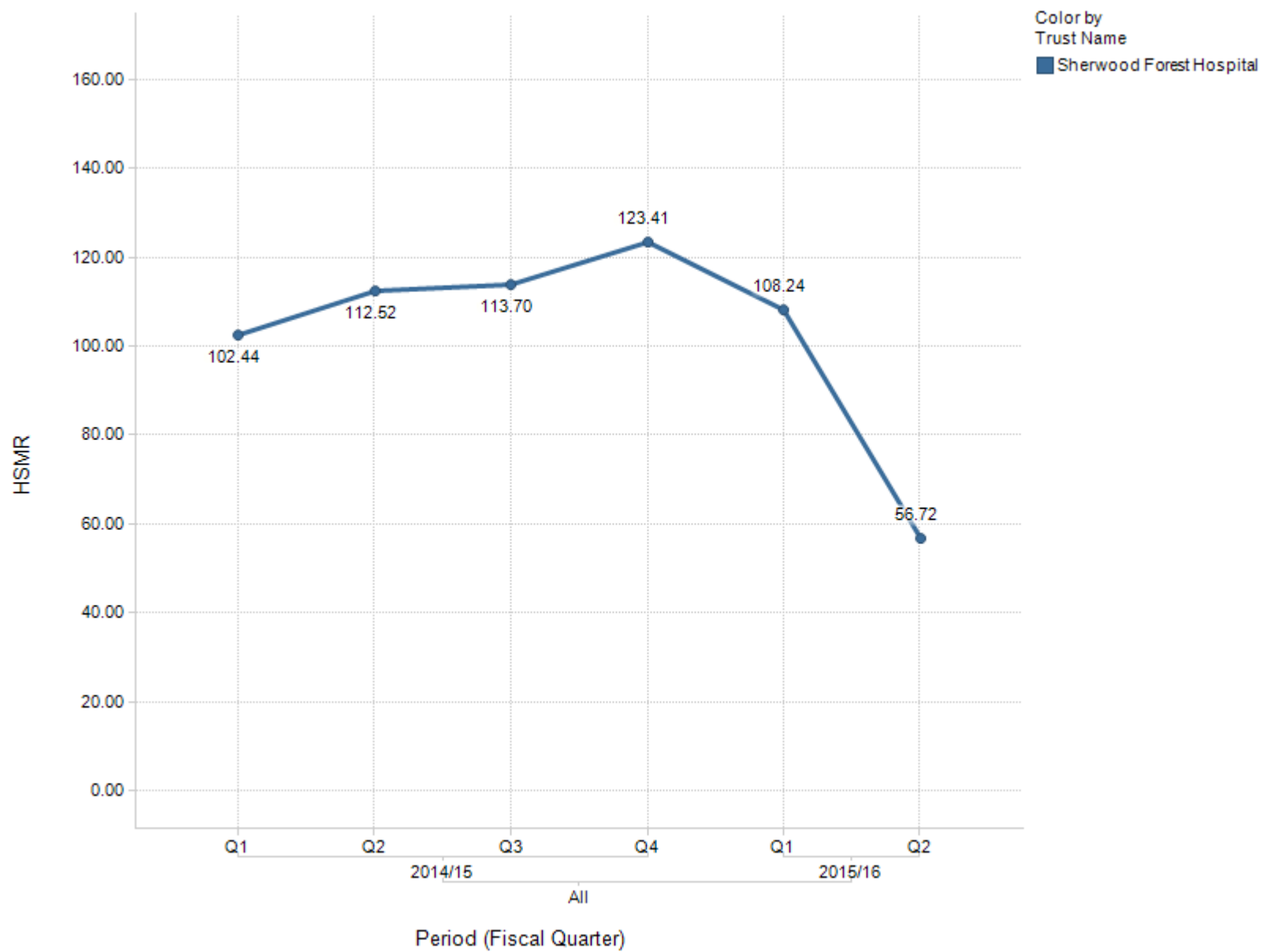
SFH - HSMR, SHMI & Crude Mortality Trend

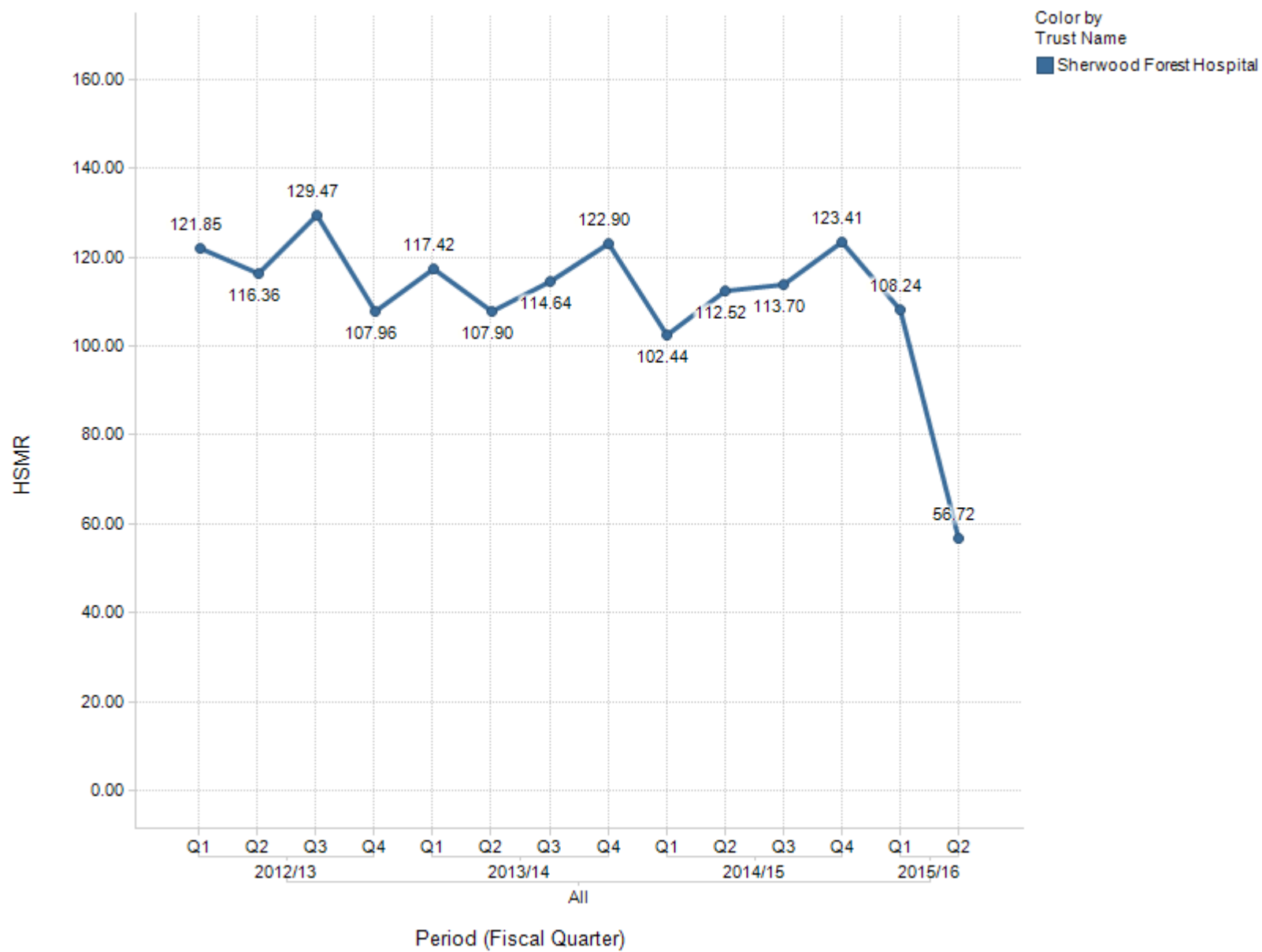


SFH Mortality Weekend V Weekday Admissions





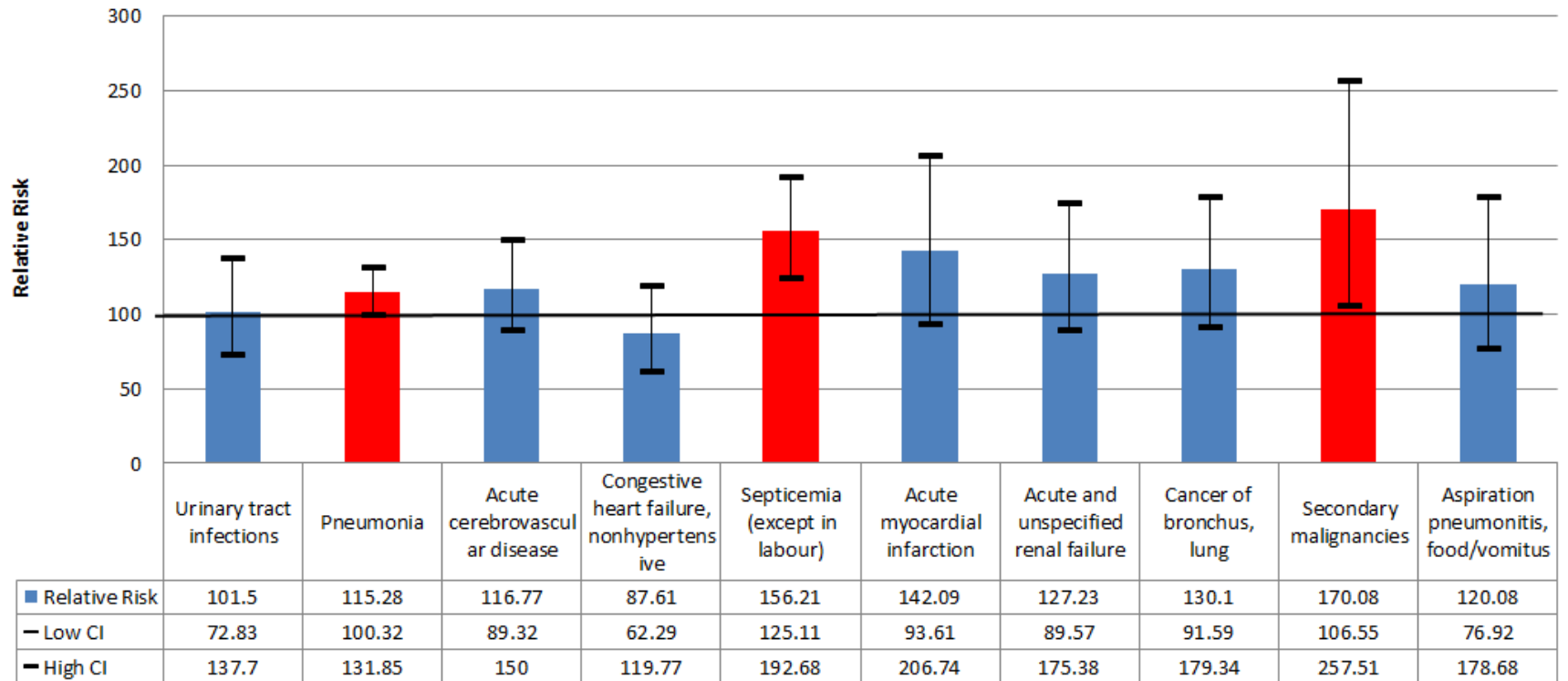




DEATH RATES

WHERE HAVE WE BEEN ?

