



Our Digital Future

IMAGINE WHAT'S POSSIBLE...

ieMR Advanced

CHQ ieMR ESM Business Continuity (Downtime) Procedures

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Table of contents

Abbreviations	1
Enterprise Scheduling Management (ESM) – Business Continuity Procedures.....	2
Purpose	2
Scope	2
Supporting Documents	2
1.0 Downtime and Recovery Checklist.....	3
2.0 Roles and Responsibilities during Downtime	5
3.0 Business Continuity Procedures.....	7
3.1 Paper based functions	7
3.2 ieMR Downtime and Recovery Plan.....	7
3.3 724Access Downtime Viewer.....	7
3.4 Table of Contents – Business Continuity Procedures.....	9
Document Version History.....	13

Abbreviations

724 DTV	724Access Downtime Viewer
BCP	Business Continuity Plan
CEC	Current Encounter Chart
CDO	Chief Digital Officer
CHQ	Children's Health Queensland
CHQ DISPLAN	Children's Health Queensland Disaster and Emergency Incident Plan
EDHS	Executive Director Hospital Services
HEOC	Health Emergency Operations Centre
HHS	Hospital and Health Service
HIC	Health Incident Controller
HSCE	Health Service Chief Executive
IMT	Incident Management Team
ieMR	Integrated Electronic Medical Record
LCCH	Lady Cilento Children's Hospital
NDOC	Nursing Director On Call
MAR	Medication Administration Record
NUM	Nurse Unit Manager
PFNM	Patient Flow Nurse Manager
TL	Team Leader

Enterprise Scheduling Management (ESM) – Business Continuity Procedures

Purpose

The CHQ ieMR ESM Business Continuity Procedures detail the downtime processes, planned and unplanned, related to the Cerner Millennium ieMR ESM module and forms part of the broader CHQ Business Continuity Plan (BCP). This document provides detailed processes and responsibilities within clinical areas for an ieMR system outage or interruption that impacts standard business operations.

Scope

The scope of this document is to identify and define the downtime procedures applicable to the ESM module.

This document applies, but is not limited to:

- Outpatients Department
- Theatres

Supporting Documents

- CHQ Business Continuity Plan

1.0 Downtime and Recovery Checklist

In the event of a planned or unplanned downtime, the NUM/TL will coordinate the downtime and recovery response for the area and complete the following activities:-

Activity
<p>Staff Preparation (prior to downtime)</p> <ul style="list-style-type: none"> • Each week complete the downtime checklist to ensure Downtime Viewer and Downtime Kit are ready. • Re-familiarise staff with Downtime procedures and quick reference guides
<p>Staff Preparation (at time of downtime)</p> <ul style="list-style-type: none"> • Communicate to staff the downtime has commenced. • Open the downtime kit and ensure clinical staff have access to the contents to enable continued documentation of patient care. • Communicate to staff location of 724 Access Downtime Viewer and the Downtime kit. • Direct clinical staff to business continuity procedures.
<p>Patient Preparation (at time of downtime)</p> <ul style="list-style-type: none"> • Ensure each patient has signage above the bed to indicate "Patient on Paper".
<p>Clinical Documentation Preparation</p> <p>Planned Downtime</p> <ul style="list-style-type: none"> • Ensure any Paediatric Advanced Resuscitation Plans (PARP) and Advanced Health Directives are printed prior to the downtime and available in the Current Encounter Chart (CEC). • Use HBCIS and/or ESM to print any relevant documentation:- <ul style="list-style-type: none"> • Patient Tracking List • Clinic List (OPD) • Theatre Lists • Use ieMR to print:- <ul style="list-style-type: none"> • List of Orders – completed, pending • Patient Labels <p>Planned and Unplanned Downtime</p> <ul style="list-style-type: none"> • Ensure relevant paper medication charts are available for each patient in the end of bed chart. • In the event of a Statewide planned downtime, access the Disaster Recovery Database via QHEPS. The 724 Access Downtime Viewer is NOT required to be used. • If the event is not a Statewide planned downtime, access the 724Access Downtime Viewer <u>at the commencement</u> of downtime using the ward generic login and password. • Print a patient list of current patients. Refer to the downtime viewer quick reference guide found in the downtime kit for printing instructions.

Activity

Clinical Documentation Preparation (continued)

- Print the following for ALL patients on the patient list and place in each patient's end of bed chart:-
 - 1) Medication Orders (current). This will print the patients MAR (Medication Administration Record)
 - 2) Active Orders. This will print a list of outstanding/ active orders for all patients. Print the following tabs in the downtime viewer:
 - o Orders (current)
 - o Completed orders

Other relevant clinical documentation can be accessed and printed as clinically indicated, for example:-

- 1) Documents
- 2) Intake and Output (Fluid Balance Chart)
- 3) Discontinued Medications
- 4) Patient Care Results
- 5) Vital Signs
- 6) Lab Results
- 7) Microbiology Results

Refer to the downtime viewer quick reference guide found in the downtime kit for printing instructions.

