

Electronic Case Reporting (eCR)

October 2024

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Agenda

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- eCR Benefits
 - For Public Health
 - For Providers
- Reporting process
- eCR Status
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 - Future
- eCR Scenarios
 - Scenario 1
 - Scenario 2
- eCR Tracking
- Reviewing and Utilizing eCR Information
- Identifying Events with eCRs

Background

What is an eCR?

- The North Carolina Department of Health and Human Services (NCDHHS), Division of Public Health, has implemented Electronic Case Reporting (eCR) for certain diseases/conditions.
- eCR is a digital system that facilitates the electronic submission of case reports from healthcare providers directly to public health authorities.
- eCR streamlines the reporting process, ensuring accurate and efficient data transmission and eventually will reduce the amount of manual data entry required to complete a case.

Background

Why does an eCR help?

- Historically, public health management of communicable diseases has relied on case and laboratory reports submitted via fax, phone, and mail. These methods are time-consuming and often prone to errors or missing information.
- The transition to eCR addresses these challenges by automating and digitizing the reporting process.
- This approach saves time and resources for both healthcare providers and local health department staff, enhancing the overall efficiency of disease surveillance and follow-up activities.

Background

When will users see an eCR in NCEDSS?

- NCEDSS users will be notified as eCR is integrated for new conditions into NCEDSS.
- Please note that, for the time being, eCR will not replace manual reporting requirements, which will remain in effect while we address any potential information gaps.
- All updates regarding the impact of eCR in NCEDSS and manual reporting requirements will be communicated through the NCEDSS Helpdesk.

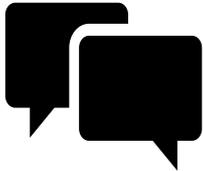
eCR Benefits for Public Health



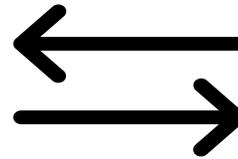
Provides critical clinical data from healthcare for better surveillance



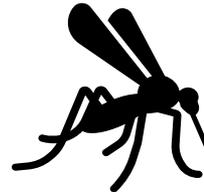
Accelerates response



Improves communication with healthcare



Enables bidirectional data exchange



Efficiently monitors the spread of reportable diseases



Reduces manual data entry and provides more complete data

eCR Benefits for Healthcare Providers



Saves time by reducing manual reporting



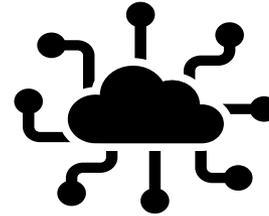
Streamlines jurisdictional reporting challenges



Receives information back from public health associated with the reportable condition



Reduces burden without disrupting the clinical workflow



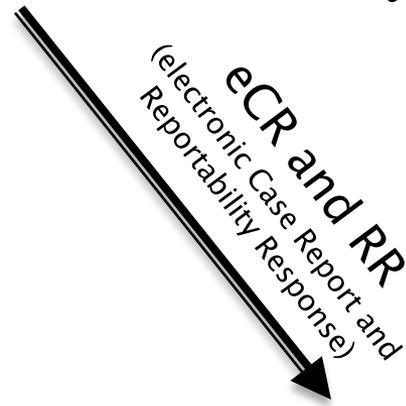
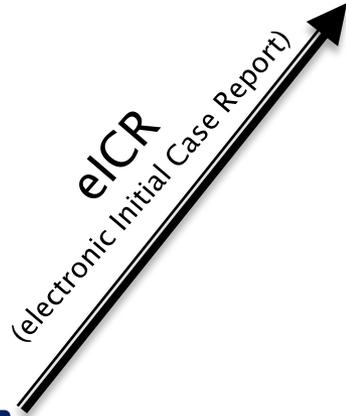
Allows expansion to all reportable conditions



Fulfills legal reporting requirements

eCR Reporting Process

If the eICR meets NC's reporting criteria for the disease, an eCR and Reportability Response is sent to NCDHHS.