Safety Alert Top 10 Diagnosis Groups



Data from Dr Foster Quality Investigator

Increased Observed Deaths (may be avoidable)

Reduced Expected Deaths

Comorbidity coding

Palliative Care coding

Inaccurate primary diagnosis

Excess uncoded episodes



HSMR



July: Mortality Review (n=88)

No unexpected deaths
No clinical concerns
All received daily review
Mon-Fri and minimum
Consultant review x2 weekly

Sepsis Dr Foster Alert Jul-Dec 2014 (n=65)

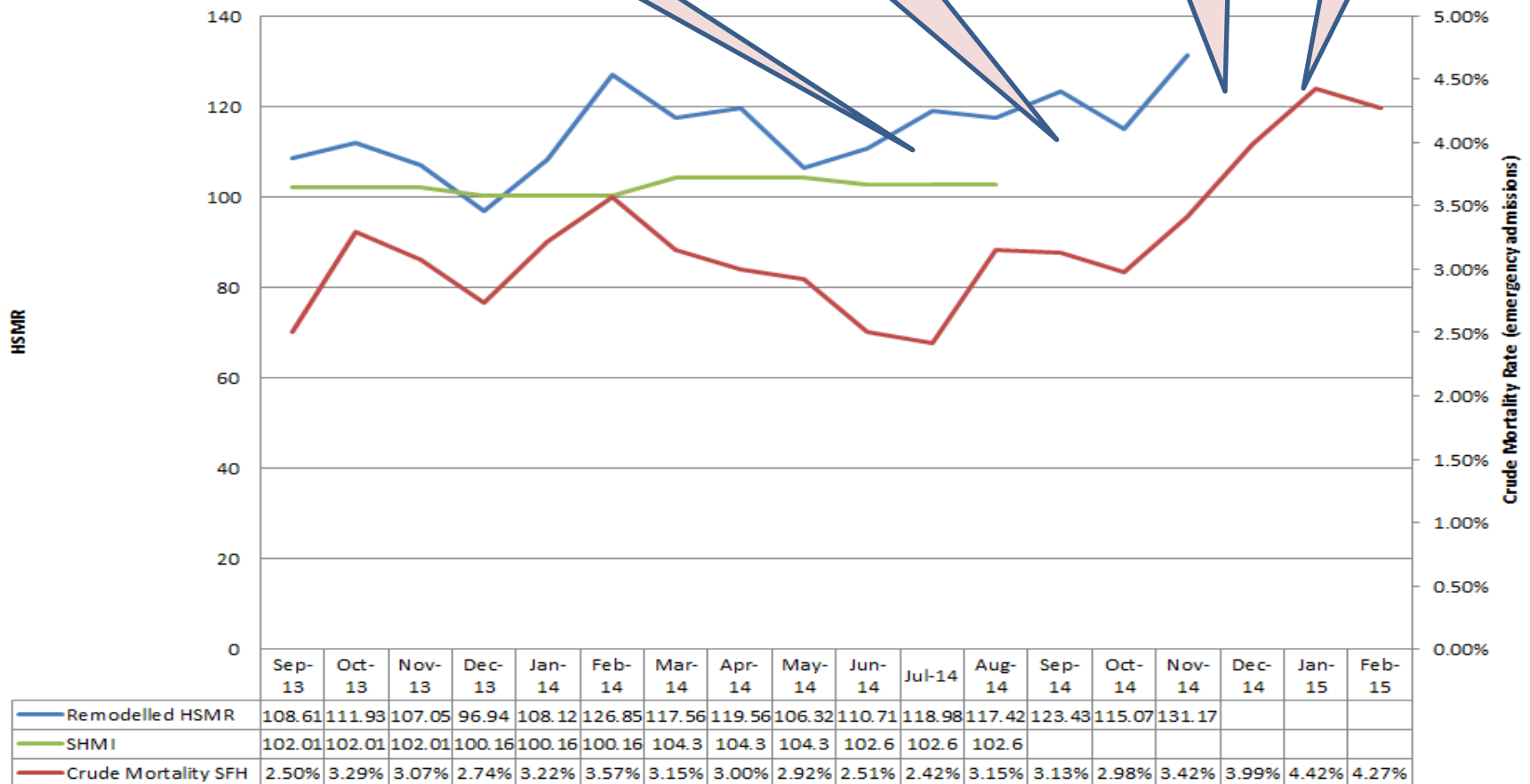
Mortality reviews (n=40)
2 not sepsis, 4 already investigated as SI's
14 moribund on admission
Good sepsis care in 28
2 cases no O2 and 6 delayed Abs (>1 but < 3hrs)
15 EoL at admission, 15 admitted from care and 13 end stage cancer

GI Endoscopy Dr Foster Alert

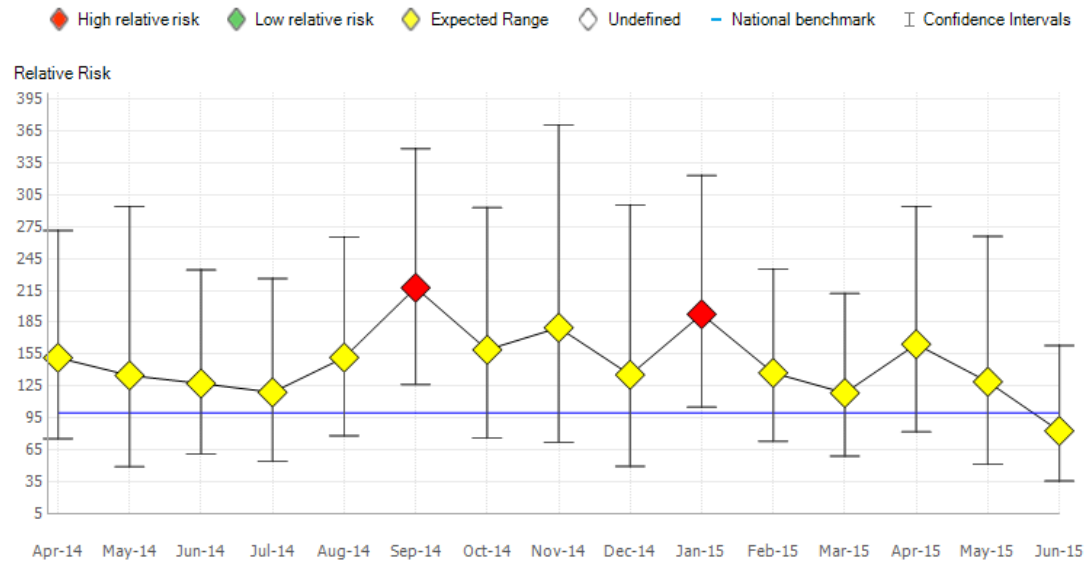
18 patients Sep13-Aug14
11 for GI Bleeding, 5 of which were catastrophic
2 to bypass obstructing cancer
3 to insert feeding tubes in frail patients
No deaths related to the procedures and no avoidable deaths

Dec-Jan: Mortality Review (n=87)

No unexpected deaths
No clinical concerns
All received appropriate clinical review

SFH - HSMR, SHMI & Crude Mortality Trend

SEPSIS

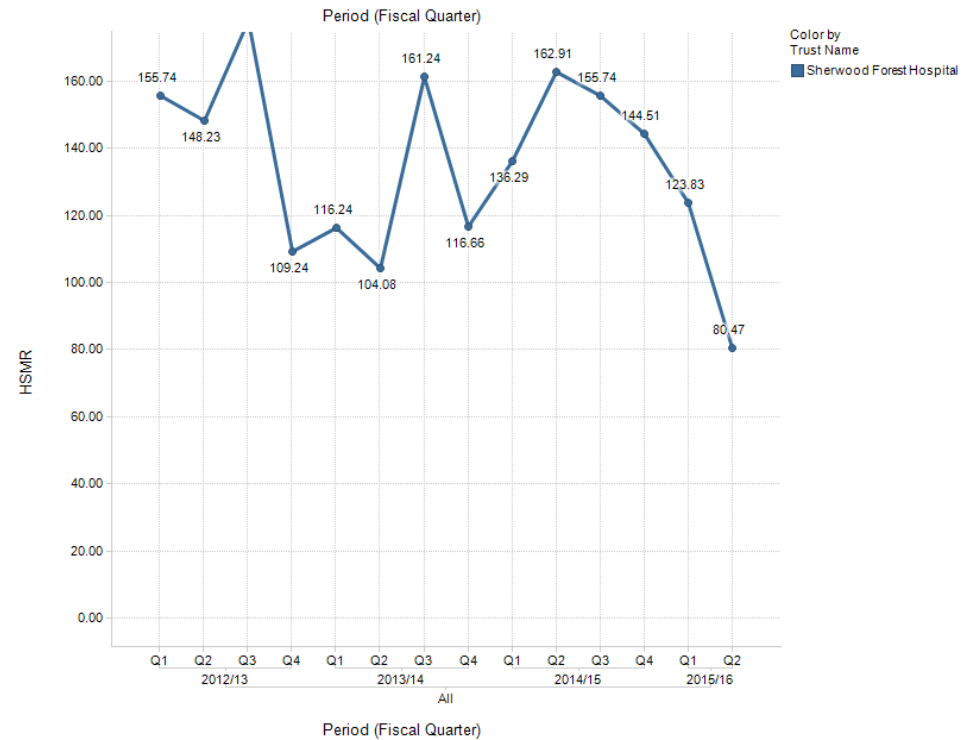
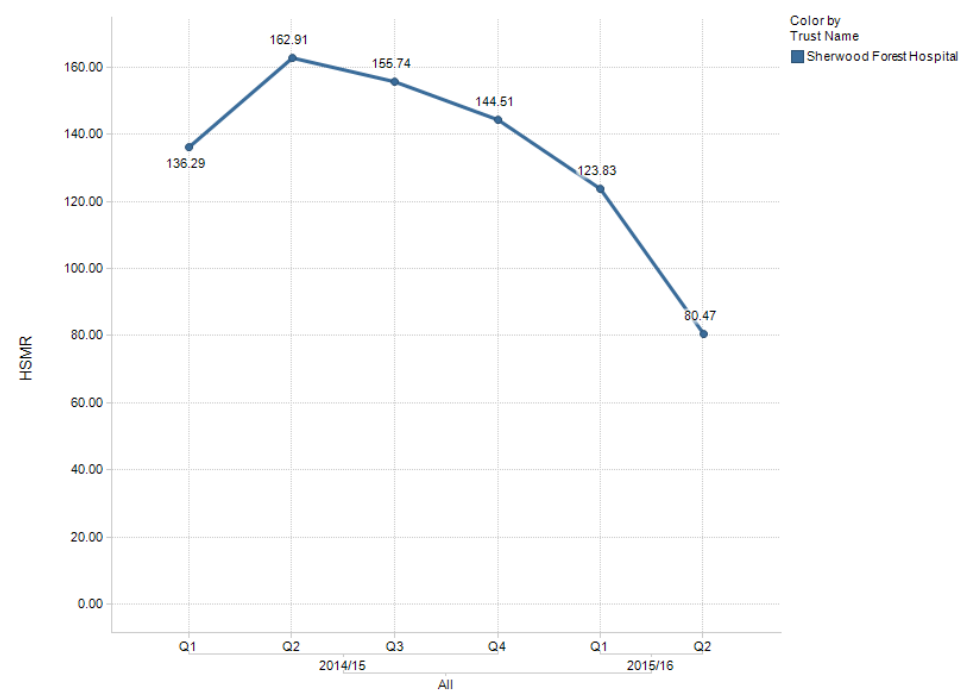
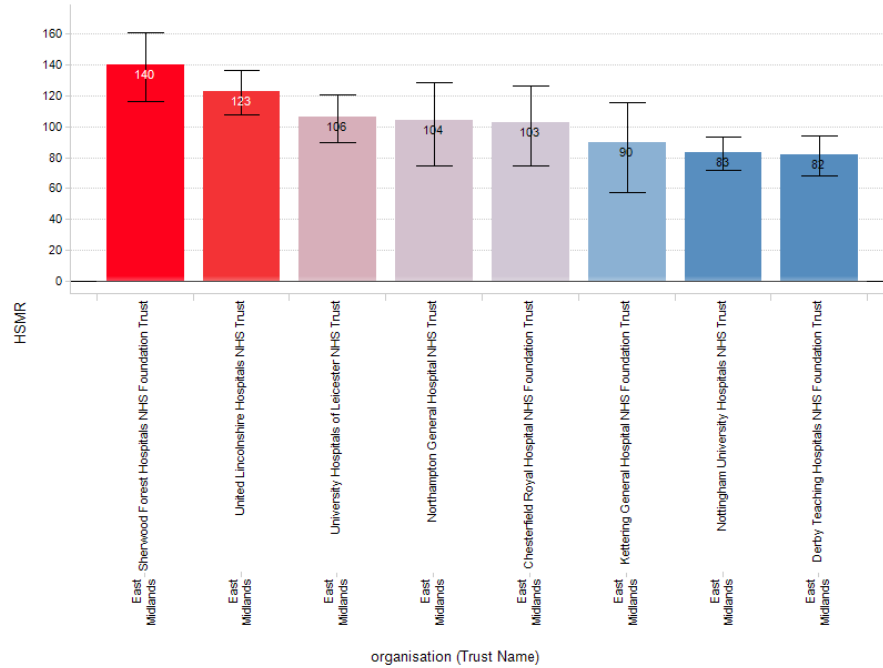