Reprinting of the MAR for patients is a risk in a downtime. The responsibility of printing and monitoring this activity is with the NUM/TL who will manage access to the Downtime Viewer during a downtime.

Pre-printing preparation will depend on the predicted length of time of the Downtime and clinical need.

Recovery (following the downtime)

- Remove "Patient on Paper" signage
- Coordinate the recovery response – ensure that clinicians retrospectively enter the required information into the ieMR. Refer to the downtime recovery column in the Business Continuity Procedures (Section 3.0).
- The recovery plan is intended as a guide only. Patient safety principles take precedence. The decision to enter clinical information into the ieMR manually, or have the information scanned and reconciled upon discharge post a downtime event will be assessed after each downtime event by the HEOC (if assembled), and local line management in consultation with the NUM/TL and divisional director level. This will be dependent on the time of the downtime, length of the downtime, length, impact of the downtime and clinical requirements.
- Replenish contents of the downtime kit and reseal the kit. Health Information Management Services has a supply of all approved downtime forms.

Additional Staffing and Resource Requirements

- The requirement for additional staff should be assessed during and after each downtime event. This will be assessed by the HEOC (if assembled), and local line management in consultation with the NUM/TL and divisional director level. This will be dependent on the time of the downtime, length of the downtime, impact of the downtime and clinical requirements.
- Additional staffing of the recovery activity for medication reconciliation should be considered in the recovery phase post downtime
- Additional staffing may be required in areas with high patient flow numbers and documentation requirements; e.g. ED, OPD and Theatre during the Downtime, as well as in the Recovery phase after the Downtime period.

2.0 Roles and Responsibilities during Downtime

Clinical Staff

- Continue to care for patients.
- Follow any instructions given by the NUM/TL.
- Follow the downtime business continuity procedures found in the downtime kits.
- Document on paper forms found in the downtime kits.
- Ensure any completed paper forms are correctly labelled and placed in the patient's end of bed chart.
- Access the Downtime Viewer for additional patient information that is not already printed and available in the patient's end of bed chart.
- When notified that the ieMR has been restored, ensure information that needs to retrospectively entered, as per the business continuity procedures, is entered.

Administrative Staff

- Continue to admit, transfer and discharge patients in HBCIS.
- Maintain a documentation log of all admissions, transfers and discharges of patients during the downtime period.
- Ensure adequate patient labels in each end of bed chart for clinical staff to complete their documentation.
- Print HBCIS labels as required.
- Follow any instructions given by the NUM/TL.

NUM/Team Leader

- Refer to Section 1.0 – Downtime and Recovery Checklist

Digital Downtime Support Team

- Digital Downtime Support Team is stood up to support and coordinate activities during downtime events. This group reports to CHQ Executive and/or the HEOC (if activated) during this time.
- Provides updates and recommendations to the CHQ Executive and/or the HEOC, as required.
- Provides a link to operational staff (ieMR users) via phone and at elbow support.
- The team will comprise ieMR, HIS, Clinical and IT staff as required, dependent on the time of the downtime, length of the downtime, impact of the downtime and clinical requirements.

ieMR Digital Future (ieMR) Team

- As per the Digital Downtime Support Team.

Health Information Management Services

- Supports the Digital Downtime Support Team during downtime.
- Responsible for records governance decision making during and following downtime.
- Stock a supply of all approved downtime kit contents to assist with the replenishment of downtime kits following downtime.
- Validation and maintenance of data in the digital medical record following downtime.

ICT Department

- Participate in code yellow incident management
- Liaise with DAS ieMR
- Escalate within CHQ (& send Telstra messaging notifications as needed)
- Perform system checks
- Provide device hardware access & support
- Redistribute & deploy DTV devices where needed
- Coordinate DTV device re-loads & monitor as appropriate
- Coordinate PIR (post incident review)

Patient Safety and Quality

- Manage reported patient safety incidents during and following downtime.
- Support service during downtime, as required.
- Evaluation of performance and debrief to capture lessons learnt.
- Assist with post incident review process.

Patient Flow and Safety Unit (PFSU)

- First Responder of a potential code yellow incident.
- Undertakes the initial response and investigate/define the required response to the incident.
- Notifies Clinical Services or NDOC, who briefs the CHQ HSCE or EDHS.
- Facilitates communication to all team leaders notifying of the downtime.

3.0 Business Continuity Procedures

3.1 Paper based functions

A number of functions will still be managed using paper forms. These include (but are not limited to):

- Paediatric Advanced Resuscitation Plan (PARP)
- Advanced Health Directives
- Consent Forms

These functions are not included in the continuity procedures below and these forms will not be included within the Downtime Kits.