eCR Current Status

- The following NCEDSS conditions have been implemented for eCR:
 - Chlamydia
 - Gonorrhea
 - Mpox
- As additional conditions are finalized for future eCR implementation, all NCEDSS users will be updated through the NCEDSS Helpdesk.
- Approximately **65%** of NC hospitals, along with thousands of practices and ambulatory clinics, are sending eCR data to the state.

eCR Current Status

- Data elements that may be added to the person info and demographics section of an event are:
 - Alias
 - Social security number
 - Race
 - Ethnicity
 - Address
 - Phone Number(s)
 - Email Address

eCR Current Status

- eCRs will be linked to the relevant NCEDSS events or used to create new events.
 - These eCR attachments will be deleted after 60 days.
- eCR does **NOT** currently replace manual reporting requirements. NCEDSS users will be notified via the NCEDSS Helpdesk once any reduction in manual reporting requirements for specific conditions has been established.

eCR Future Status

- Mapping fields from the eCR directly into fields in the event.
 - Currently the focus is on mapping medication info for treatment of gonorrhea and chlamydia
- An eCR imported into an existing event will not overwrite any information that is already present.

eCR Scenarios

eCR Scenarios

There are two primary scenarios for how eCR may be imported into events:

- 1) An eCR is imported into an existing event that already has a pre-existing lab result (either entered manually or imported).
- 2) An eCR is imported into a new event that does not have a lab result.

******The following scenarios are based on sample eCRs and do not include any real personally identifiable information (PII).

Scenario 1 - eCR on existing event

Scenario 1: An eCR arrives after an ELR has created an event for the same patient/disease

Event Summary

Basic Information

Event ID:	103888440
Disease:	Chlamydia (200)
Name:	Patient1 M Test1
Birth Date:	11/12/2001
Age:	22
Gender:	Female
Home Phone:	(910) 111-1111
Type:	Batch
Investigation Status:	Open (Change to Closed)
Linked Events/Contacts:	0 (View)
Attachments:	0 (Add)

Notifications

Concerns
Best date of illness identification is missing

Disease Classification
Classification: Confirmed

Workflow Status
Event is in workflows [[View List](#)]

General Notifications
County of residence: Robeson County

Outbreaks
[Active outbreak: Outbreak Test](#) [[Link to Outbreak](#)] [[Open](#)]
[Active outbreak: Test High Outbreak](#) [[Link to Outbreak](#)] [[Open](#)]
[Active outbreak: Test Outbreak Today](#) [[Link to Outbreak](#)] [[Open](#)]

[Edit Event Properties](#) [Copy Event](#)

Notes

No data available for this section

[Event Data](#) [Lab Results](#) [Concerns](#) [Persons](#) [Tasks](#) [Event Properties](#) [Event History](#)

Lab Results

Lab No.	Specimen Date	Specimen Number	Specimen Type	Result	Result Status	Result Value	Test	Last Update
1	08/30/2024	SR24243-M0137	Urine specimen	Positive	Final Results		C trach rRNA XXX QI NAA+pro...	09/16/2024

Scenario 1 - eCR on existing event

The eCR can be viewed by clicking the [View](#) hyperlink in the Attachments row of the Basic Information section of an event.

Event Summary

Basic Information

Event ID:	103888440
Disease:	Chlamydia (200)
Name:	Patient1 M Test1
Birth Date:	11/12/2001
Age:	22
Gender:	Female
Home Phone:	(910) 111-1111
Type:	Batch
Investigation Status:	Open (Change to Closed)
Linked Events/Contacts:	0 (View)
Attachments:	1 (Add) (View)

Scenario 1 – eCR on existing event

To open the eCR, click the [Download](#) hyperlink

Manage Attachments - Patient1 M Test1 - Chlamydia (200)

Attachments									
Create Date	Person	File	Description	Status	Type	Updated By	Security Level	Action	
09/16/2024	Patient1 M Test1	1.2.840.114350.1.13.413.2.7.8.688883.188341500109_20240605184151_CDA.html	Electronic Case Report	Requires Review	Electronic Case Report	Automated Feeds	None	Download	Edit

