| | | | | Paediatric Cardiac - Cardiology & Surgery 2019/20 | | | | | | | | NH Englar | | | | |
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| | | | | | | | | | | | | | | Reporting | Periods | |
| Indicator Reference | Domain | Theme | Measure | Rationale | Indicator Name /Description | Numerator | Denominator | Period Type | Frequency | Data Source Numerator | Data Source Denominator | Notes | Q1 | Q2 | Q3 | Q4 |
| CH01-P | Domain 4: Ensuring that people have a positive experience of care. | Outcome Measure | Patient experience and quality of care | Patient reported experience measures (PREMS) are used to assess how satisfied patients and parents are with a service. They indirectly indicate how patient centred a service is: This metric uses a specific question in the PREMS survey given to parents of children with CHD that asks them whether they are happy or not with their overall inpatient care. The PREMS survey tilb e available for patients/parents/carers to complete throughout the year. | Inpatient care received. (PREMS survey - positive responses) | Positive responses | Total responses | Quarterly | Quarterly | MSB | MSB | No longer available | N/A | N/A | N/A | N/A |
| CH02-P | Domain 4: Ensuring that people have a positive experience of care. | Outcome Measure | Patient experience and quality of care | Patient reported experience measures (PREMS) are used to assess how satisfied patients and parents are with a service. They indirectly indicate how patient centred a service. This metric uses a specific question in the PREMS survey given to parents of children with CHD that asks them whether they are happy or not with their overall outpatient care. The PREMS survey will be available for patients/parents/carers to complete throughout the year. | Outpatient care received. (PREMS survey - positive responses) | Positive responses | Total responses | Quarterly | Quarterly | MSB | MSB | No longer available | N/A | N/A | N/A | N/A |
| CH03-P | Domain 4: Ensuring that people have a positive experience of care. | Outcome Measure | Patient experience and quality of care | Patient reported experience measures (PREMS) are used to assess how satisfied patients and parents are with a service. They indirectly indicate how patient contred a service is. This metric uses a specific question in the PREMS survey given to parents of children with CHD that asks them whether or not hey received adqueue information and advice at point of discharge from an inpatient stay. The PREMS survey will be available for patients/parents/carers to complete throughout the year. | Adequate information provided at discharge. (PREMS survey - positive responses). | Positive responses | Total responses | Quarterly | Quarterly | MSB | MSB | No longer available | N/A | N/A | N/A | N/A |
| CH04-P | Domain 4: Ensuring that people have a positive experience of care. | Process | Patient experience and quality of care | Measures CDH01, 02 and 03 rely on receiving enough responses to make the sample representative of the overall platient population experience. As units interested in platient feedback would be expected to encourage completion of patient experience surveys, the proportion of inpatient epixodes generating a survey response will be used as a metric to assess this. | Number of surveys returned. | Number of surveys returned | Patients Discharged within time period | Quarterly | Quarterly | MSB | MSB | No longer available | N/A | N/A | N/A | N/A |
| CH05b-P | Domain 4: Ensuring that people have a positive experience of care | | Waiting time from referral | Minimising this period of uncertainty after the possibility of a heart abnormality is suggested during screening and is considered a key indicator of the quality of service delivered by a fetal cardiac unit. | heart disease who are | Of those in the denominator, the number of referrals with suspected fetal heart disease offered an appointment to be seen within 3 calendar days of the referral being made | The total number of referrals with suspected fetal heart disease seen across the network covered by the fetal cardiac service in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 |
| CH06a-P | Domain 4: Ensuring that people have a positive experience of care | | Specialist nurse contact after new fetal diagnosis | Families highly value the input of a fetal cardiac nurse specialist at the time of diagnosis of a fetal heart abnormality, therefore ensuring contacts is made on the day of diagnosis is an indicator of the overall quality of the service provided. | Proportion of patients diagnosed with fetal CHD contacted by a fetal cardiac nurse specialist on the day of diagnosis | Of those patients in the denominator the number contacted by a fetal cardiac nurse specialist on the day of f diagnosis | diagnosed with fetal CHD in the | Quarterly | Quarterly | Provider submitted data | Provider submitted data | | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 |
| CH07-P | Domain 1: Preventing people from dying prematurely | Clinical outcome | Risk adjusted survival | The PRAIS process uses a partial risk adjustment algorithm to produce an expected 30 day survival rate for children undergoing surgery for congenital heard disease. Following annual validation of a units data by NICOR, a calculation of the expected cumulative survival for the preceding three year period is made and compared with the observed survival. Although this is the most accurate measure of risk adjusted outcome after paediatric cardiac surgery its production is always a year after the end of the three year period concerned. | Risk adjusted survival (validated data) | Actual 30 day survival rate | PRAIS expected 30 day survival rate | 3 years | Annual | Provider submitted data | Provider submitted data | If coded as a intervention on CCAD / PRAIS | N/A | N/A | N/A | Apr 16 - Mar 19 |
| CH08-P | Domain 1: Preventing people from dying prematurely | Clinical outcome | Risk adjusted survival | All units are expected to monitor their own performance contemporaneously by running regular PRAS analysis of their paediarics urgical procedures. Whils the data is unvalidated, this exercise provides an early warning system for any problems that might be developing within the service. This metric provides a more contemporary measure of paediatric cardiac surgical outcomes by using a unit's actuarial / PRAS expected 30 day survival ratio for the preceding 3 years (on a rolling basis). | Risk adjusted survival (unvalidated) | Actual 30 day survival rate | PRAIS expected 30 day survival rate | 3 years rolling | Quarterly | Provider submitted data | Provider submitted data | This metric should use PRAIS2 | Jul 16 - Jun 19 | Oct 16 - Sep 19 | Jan 17 - Dec 19 | Apr 17 - Mar 20 |
| CH09-P | Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm | Process | and | Data quality is acknowledged as an indicator of the importance a unit places on its outcomes and performance. The data quality index (DQI) is a measure of the accuracy and completeness of the data submitted to NICOR and is calculated by the external assessors performing the annual NICOR validation visit. | Data Quality Index (DQI) | Unit NICOR DQI | N/A | Annual | Annual | Provider submitted data | Provider submitted data | Trusts will use the report generated by the NICOR validation visit and submit once a year in Q4. Where units have a combined DQI for data from paediatrics and ACHD they should submit the same value for both dashboards and advise in the indicator comments that combined data from paediatrics and ACHD has been submitted. | i N/A | N/A | N/A | Apr 19 - Mar 20 |