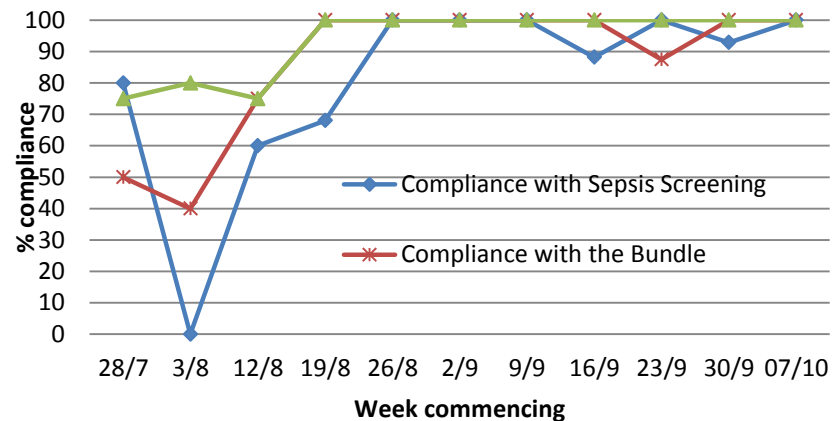
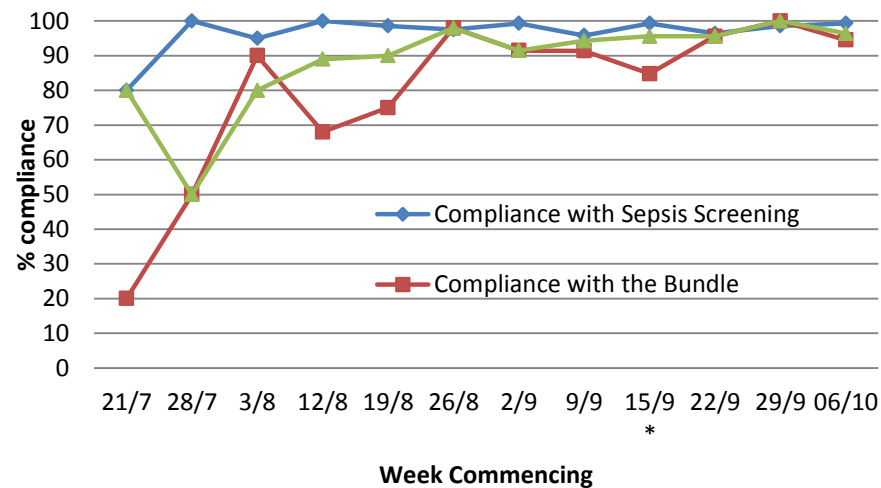
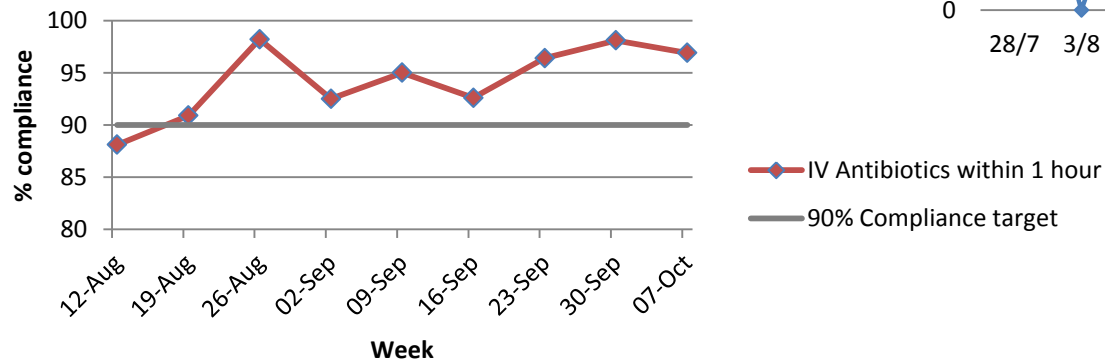
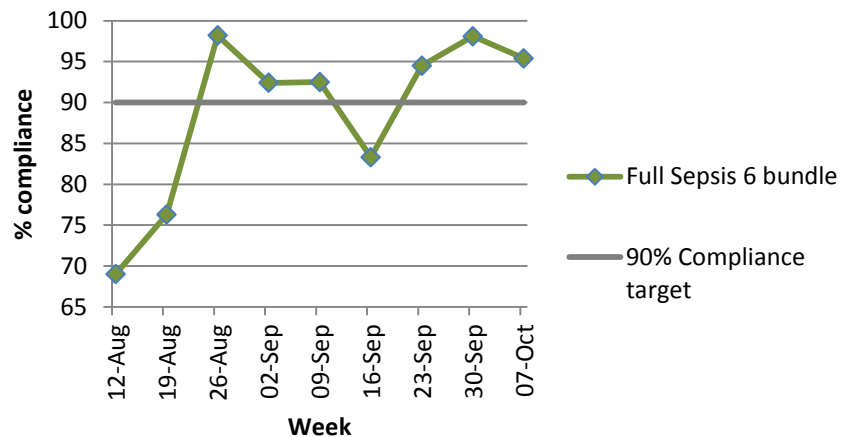
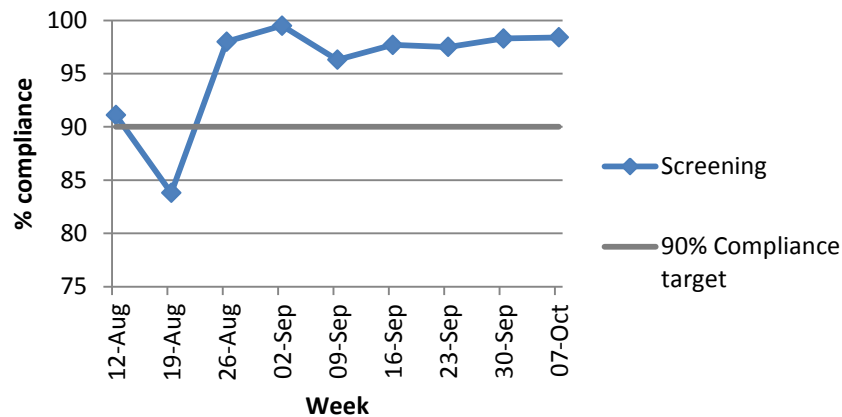
Over 2014, there were 96 sepsis deaths against an expected of 63 and in the first quarter of 2015, 38 against 28 expected. The number of deaths per month is therefore less than 10 which makes for wide statistical variation. However, the number of deaths increased in the Autumn of 2014 and was significantly elevated in September. We have performed case note reviews from April 2014 to March 2015 (the latest Dr Foster data available).

Findings:

- The average age of patients was 80yrs with 23% 90+, 60% 80+ and only 6% less than 60
- In these patients 72% received the Sepsis Six bundle which means just under a third of cases did not
- There were 3 cases where suboptimal care contributed to a potentially avoidable death. These were all between April and September 2014 and since that date there has only been 1 case. These cases had already been investigated as Serious Incidents
- Some 60% of cases were considered at the end of life due to additional problems such as dementia, cancer or multiple medical problems

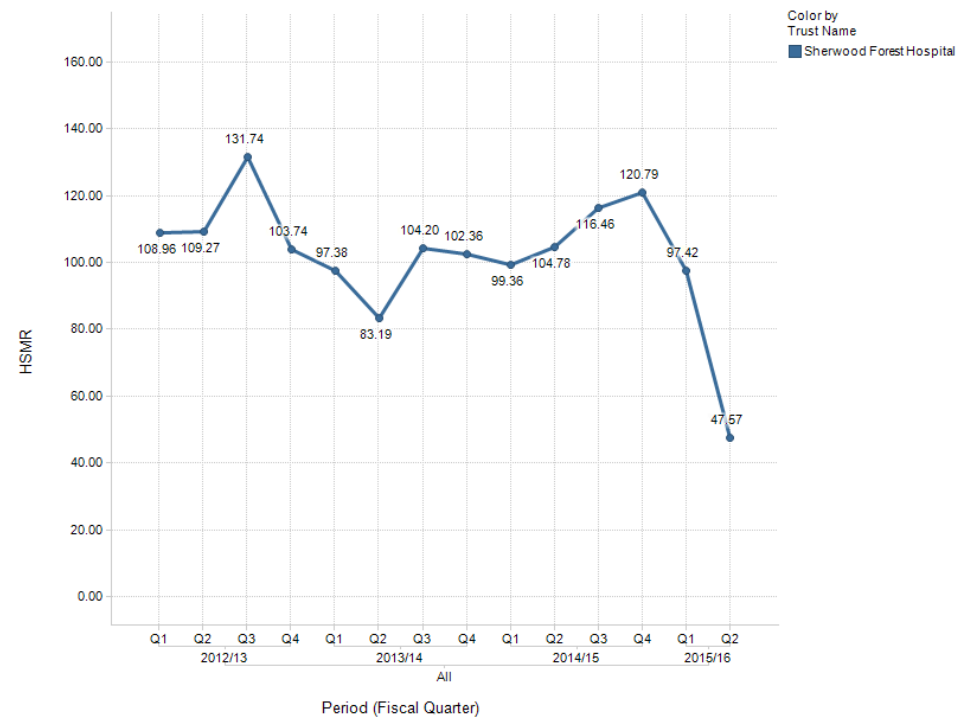
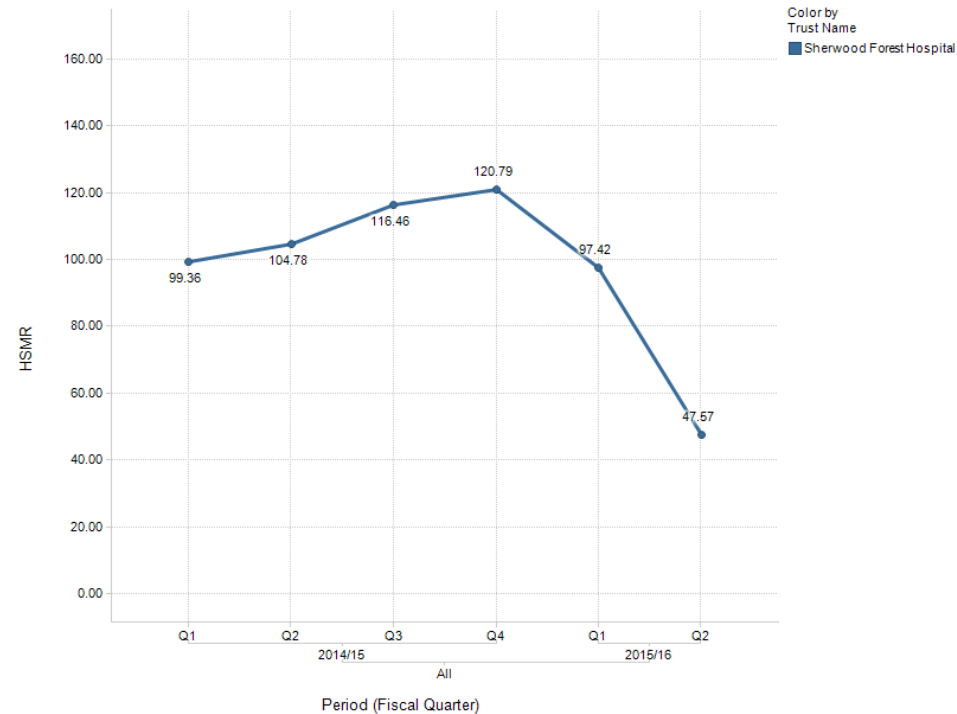
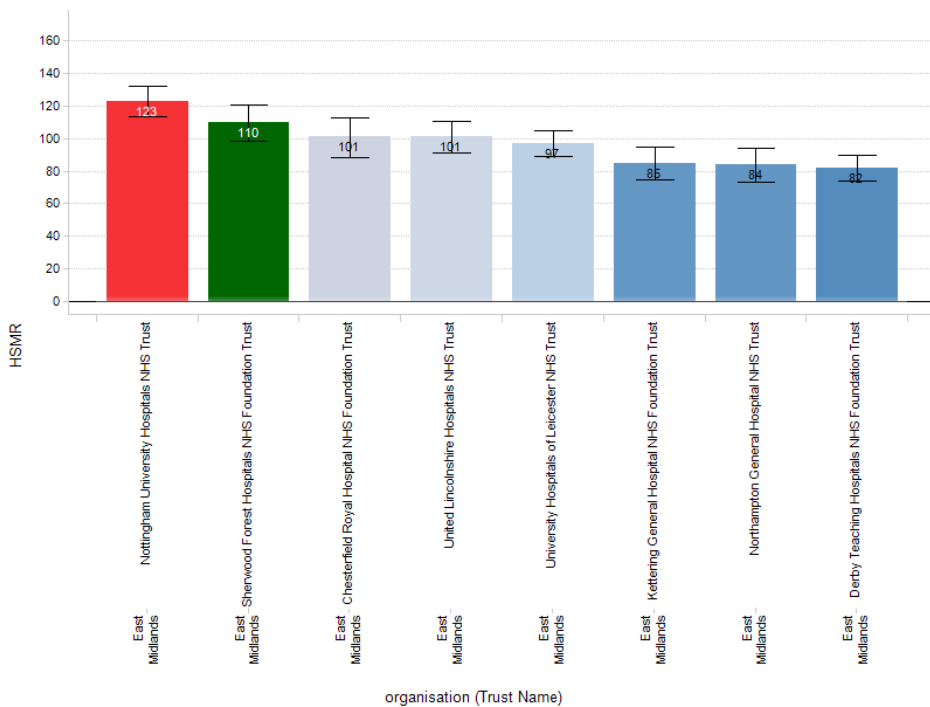
SEPSIS