Filter: Showing 1 to 1 of 1 entries First Previous **1**

Manage Attachments - Patient1 M Test1 - Chlamydia (200)

Attachments		
Create Date	Person	File
09/16/2024	Patient1 M Test1	1.2.840.114350.1.13.413.2.7.8.688883.188341500109_20240605184151_CDA.html

Filter: Showing 1 to 1 of 1 entries



Action

[Download](#) [Edit](#)

Previous **1**

******An eCR is a medical record extract and might include data unrelated to the current diagnosis. It should be handled with the same level of confidentiality as any other medical record. Exercise caution when downloading these files. If you have access to a shared drive, please download the files to a shared location. Ensure all attachments are deleted immediately after your review is complete.

Scenario 2 - eCR creates a new event

Scenario 2: An eCR is imported onto a new event with no lab

Event Summary

Basic Information	
Event ID:	103887226
Disease:	Gonorrhea (300)
Name:	Test E Patient2
Birth Date:	02/04/1976
Age:	48
Gender:	Female
Work Phone:	(111) 111-1111
Mobile Phone:	(999) 999-9999
Type:	Batch
Investigation Status:	Open (Change to Closed)
Linked Events/Contacts:	0 (View)
Attachments:	1 (Add) (View)

Notifications	
Disease Classification	
Classification: Under Investigation	
Workflow Status	
Event is in workflows View List	
General Notifications	
County of residence: Robeson County	

[Edit Event Properties](#) [Copy Event](#)

Notes

No data available for this section

[Event Data](#) [Lab Results](#) [Concerns](#) [Persons](#) [Tasks](#) [Event Properties](#) [Event History](#)

Lab Results

No data available for this section

[Add Lab Result](#) [Update Lab Result](#) [Delete Lab Result](#)

Scenario 2 – eCR on existing event

To open the eCR, click the [Download](#) hyperlink

Manage Attachments - Patient1 M Test1 - Chlamydia (200)

Attachments									
Create Date	Person	File	Description	Status	Type	Updated By	Security Level	Action	
09/16/2024	Patient1 M Test1	1.2.840.114350.1.13.413.2.7.8.688883.188341500109_20240605184151_CDA.html	Electronic Case Report	Requires Review	Electronic Case Report	Automated Feeds	None	Download	Edit

Filter: Showing 1 to 1 of 1 entries First Previous **1**

Manage Attachments - Patient1 M Test1 - Chlamydia (200)

Attachments		
Create Date	Person	File
09/16/2024	Patient1 M Test1	1.2.840.114350.1.13.413.2.7.8.688883.188341500109_20240605184151_CDA.html

Filter: Showing 1 to 1 of 1 entries



Action

[Download](#) [Edit](#)

Previous **1**

******An eCR is a medical record extract and might include data unrelated to the current diagnosis. It should be handled with the same level of confidentiality as any other medical record. Exercise caution when downloading these files. If you have access to a shared drive, please download the files to a shared location. Ensure all attachments are deleted immediately after your review is complete.

Scenario 2 – eCR creates a new event

An eCR that creates a new event will update the Disease Report Information section of the Administrative package:

- Initial Source of Report to Public Health = Physician/Provider
- Date of Initial Report to Public Health (Required) = Report Date
- Initial method of report = eCR

Disease Report Information	
Manually lock this event from auto-closure	
<input type="text" value="No"/>	▼
Initial Source of Report to Public Health	
<input type="text" value="Physician/Provider"/>	▼
<i>Date of Initial Report to Public Health (Required)</i>	
<input type="text" value="06/01/2024"/>	
Initial method of report	
<input type="text" value="Electronic Case Report (eCR)"/>	▼

Scenario 2 – eCR creates a new event

An eCR that creates a new event will set the Classification Status in the Investigation Trail to “Under Investigation”

Investigation Trail: Add a new entry for each group to which the event transfers during the investigation

Date Assigned/Reassigned
06/11/2024 
Add New

Group: (You cannot change your group selection unless you clear this entry by erasing the Date Assigned)
   **Local patient identifier**

* Select the reason for the assignment/reassignment *
Original/Initial Assignment ▼

Authorized Reporter **Phone number**

Classification status
Under investigation ▼

Notes

Remove this event from my review and approval workflow?
No ▼

eCR Case Report Tracking

- eCR attachments will be deleted after 60 days.
- In the Administrative package, you can locate the date an eCR was received and the sending facility.
- The blank fields indicate future data extraction elements.