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| | | | | | | | | | | | | | | Reporting | Periods | Jianu | | | | | | | |
| Indicator Reference | Domain | Theme | Measure | Rationale | Indicator Name /Description | Numerator | Denominator | Period Type | Frequency | Data Source Numerator | Data Source Denominator | Notes | Q1 | Q2 | Q3 | Q4 | | | | | | | |
| | Domain 4: Ensuring that people have a positive experience of care | Clinical process | Elective surgery Cancellations | Last minute cancellations for non-clinical reasons are a measure of the quality and efficiency of a service and influence patience experience. | Proportion of elective congenital cardiac surgery procedures cancelled at the last minute for a non-clinical reason | Total number of cases in the denominator cancelled at the last minute for non-clinical reasons | The total number of elective admissions for congenital cardiac surgery (including those cancelled at the last minute for non-clinical reasons) in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Count all scheduled procedures that qualify as a surgical interventior for NCHDA/PRAIS submission. An Elective Admission is one that has been arranged in advance. It is not an emergency admission, a maternity admission or a transfer | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 | | | | | | | |
| | | | | | | | | | | | | from a Hospital Bed in another Health Care Provider. A last-minute cancellation is one that occurs on the day the patient was due to arrive, after they have arrived in hospital or on the day of their operation. Cancellation for non-clinical reasons includes unavailability of general ward or intensive care bed, unavailability of staff, because an emergency case took priority, because a surgical list ran over, due | | | | | | | | | | | |
| CH11a-P | Domain 3: Helping people to recover from episodes of ill health or following injury | Clinical process | Reintervention rate after congenital cardiac surgery | rate after congenital | rate after congenital | rate after congenital | rate after congenital | rate after congenital | rate after congenital | rate after congenital | The unplanned re-intervention rate is one measure of the quality of the surgical service. | 30-day re-intervention rate following primary surgical procedure | Of those procedures in the denominator, the number resulting in unplanned re-interventions (surgery or catheter) within 30 days | The total number of primary congenital cardiac surgical procedures submitted to NCHDA in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Unplanned re-interventions include procedures that were not intended during the planning phase, follow an initial primary cardiac surgery and result in "substantive alteration to the heart" incorporating cardiac bypass, cardiac non bypass, pacemaker placement, interventional catheterisation and include diaphragm plication (which are not related to the heart itself). The definition does not include mechanical support or other non- cardiac surgery procedures and specifically excludes those | Jan 19 - Mar 19 | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 |
| | | | | | | | | | | | | procedures listed in the metrics definitions in appendix 1. Denominator note: Please exclude those procedures submitted to NCHDA that are classified as 'Minor and Excluded Procedures'. | | | | | | | | | | | |
| CH12bii-P | Domain 3: Helping people to recover from episodes of ill health or following injury | Clinical outcome | Congenital cardiac surgery - significant procedure related | The frequency of significant procedure related complications following congenital cardiac surgery is one measure of quality for congenital cardiac surgical services. | 30-day complication rate following primary surgical procedure | Of those procedures in the denominator, the number resulting in procedure-related complications within 30 days | The total number of primary congenital cardiac surgical procedures submitted to NCHDA in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Numerator note: Please see appendix 2 for the list of significant procedure related complications. Please also count any complications that occurred during the same admission. Denominator note: Please exclude those procedures submitted to | Jan 19 - Mar 19 | Apr 19 - Jun 19 | Jul 19 - Sep 19 | | | | | | | | |
| CH13a-P | | Clinical | complications | The unplanned reintervention rate is one measure of the quality of | 30-day re-intervention rate | Of those procedures in the | The total number of primary catheter | Quarterly | Quarterly | Provider | Provider | NCHDA that are classified as 'Minor and Excluded Procedures'. | Jan 19 - | Apr 19 - | Jul 19 - | Oct 19 | | | | | | | |