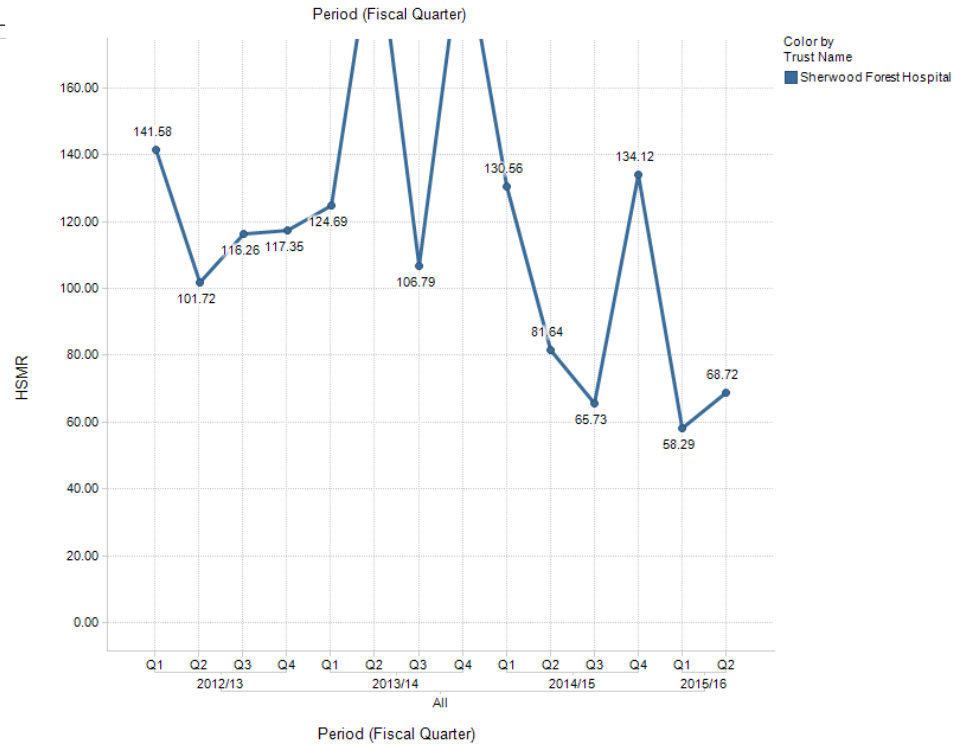
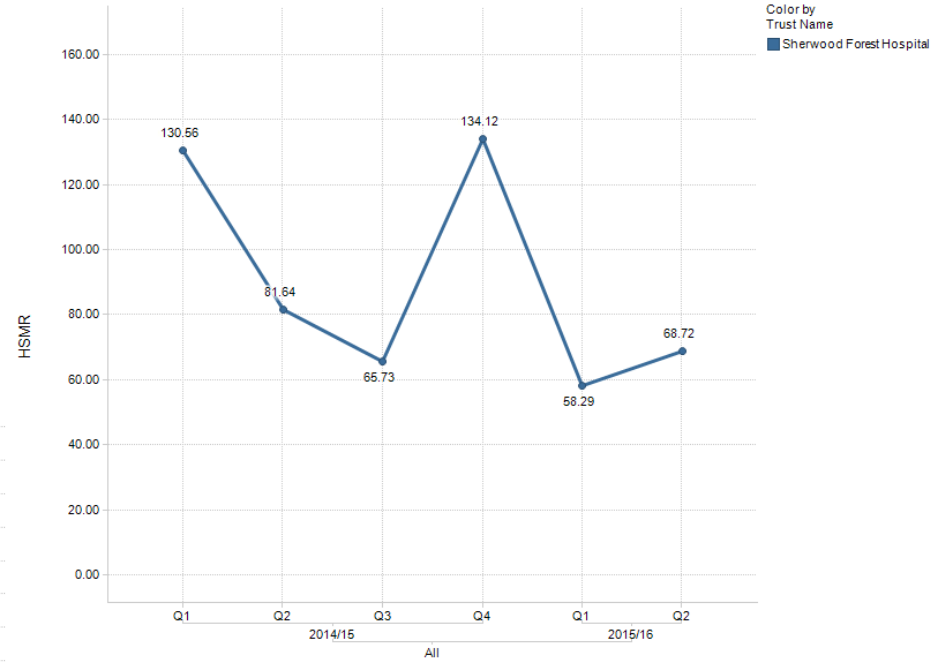
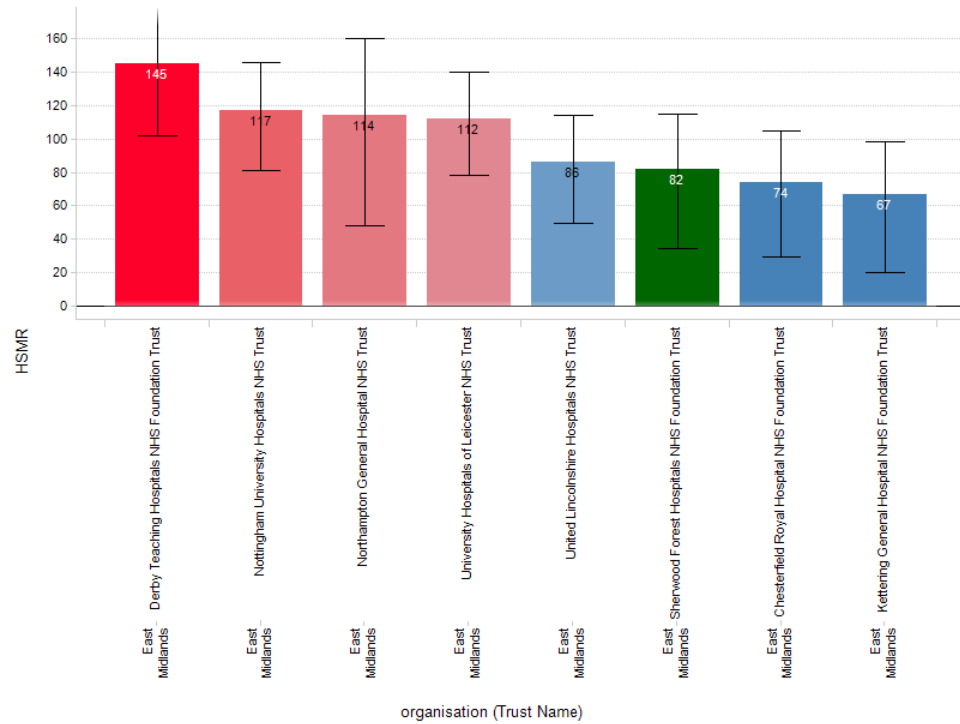