3.2 ieMR Downtime and Recovery Plan

During the event of a planned or unplanned downtime a number of continuity procedures will need to be completed to ensure that patient care and safety is maintained for the duration of the event. These procedures are shown below. Please note these procedures do not include supporting system downtime except where the downtime directly impacts the ieMR.

These procedures are focussed on access to and the recording of information within a patient's chart – patient safety and care should take priority. All paper forms completed during downtime are to be stored in the patient's end of bed chart.

The recovery plan is intended as a guide only. Patient safety principles take precedence. The decision to enter clinical information into the ieMR manually, or have the information scanned and reconciled upon discharge post a downtime event will be at the discretion of the local line reporting manager in consultation with the divisional director level.

3.3 724Access Downtime Viewer

There may be situations where the 724Access Downtime Viewer is:-

- Unavailable/Down during an ieMR Downtime;
- Does not have the required clinical information needed during downtime;
- Has no information for particular areas e.g. ESM, Outpatients, Community

If a planned downtime is State-wide, historical ieMR clinical documentation is available in the Disaster Recovery Database. The link to access this database would be published on QHEPS by DAS-ieMR. The 724Access Downtime Viewers are NOT required to be used in this situation.

During all other downtime events, historical clinical documentation is accessible via other clinical information systems including, but not limited to:-

- The Viewer
- QRIS
- PACS

- AUSCARE
- eLMS
- iPharmacy
- AUSLAB
- Enterprise Discharge Summary (EDS)

These systems should be accessed where appropriate and BAU procedures should be followed to view clinical information within these systems.

3.4 Table of Contents – Business Continuity Procedures

Unable to schedule appointments.....	10
Unable to reschedule a patient’s appointment	10
Unable to cancel a patient’s appointment	10
Unable to note patient attendance (check in and check out)	10
Unable to access daily appointment list	11
Unable to process referrals (entry or updates).....	11
Unable to schedule a patient’s elective surgery	11
Unable to reschedule a patient’s surgery	11
Unable to cancel a patient’s surgery	11
Unable to schedule a patient’s emergency surgery	12
Unable to reschedule a patient’s emergency surgery	12

Function	Task	Downtime Contingency	Downtime Recovery	Responsibility
Outpatient Appointments	Unable to schedule appointments	Use a paper progress note to record scheduling requests. Paper progress notes are located in the Downtime Kits.	Retrospectively schedule appointments in the ieMR.	Administration staff
Outpatient Appointments	Unable to reschedule a patient's appointment	Use a paper progress note to record rescheduling requests. Paper progress notes are located in the Downtime Kits.	Retrospectively reschedule appointments in the ieMR.	Administration staff
Outpatient Appointments	Unable to cancel a patient's appointment	Use a paper progress note to record appointment cancellations. Paper progress notes are located in the Downtime Kits.	Retrospectively cancel appointments in the ieMR.	Administration staff
Outpatient Appointments	Unable to note patient attendance (check in and check out)	Appointments can be viewed within Queue Manager. Patient's should be "arrived" in Queue Manager, so clinicians know when the patient has arrived.	Retrospectively check patients in and out in the ieMR.	Administration staff

Function	Task	Downtime Contingency	Downtime Recovery	Responsibility
Outpatient Appointments	Unable to access daily appointment list	Search for an appointment list using Queue Manager.	N/A	Administration staff
Referrals	Unable to process referrals (entry or updates)	Referrals for entry will need to be kept locally. eRefer should use a paper progress note to record referral updates. Paper progress notes are located in the Downtime Kits.	Retrospectively enter referral information in the ieMR.	Administration staff
Theatre Scheduling Pre-Operative	Unable to schedule a patient's elective surgery	Continue with BAU process – record bookings on existing paper elective procedure booking form. System booking process put on hold.	Resume booking process within the ieMR.	Nursing staff / Administration staff / Surginet Administrator
Theatre Scheduling Pre-Operative	Unable to reschedule a patient's surgery	Continue with BAU process – record rescheduling requests on existing paper elective procedure booking form. System booking process put on hold.	Resume booking process within the ieMR.	Nursing staff / Administration staff / Surginet Administrator
Theatre Scheduling Pre-Operative	Unable to cancel a patient's surgery	Continue with BAU process – record cancellation on existing paper elective procedure booking form. System booking process put on hold.	Resume booking process within the ieMR.	Nursing staff / Administration staff / Surginet Administrator

Function	Task	Downtime Contingency	Downtime Recovery	Responsibility
Theatre Scheduling Pre-Operative	Unable to schedule a patient's emergency surgery	Continue with BAU process – record bookings on existing paper emergency procedure booking form. System booking process put on hold. Emergency whiteboard used to manage workflow.	Resume booking process within the ieMR.	Administration staff
Theatre Scheduling Pre-Operative	Unable to reschedule a patient's emergency surgery	Continue with BAU process – record rescheduling request on existing paper emergency procedure booking form. System booking process put on hold.	Resume booking process within the ieMR.	Administration staff

Document Version History

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