| | people to recover from episodes of ill health or following injury | outcome | reintervention rate - congenital cardiac catheter intervention | the congenital catheter intervention service. The number of patients having one or more unplanned reintervention within 30 days of a planned congenital cardiac catheter procedure will be used to measure this. | | denominator, the number resulting in catheter interventions within 30 days | Intervention procedures submitted to NCHDA in the reporting period | | quitting | | submitted data | Interneed during the planning phase, follow an initial primary cardiac intervention and result in "substantive alteration to the heart" incorporating cardiac bypass, cardiac non bypass, pacemaker placement and interventional catheteristation. The definition does not include mechanical support or other non-cardiac surgery procedures and specifically excludes those procedures listed in the metric definitions in appendix 1. | | Jun 19 | Sep 19 | Dec 19 | | | | | | | |
| CH14bii-P | Domain 3: Helping people to recover from episodes of ill health or following injury | Clinical outcome | Congenital cardiac catheter intervention procedures - significant procedure related complications | The frequency of significant procedure related complications after congenital cardiac intervention procedures is one measure of the quality of the congenital cardiac catheter intervention service. | 30-day complication rate following primary catheter intervention procedures | Of those procedures in the denominator, the number resulting in complications within 30 days | The total number of primary catheter intervention procedures submitted to NCHDA in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Numerator note: Please see appendix 3 in the metric definitions sheets for the list of the significant procedure related complications. lease also count any complications that occurred during the same admission. | Jan 19 - Mar 19 | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | | | | | | | |
| | Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm | measure | Infection control | Hospital acquired infection rate is a measure of patient safety and the quality of inpatient care. This will be assessed by the proportion of patients acquiring Clostridium difficile during an inpatient stay under the care of the congenital cardiac service. | Hospital Acquired Clostridium difficile. Proportion of inpatients under care of the paediatric cardiac service acquiring new positive Clostridium difficile cultures | Number of inpatients under care of the paediatric cardia cservice acquiring new positive Clostridium difficile cultures | Total number of inpatient stays under the paediatric cardiac service | | Quarterly | Provider submitted data | Provider submitted data | | Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 | | | | | | | |
| | Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm | Outcome measure | Infection control | Hospital acquired infection rate is a measure of patient safety and the quality of inpatient care delivered. This will be assessed by the proportion of patients acquiring MRSA during an inpatient stay under the care of the congenital cardiac service. | Hospital Acquired MRSA. Proportion of inpatients under care of the paediatric cardiac service acquiring new positive MRSA cultures | Number of inpatients under care of the paediatric cardiac service acquiring new positive MRSA cultures | Total number of inpatient stays under the paediatric cardiac service | Quarterly | Quarterly | Provider submitted data | Provider submitted data | An inpatient stay is defined as a hospital episode consisting of formal admission, allocation of a bed and discharge. | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 | | | | | | | |
| | Domain 4: Ensuring that people have a positive experience of care | Outcome measure | Complaints | Formal written complaints are a measure of patient dissatisfaction and indirect measure of patient experience. The proportion of inpatient care episodes resulting in a written complaint will be used to assess this. Units must submit their own data. | Formal complaints involving inpatients | Number of formal written complaint: involving patients admitted under the care of the paediatric cardiac service | | Quarterly | Quarterly | Provider submitted data | Provider submitted data | An inpatient stay is defined as a hospital episode consisting of formal admission, allocation of a bed and discharge. | Apr 19 - Jun 19 | Jul 19 - Sep 19 | Oct 19 - Dec 19 | Jan 20 - Mar 20 | | | | | | | |