PATHWAYS

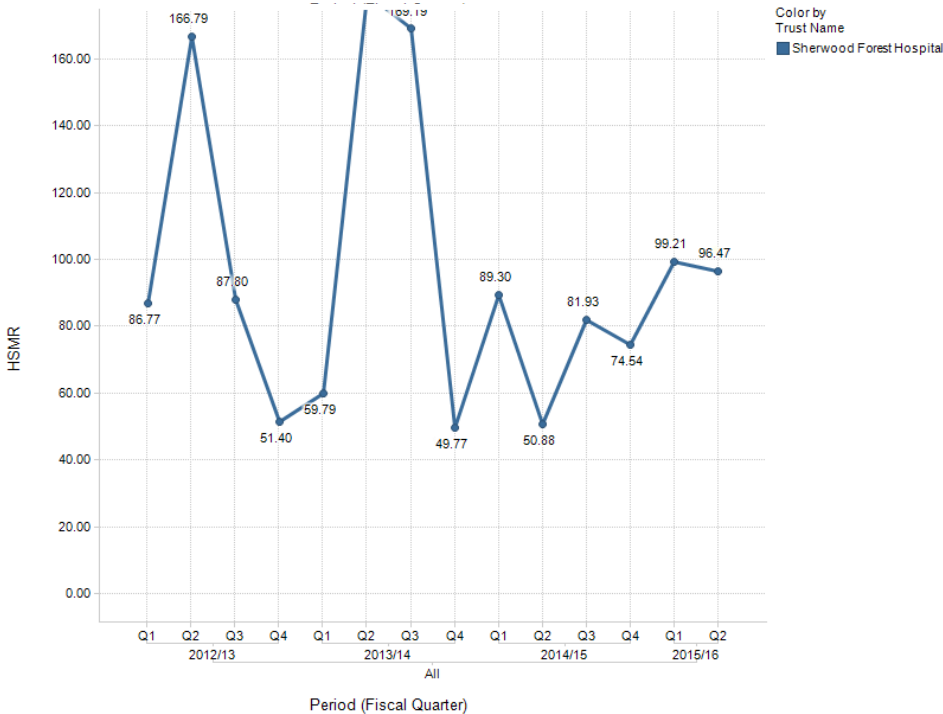
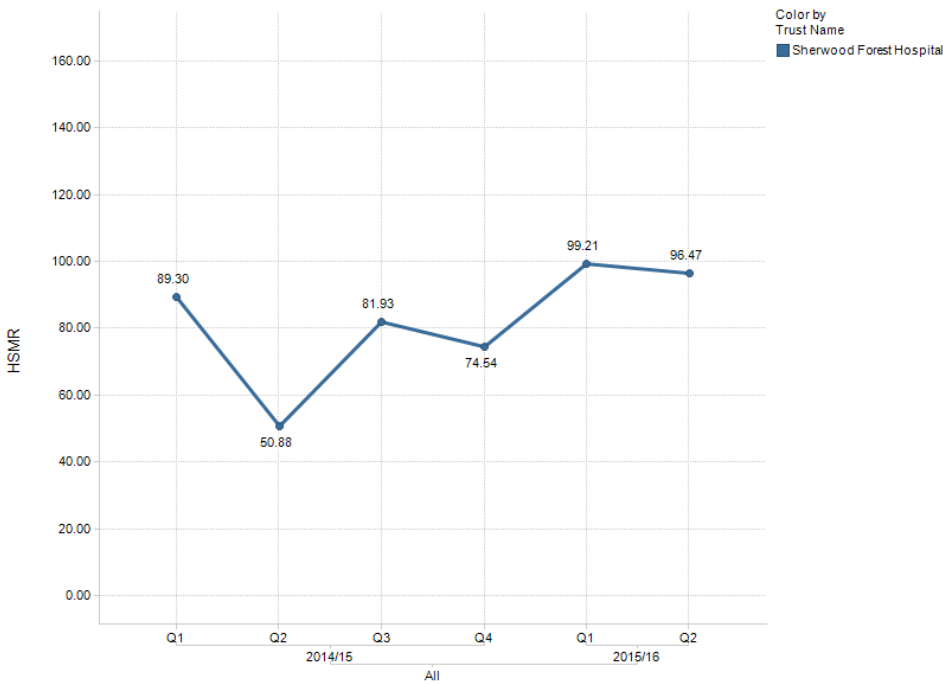
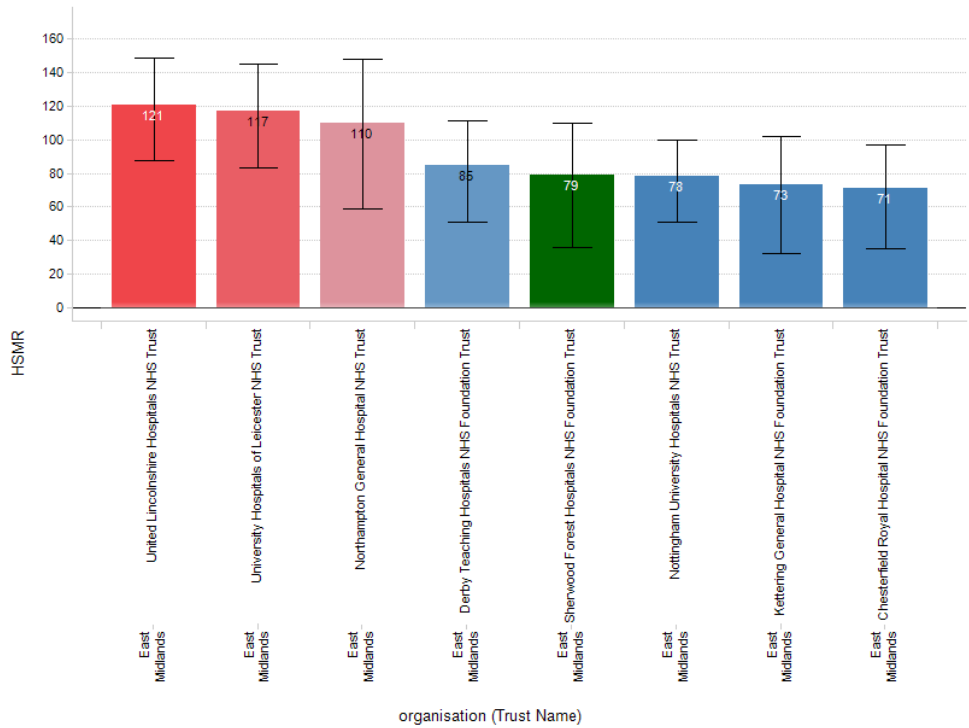
PNEUMONIA



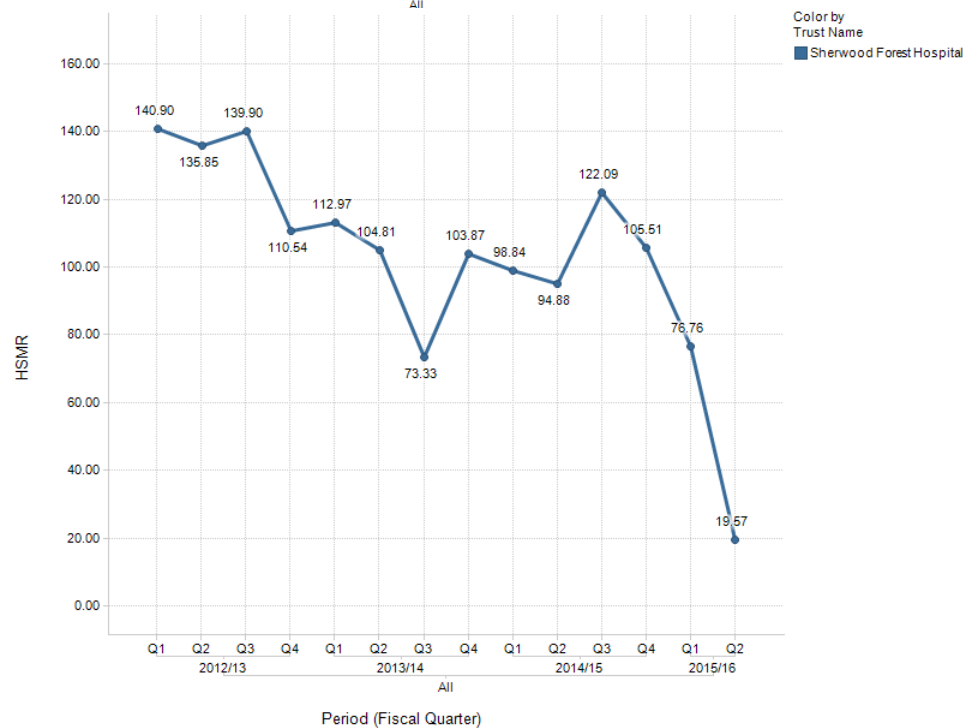
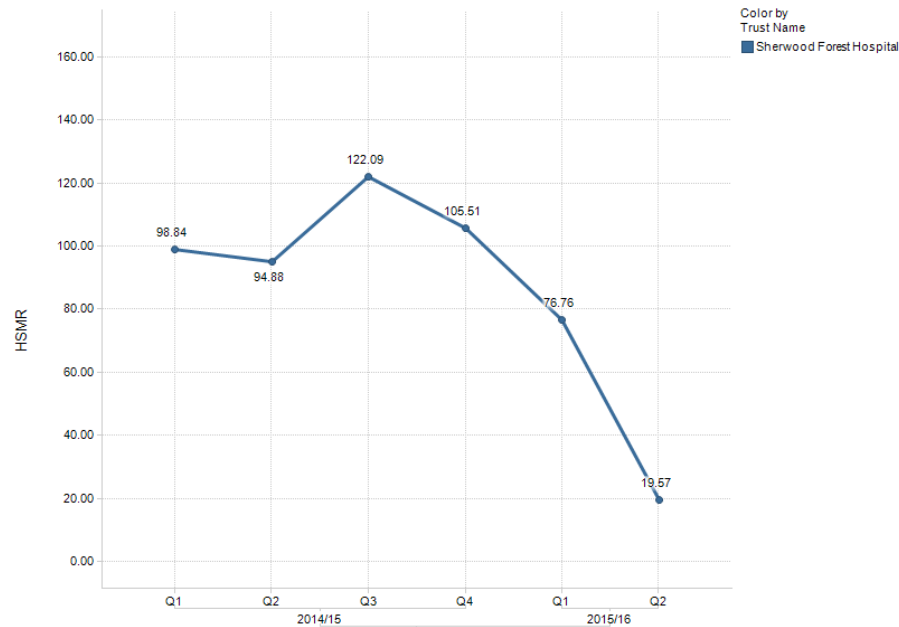
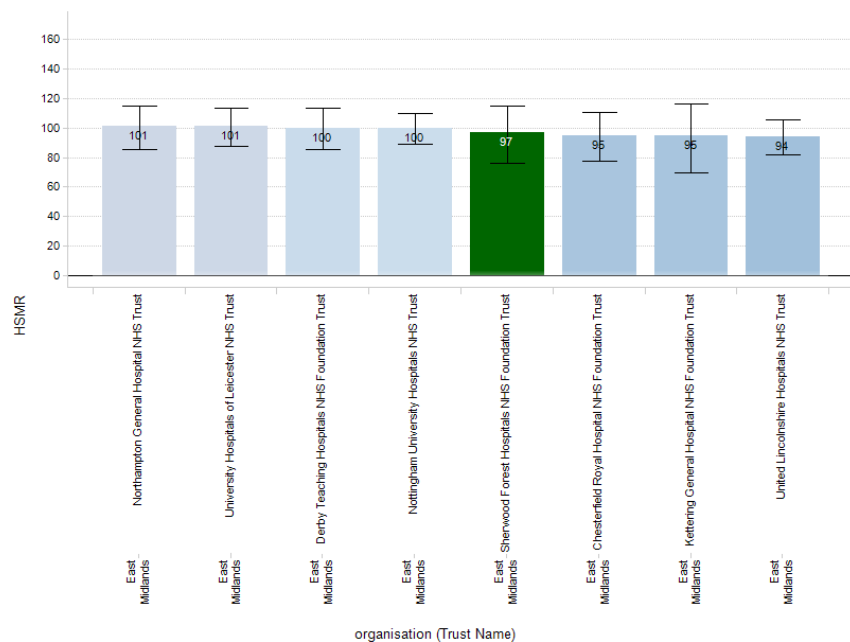
GI BLEED



