

National Joint Registry (NJR) results guide



- CQC have collaborated with the NJR and agreed to present these 'key' metrics about the quality of services.
- The measures presented are taken from the <u>NJR's Hospital Profiles</u>, not from the annual report.
- The audit report may also be reviewed if necessary <u>here</u>.
- Outliers are generated from both the Hospital Profile data and the Annual Report data.

What this measures & rationale for inclusion	Interpretation	CQC prompts for follow-up
Case ascertainment (Well-led)		
The amount of cases submitted to the NJR as a proportion of eligible cases recorded in HES. Complete data is required to be able to determine the performance of hospitals, surgeons and surgical implants and for hospitals to be able to recall patients in the event of concerns. Poor compliance rates	A minimum compliance rate of 95% is expected for all hospitals. Compliance rates below 80% are considered inadequate. Hospitals' performance against the target and relative performance to other hospitals are both	The NJR allows monitoring of the performance of hospitals, surgeons and surgical implants and allows the recall of patients in the event of concerns. Poor compliance is a symptom of poor governance processes and can mask poor outcomes.
are a sign of poor governance and record keeping.	important.	

Proportion of patients consented to have personal details included (hips, knees, ankles and elbows) (Well-led)

The unadjusted percentage of patients who have given consent for their personal details to be recorded on the NJR.

In order to link primary and revision procedures together and determine the outcomes of surgery, personal data is required so patients need to give their consent. Poor consent rates are a sign of poorly managed processes within the unit. A minimum consent rate of 95% is expected for all hospitals. Consent rates below 80% are considered inadequate. Hospitals' performance against the target and relative performance to other hospitals are both important. The NJR allows monitoring of the performance of hospitals, surgeons and surgical implants and allows the recall of patients in the event of concerns. Poor consent rates are a symptom of poor governance processes and can mask poor outcomes.

fails to engage.

Risk-adjusted 5-year revision ratio (for hips excluding tumours and NOF#) (Effective)

The case-mix adjusted revision ratio for Providers are compared against Performance worse or much worse than primary hip replacement surgery at 5 years one-another and performance expected needs to be carefully examined. is z-scored.* Possible results There is no one single factor that explains post-surgery. Revision surgery is considered a good are: higher or lower revision rates. However, indicator for the success of joint Much better case selection, implant selection, surgical replacement surgery and is used technique and the revising surgeon's Better internationally to measure the outcomes of Within expected range revision threshold can all impact on a these procedures. This indicator is adjusted Worse hospital's revision rates. Reaching either to take into account case-mix factors and is Much worse alert or alarm status is often multifactorial. presented as a ratio to show the hospital's Outlier hospitals are contacted by NJR and revision rate in the context of expected asked to provide an action plan. Where rates for a unit of that size with that casethere are ongoing concerns, the NJR mix. recommends the hospital has an Elective Practice Review visit by the BOA. CQC are informed if hospitals are outliers and that an action plan has been requested. CQC don't intervene unless the provider

Risk-adjusted 90-day mortality ratio (for hips excluding tumours and NOF#) (Effective)

The case-mix adjusted mortality ratio for primary hip replacement surgery at 90 days post-surgery.

Although rate, 90-day mortality is considered a good indicator for the shortterm impact of joint replacement surgery and is used internationally to measure the outcomes of these procedures. This indicator is adjusted to take into account case-mix factors and is presented as a ratio to show the hospital's revision rate in the context of expected rates for a unit of that size with that case-mix.

one-another and performance is z-scored.* Possible results are: Much better Better Within expected range Worse Much worse

Providers are compared against

Performance worse or much worse than expected needs to be carefully examined. There is no one single factor that explains higher or lower mortality rates. Reaching either alert or alarm status is often multifactorial. Outlier hospitals are contacted by NJR and asked to provide an action plan. Where there are ongoing concerns, the NJR recommends the hospital has an Elective Practice Review visit by the BOA.

CQC are informed if hospitals are outliers and that an action plan has been requested. CQC don't intervene unless the provider fails to engage.

Risk-adjusted 5-year revision ratio (for knees excluding tumours) (Effective)				
The case-mix adjusted revision ratio for	Providers are compared against	Performance worse than expected or much		
primary knee replacement surgery at 5	one-another and performance	worse than expected needs to be carefully		
years post-surgery.	is z-scored.* Possible results	examined. There is no one single factor that		
Revision surgery is considered a good	are:	explains higher or lower revision rates.		
indicator for the success of joint	Much better	However, case selection, implant selection,		
replacement surgery and is used	Better	surgical technique and the revising		
internationally to measure the outcomes of	Within expected range	surgeon's revision threshold can all impact		
these procedures. This indicator is adjusted	Worse	on a hospital's revision rates. Reaching		
to take into account case-mix factors and is	Much worse	either alert or alarm status is often		
presented as a ratio to show the hospital's		multifactorial. Outlier hospitals are		
revision rate in the context of expected		contacted by NJR and asked to provide an		
rates for a unit of that size with that case-		action plan. Where there are ongoing		
mix.		concerns, the NJR recommends the hospital		
		has an Elective Practice Review visit by the		
		British Orthopaedic Association.		
		CQC are informed if hospitals are outliers		
		and that an action plan has been requested.		
		CQC don't intervene unless the provider		
		fails to engage.		
Risk-adjusted 90-day mortality ratio (for kne	es excluding tumours) (Effective)			
The case-mix adjusted mortality ratio for	Providers are compared against	Performance worse than expected or much		
primary knee replacement surgery at 90	one-another and performance	worse than expected needs to be carefully		
days post-surgery.	is z-scored.* Possible results	examined. There is no one single factor that		
Although rate, 90-day mortality is	are:	explains higher or lower mortality rates.		
considered a good indicator for the short-	Much better	Reaching either alert or alarm status is		
term impact of joint replacement surgery	Bottor	often multifactorial. Outlier hospitals are		

term impact of joint replacement surgery and is used internationally to measure the outcomes of these procedures. This indicator is adjusted to take into account case-mix factors and is presented as a ratio to show the hospital's revision rate in the context of expected rates for a unit of that size with that case-mix.

Within expected range Worse Much worse

often multifactorial. Outlier hospitals are contacted by NJR and asked to provide an action plan. Where there are ongoing concerns, the NJR recommends the hospital has an Elective Practice Review visit by the British Orthopaedic Association. CQC are informed if hospitals are outliers and that an action plan has been requested. CQC don't intervene unless the provider fails to engage.

BOA: British Orthopaedic Association

HES: Hospital Episode Statistics

NOF#: Neck of femur fracture

*Z-Score: a measure of how different an individual organisation's performance is from average. Performance which is very different to the average is classified as much better (z-score 3 or above) or much worse (z-score 3 or below). A z-score is the number of standard deviations from the mean that the value lies. If a Z-score is 0, it indicates that performance is identical to the mean performance. Performance is Z-scored as follows Greater than or equal to 3: Much better than expected Greater than or equal to 2 and less than 3: better than expected Between 2 and -2: within expected range Less than or equal to -2 and greater than -3: worse than expected Less than or equal to -3: Much worse than expected

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