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| Indicator Reference Number | Domain | Theme | Measure | Rationale | Indicator Name /Description | Numerator | Denominator | Period Type | Frequency | Data Source Numerator | Data Source Denominator | Notes | Q1 | Reporting Q2 | Periods Q3 | Q4 |
| | Domain 4: Ensuring that people have a positive experience of care | Measure | | tbc | Proportion of patients waiting over the planned time for their follow up appointment | Of those in the denominator, the number of patients who waited over the planned time for the appointment | The total number of patients seen at a follow up outpatients appointment in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Surgical Centre only | | On hold for review | | |
| | Domain 4: Ensuring that people have a positive experience of care | Measure | | the | | | The total number of patients seen at a follow up outpatients appointment who waited longer than the planned time in the reporting period | Quarterly | Quarterly | Provider submitted data | Provider submitted data | Surgical Centre only | | On hold for review | | On hold for review |
| | Data collection has been approved by the Review of Central Returns - ROCR ROCR/OR/2230/001MAND | | | | | | | | | | | | | | | |

Appendix 1

- Metrics CH11a-P & CH13a-P Procedure codes specifically excluded are listed below: 120625. Transluminal RV biopsy 123200. Post-operative procedure 123206. Lung biopsy procedure 123214. DC cardioversion 123217. Parietal pleurectomy 123218. Post-operative procedure to control bleeding 123221. Cardiac procedure (DESCRIBE) 123240. Pericardiocentesis 123241. Pericardiocentesis - open 123243. Pericardiocentesis - transcatheter
- 123246. Pericardial window creation

123253. Pericardial biopsy

123259. Procedure involving pericardium (DESCRIBE)

123280. Insertion of pleural tube drain

123283. Insertion of mediastinal tube drain

123310. Traumatic injury of heart repair

123351. Peripheral vascular procedure (DESCRIBE)

- 123352. Non-cardiothoracic / vascular procedure (DESCRIBE)
- 123353. Non-cardiothoracic-vascular procedure on cardiac patient
- 123713. Single lung transplant
- 123720. Double lung transplant
- 123760. Lung(s) transplant
- 124000. Thoracotomy
- 124006. Thoracoscopic approach (VATS)
- 124013. Minimally invasive procedure
- 124099. Cardiac incision
- 124300. Reoperation
- 124325. Palliative procedure
- 124500. Transluminal catheter procedure
- 124507. Transluminal diagnostic test occlusion
- 124559. Transluminal procedure using adjunctive therapy
- 126400. Bronchoscopy
- 126408. Bronchoscopic removal of foreign body
- 126420. Tracheal procedure (DESCRIBE)
- 126421. Tracheostomy creation
- 126440. Tracheobronchial reconstruction procedure
- 126505. Mediastinal exploration
- 126506. Mediastinal procedure
- 126513. Pectus carinatum repair
- 126514. Pectus excavatum repair
- 126523. Anterior chest wall (pectus) repair
- 126548. Sternal wire removal from previous sternotomy

126560. Delayed closure of sternum

126572. Open excision of pleural lesion

126600. Lung procedure

126601. Lung decortication

126602. Lung mass excision

126605. Lung lobectomy

126606. Pneumonectomy

126607. Lung sequestration repair

128000. Thoracic / mediastinal procedure (DESCRIBE)

130103. Transoesophageal echocardiography

130501. Diagnostic catheterisation procedure

130505. Diagnostic cardiovascular catheterisation procedure

Appendix 2

Metric CH12bii-P

The number of congenital cardiac surgical procedures that are followed by one or more of the complications as listed:

158213. Acute kidney injury requiring haemofiltration or haemodialysis

150009. Requirement for mechanical circulatory support (including ECMO and VAD)

158375. Postprocedural necrotising enterocolitis - established requiring treatment

156741. Surgical site infection requiring surgical intervention

158064. Prolonged pleural drainage >7days

158190. Phrenic nerve injury requiring plication of hemidiaphragm

158086. Postprocedural requirement for tracheostomy

110633. Postprocedural complete atrioventricular block requiring permanent pacemaker

Appendix 3

Metric CH14bii-P

The number of congenital cardiac catheter intervention procedures that are followed by one or more of the complications listed as below:

155151. Local complication at access site of cardiac catheterisation requiring transfusion

155152. Local complication at access site of cardiac catheterisation requiring thrombolysis

155153. Local complication at access site of cardiac catheterisation requiring surgical intervention

155061. Coronary arterial compression following transluminal device implantation

155037. Embolisation of catheter introduced device

155052. Erosion of or into cardiac structure by implanted transcatheter device

155071. Embolisation of stent

155065. Embolisation (dislodgment) of catheter introduced coil

155091. Stent left expanded in unplanned site after migration, embolisation or failure to deliver to intended site.

155078. Rupture of conduit or vessel following stent implantation

155154. Mechanical haemolysis due to transcatheter implanted device or coil, requiring transfusion

155040. Failed to implant coil/device during transcatheter intervention (device removed from packaging)

158375. Postprocedural nectrotising enterocolitis - established requiring treatment

158257. Postprocedural new permanent neurological impairment (global or focal)

159094. Requirement for bailout transcatheter procedure following procedural complication 159095. Requirement for bailout surgical procedure following procedural complication