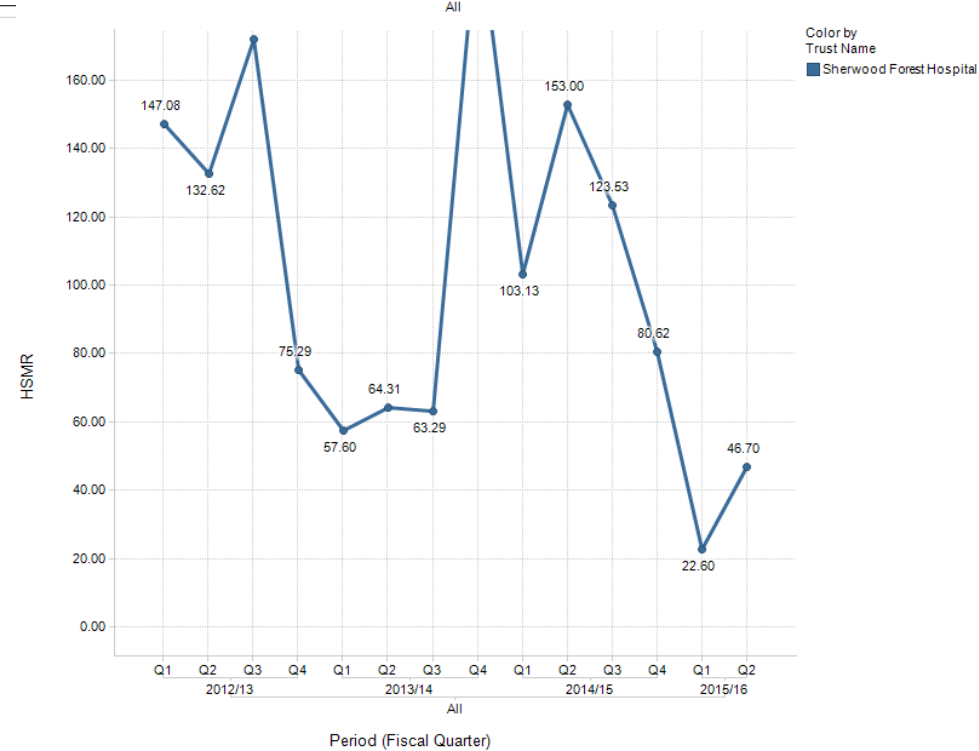
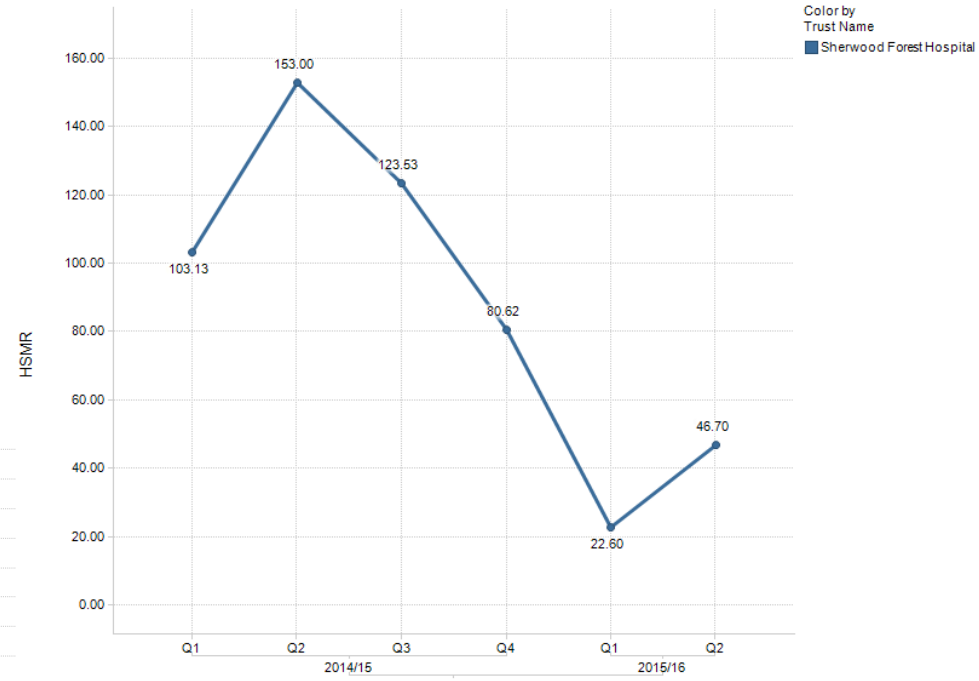
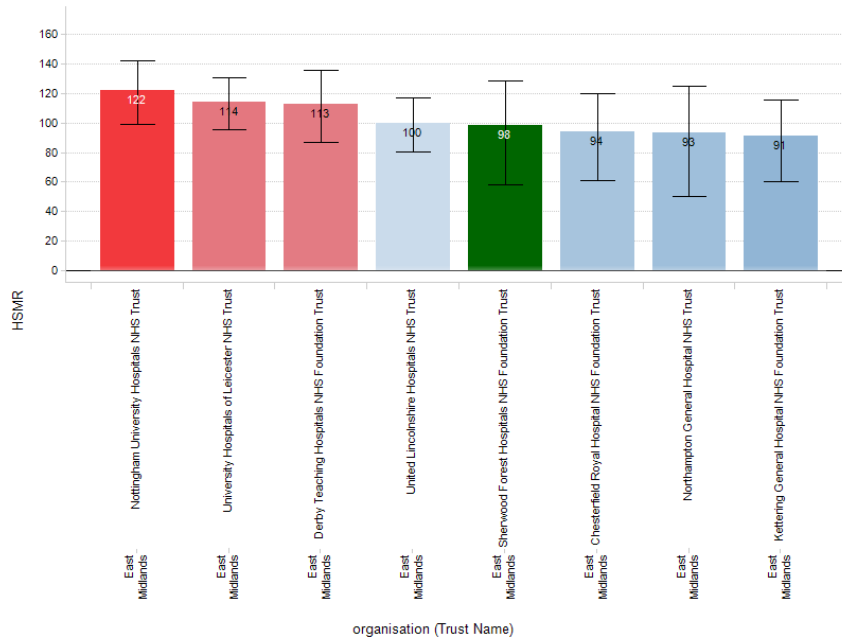
BROKEN HIPS



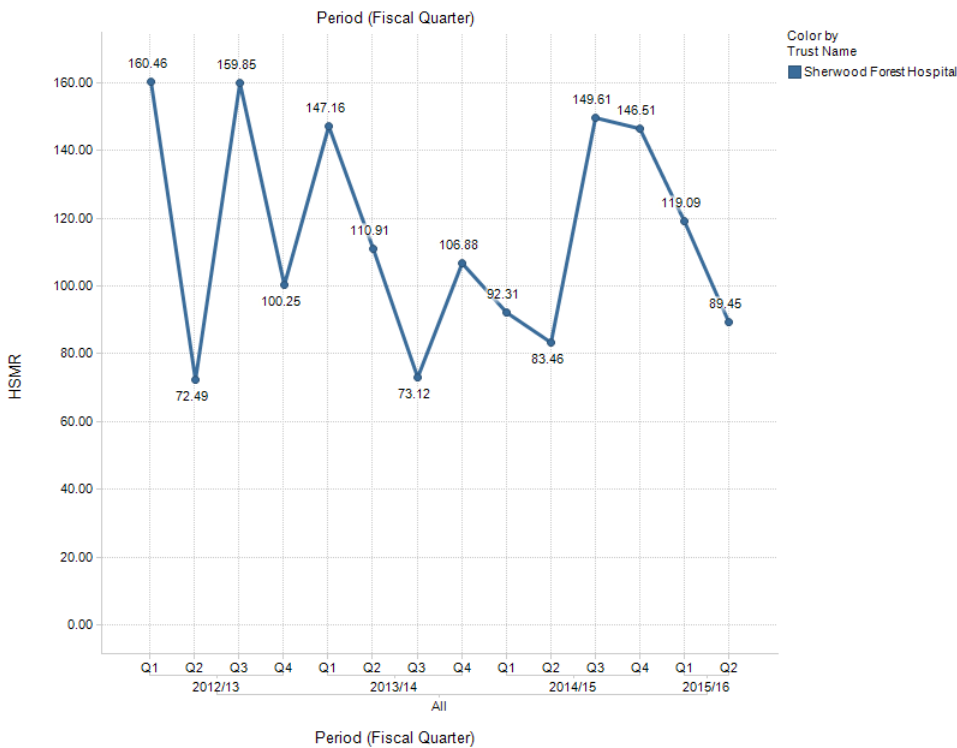
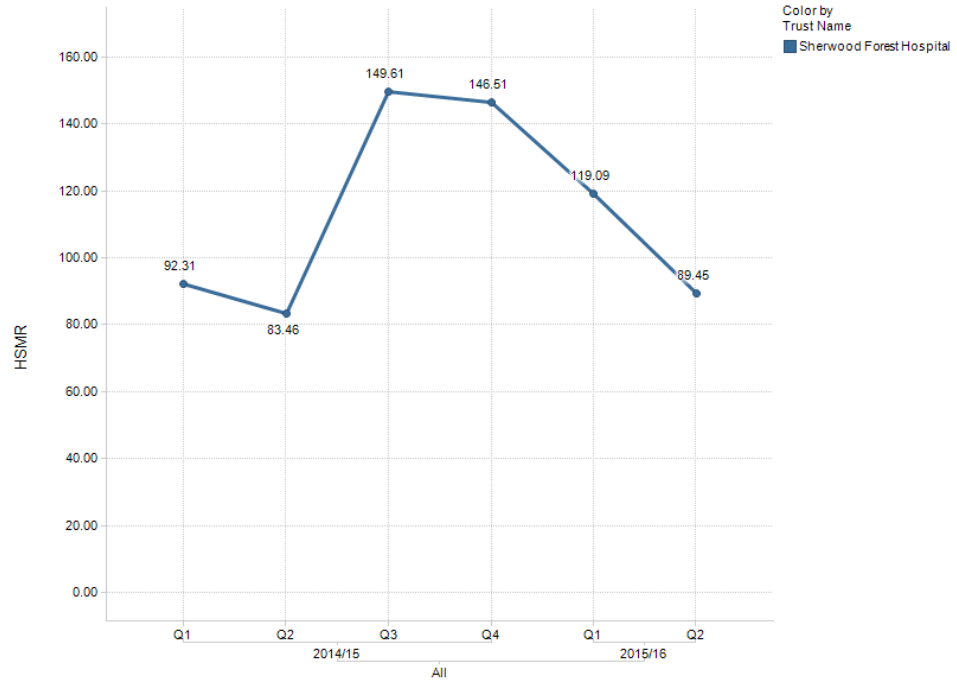
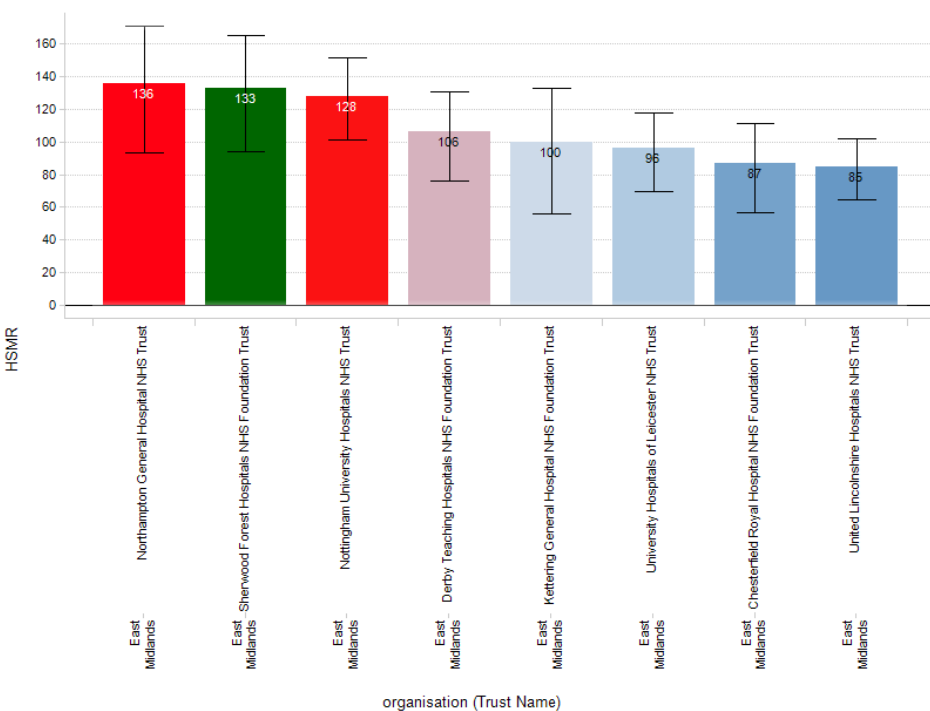
STROKE



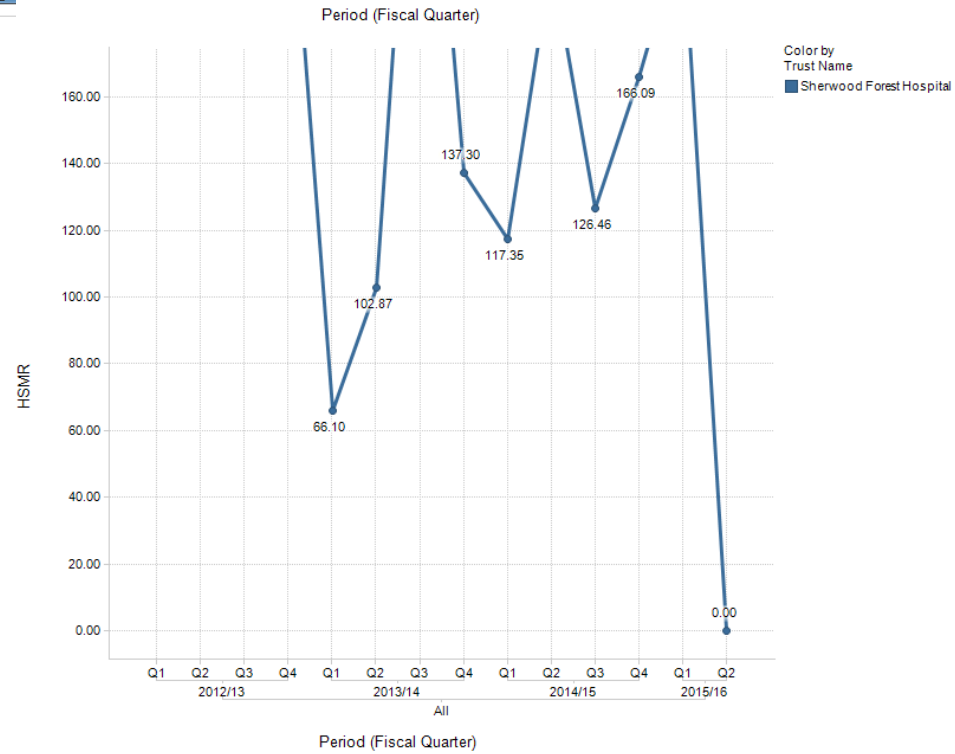
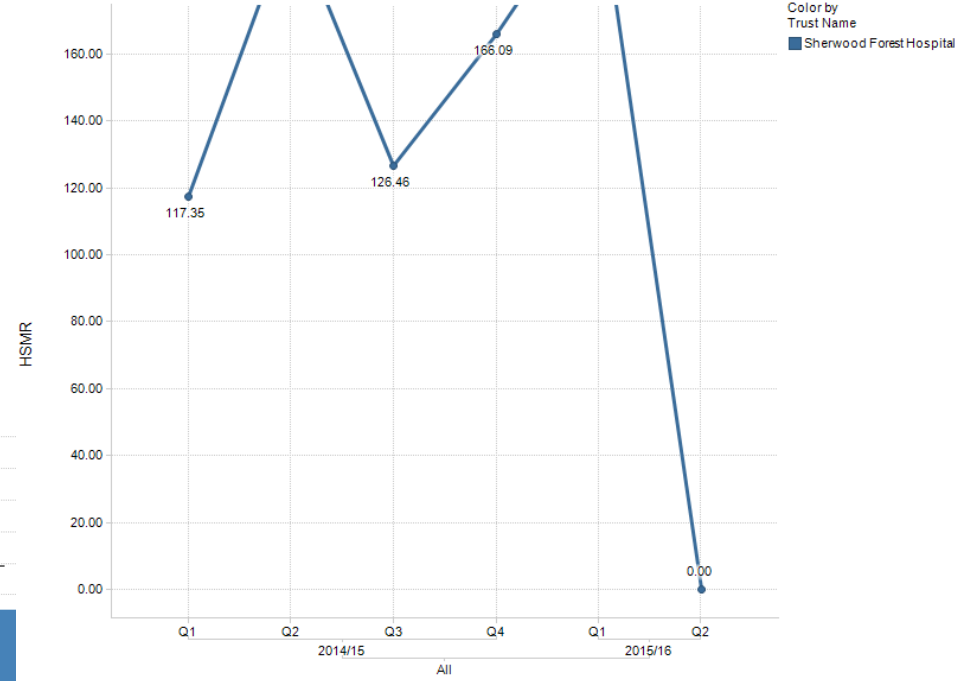
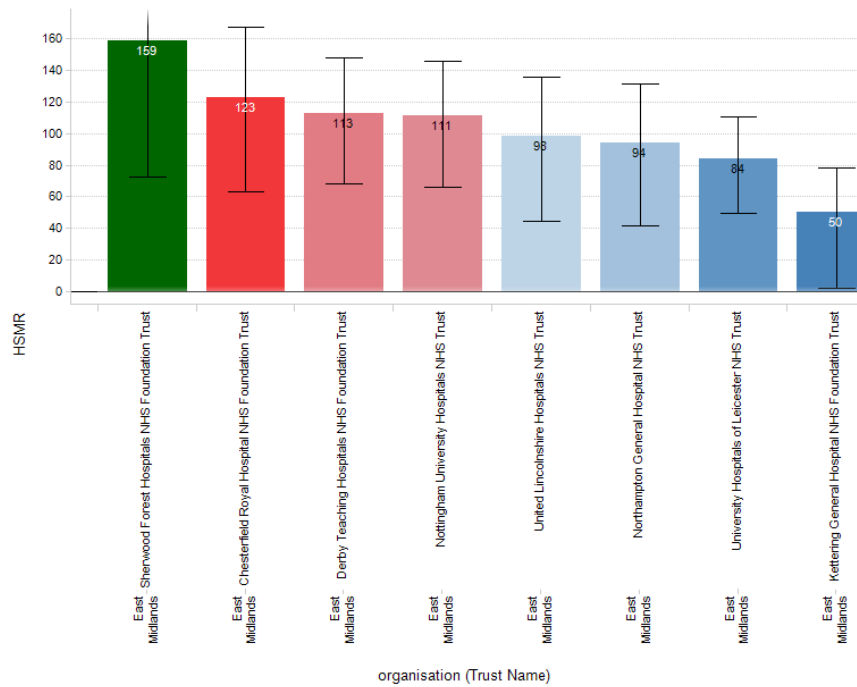
HEART ATTACK



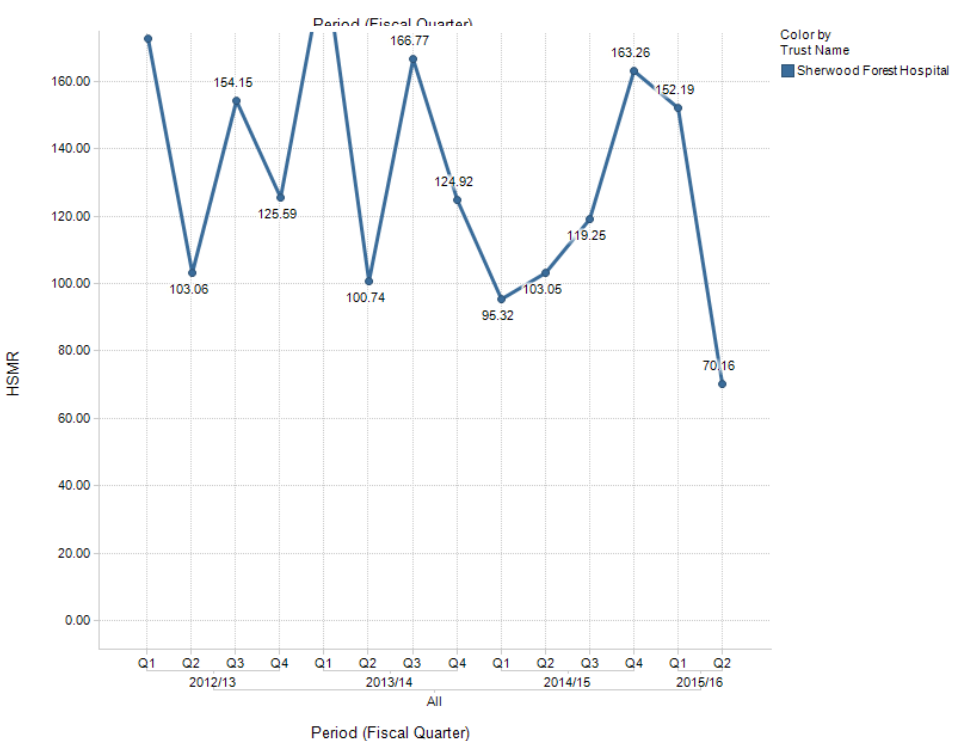
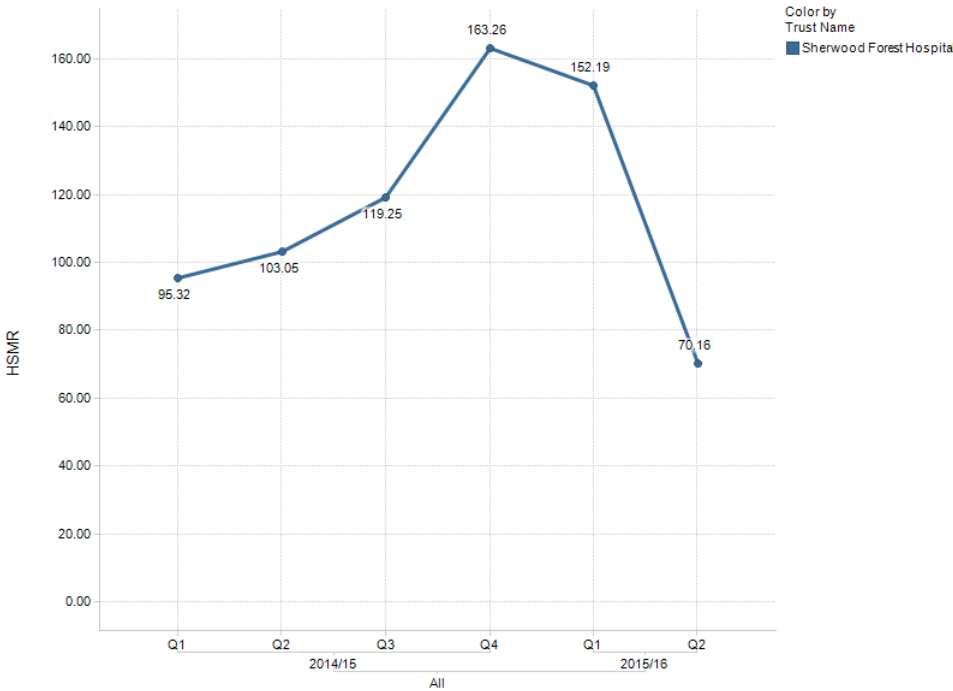
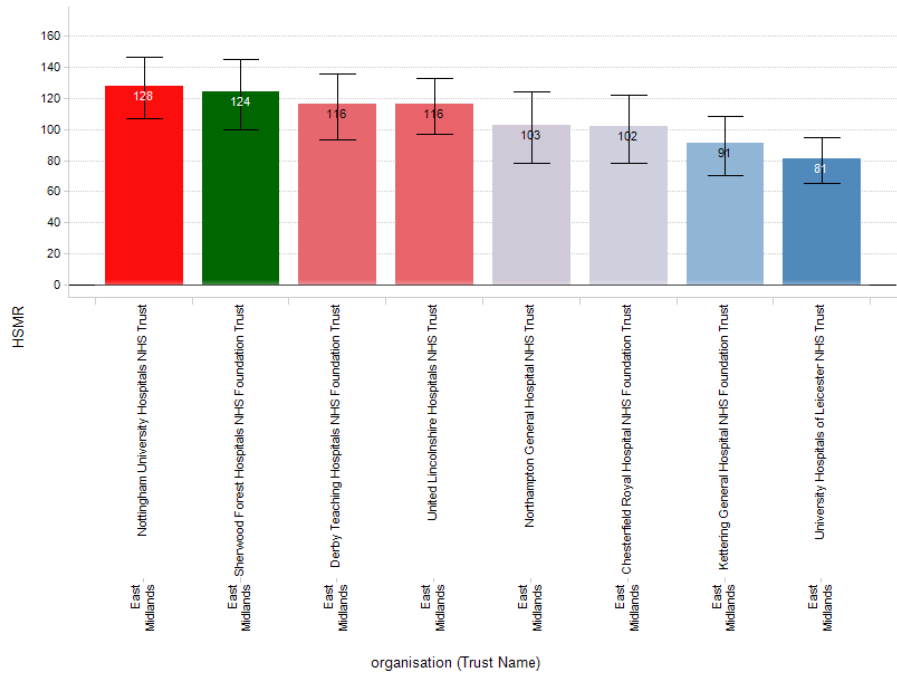
ACUTE KIDNEY INJURY



FLUID AND ELECTROLYTE



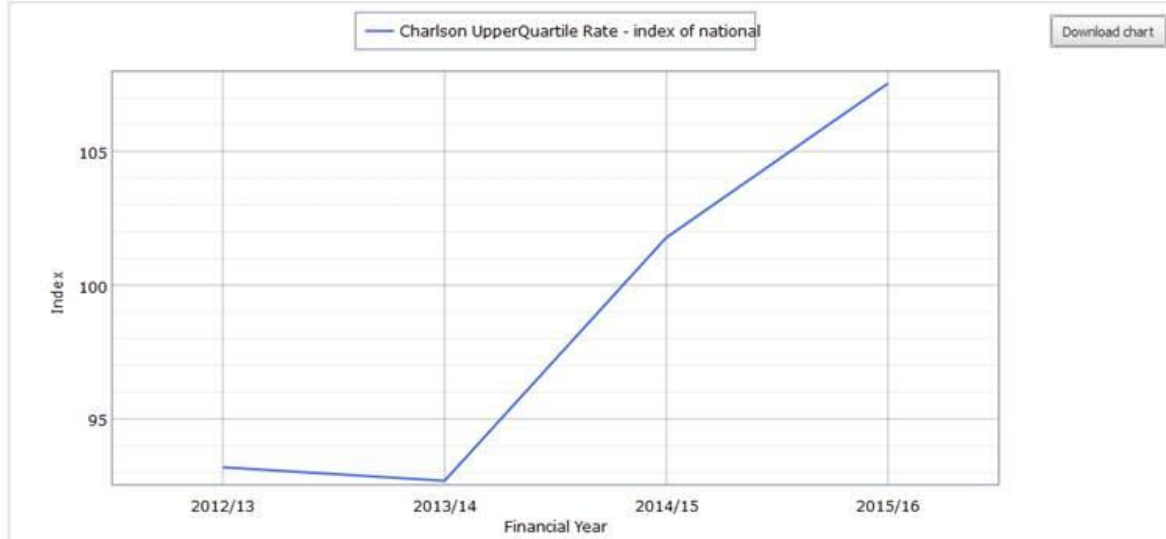
URINARY TRACT INFECTION



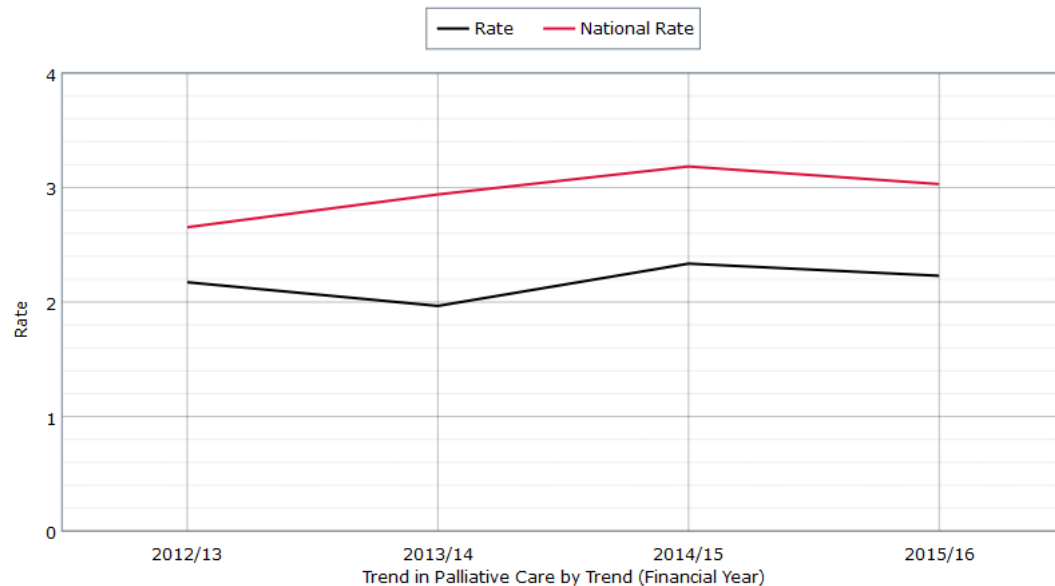
CODING

	SFH	Top 10%	Top 25%	Bottom 25%	Bottom 10%
HSMR	118	111	106	93	88
Crude Mortality	4.7	4.56	4.04	3.43	2.63
Expected Mortality	4.27	4.73	4.26	3.43	3.03
% Spells >10 comorbidity	18.3%	19.6%	17.9%	14%	12.30%
% Emergency spells >10 comorbidity	28.90%	34.20%	31.90%	28%	26.30%
% Emergency spells >75 yrs	41.20%	46.20%	44.50%	38%	35.30%
% Emergency HSMR in signs & Symptoms	14.80%	15.40%	13.10%	11%	9.20%
% Emergency spells Palliative	2.60%	4.90%	4.40%	3%	2.10%

	2012/13	2013/14	2014/15	2015/16
Charlson comorbidity upper-quartile rate	23.3%	23.2%	25.4%	28.9%
Charlson rate as index of national	93	93	102	108



HIGH CO MORBIDITY SCORE

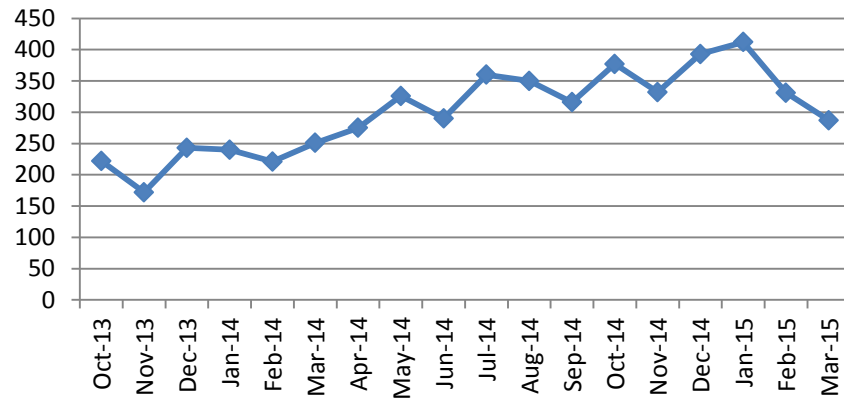


PALLIATIVE CARE CODING

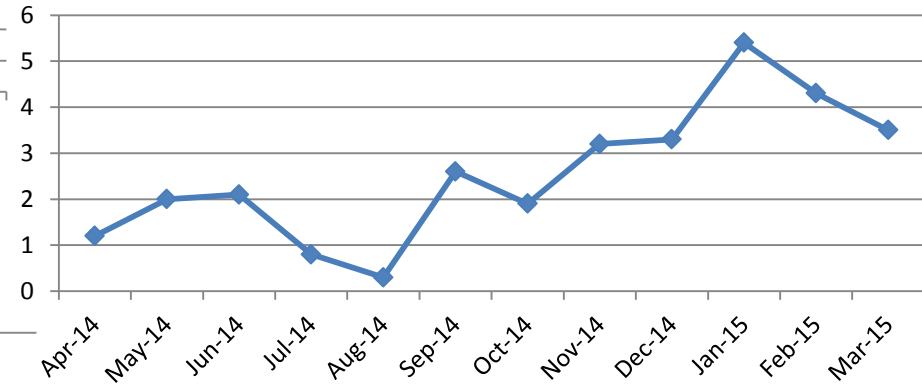
SO WHAT ELSE DO WE LOOK AT?

Segment Name	Indicator	Period	Trust	Peer	Score	Performance	Trend	Summary
Clinical Quality	Hospital Standardised Mortality Ratio (HSMR)	July 2014 - June 2015	112.46	99.75	0.93			Summary
Clinical Quality	Mortality Cumulative Summary (HSMR)	June 2015	0	0.48	0			Summary
Clinical Quality	Mortality Relative Risk (HRG4)	July 2014 - June 2015	111.29	99.73	0.77			Summary
Clinical Quality	Summary Hospital-Level Mortality Indicator (Quarterly SHMI)	October 2013 - September 2014	104.09	100.15	0.36			Summary
Clinical Quality	PE 90 day post discharge mortality per 1,000 spells	April 2014 - March 2015	0.24	0.21	0.2			Summary
Clinical Quality	Mortality Relative Risk for Diabetes Ketoacidosis (DKA)	April 2008 - March 2013	128.35	100.88	0.43			Summary
Clinical Quality	Mortality Relative Risk for Colorectal Cancer	April 2007 - March 2012	59.95	100.71	-0.98			Summary
Clinical Quality	Mortality Relative Risk for Fracture Neck of Femur	July 2014 - June 2015	74.01	99.14	-0.95			Summary
Clinical Quality	Mortality Relative Risk for Stroke	July 2014 - June 2015	100.28	99.14	0.02			Summary
Clinical Quality	Summary Hospital-Level Mortality Indicator (Monthly SHMI)	June 2014 - May 2015	103.14	102.04	0.31			Summary
Clinical Quality	Weekend Mortality (Monthly SHMI)	June 2014 - May 2015	102.54	107.48	0.29			Summary
Clinical Quality	Weekend Mortality (HSMR)	July 2014 - June 2015	113.4	104.23	1.01			Summary
Patient Safety	Mortality Relative Risk for surgical inpatients	2014/15	43.67	99.92	-2.26			Summary
Patient Safety	Death in low-mortality CCS groups	2014/15	0.03	0.06	-1.51			Summary

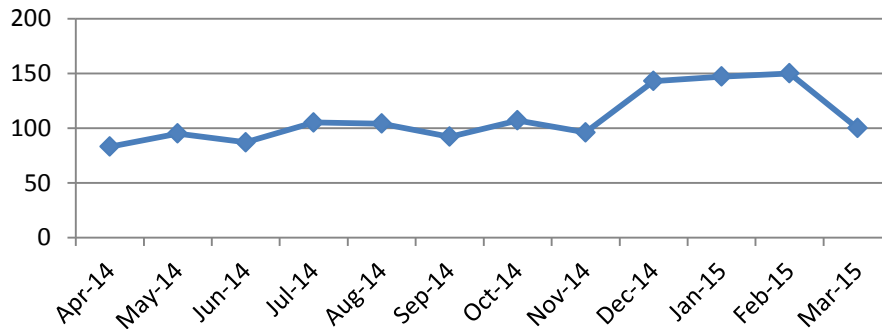
Calls to CCOT per month



CRITICAL CARE OUTREACH DOSE RATE



CARDIAC ARREST RATE/1000 ADMISSIONS



ESCALATION TO CRITICAL CARE OUTREACH

Q1. April-June '14	Q2. July-Sept '14	Q3. Oct –Dec '14	Q4. Jan-Mar '15
86%	78%	90%	88%

**WE ARE ABSOLUTELY COMMITTED TO
REDUCING AND SUSTAINING OUR
MORTALITY RATES BELOW 100**

1. Concerning picture for sustained period
2. Joint Mortality Review Group
3. Analysing – right actions
4. Implementations – clear commitment from Medical Director
5. Improving picture
6. Sustainability