Electronic Case Report Tracking (eCR)

eCR Received Date

06/11/2024 

Sending facility name

Children's Health Pembroke

Lab test performed at: 

Patient encounter location 

eCRs are included as attachments to the events and are available for 60 days. **After 60 days, the eCR attachment will be deleted.**

Reviewing and Utilizing eCR Information

Reviewing eCR Information

What is included in an eCR?

An eCR typically includes a combination of the following elements:

- | | |
|---------------------|-------------------------|
| ❖ Demographics | ❖ History |
| ❖ Clinical Notes | ❖ Results |
| ❖ Reason for Visit | ❖ Medications/Treatment |
| ❖ Encounter Details | ❖ Vaccine Information |

Reviewing eCR Information

Sample eCR

PATIENT2 TEST2 INITIAL PUBLIC HEALTH CASE REPORT	INITIAL PUBLIC HEALTH CASE REPORT	
BACK TO TOP	Patient2 Test2	
DEMOGRAPHICS	Patient Identifiers 09a-14940.E-642180 OID: 2.16.840.1.113762.1.4.1146.627.1.1.1.1.1	
AUTHORING DETAILS	ABOUT	CONTACT
CLINICAL SECTIONS	Date of Birth 01/5/1980 Sex Male Race American Indian or Alaska Native Ethnicity Hispanic or Latino	Primary Home 1111 Test Cir CHARLOTTE, NC 28209, USA Primary Home 1111 Test Dr Disney, SC 29745, USA 1111 Test Cir CHARLOTTE, NC 28209, USA 1111 Test Dr Disney, SC 29745, USA tel: (Primary Home) (222)222-2222 tel: (Mobile Contact) (444)111-2222 email: Test2.Patient2@mecklenburgcountync.gov
PROBLEMS - DIAGNOSES	AUTHOR	
ENCOUNTERS	Time: 06/17/2024, 04:00 Mister Rogers 11111111 NPI (US)	CONTACT
RESULTS	10 W Market Street SUITE 2900 Indianapolis, IN 46204-2954	
MEDICATIONS ADMINISTERED	AUTHOR ORGANIZATION	
IMMUNIZATIONS	Wilkinson Blvd	
SOCIAL HISTORY		
PLAN OF TREATMENT		
HISTORY OF PRESENT ILLNESS		
REASON FOR VISIT		
SIGNATURES		

Reviewing eCR Information

Sample eCR, continued

REASON FOR VISIT

Reason	Comments
Exposure to STD	Pt to ED with cc of penile discharge x2 days, itching, recent sexual activity.

RESULTS

negative	20240619000000-0400	
Neisseria gonorrhoeae rRNA [Presence] in Specimen by NAA with probe detection	negative	20240619000000-0400
Reagin Ab [Presence] in Serum by RPR	reactive	20240618000000-0400
Chlamydia trachomatis rRNA [Presence] in Specimen by NAA with probe detection	negative	20240619000000-0400
Herpes simplex virus identified in Specimen by Organism specific culture	comment	20240619000000-0400
Chlamydia trachomatis rRNA [Presence] in Nasopharynx by NAA with probe detection	negative	20240619000000-0400
Reagin Ab [Titer] in Serum by RPR	1:1 titer	20240618000000-0400
Orthopoxvirus.non-variola DNA [Presence] in Specimen by NAA with probe detection	detected	20240619000000-0400

Reviewing eCR Information

Sample eCR, continued

Sex and Gender Information		Value	Date Recorded
Sex Assigned at Birth		Male	02/19/2021 5:51 AM EST
Gender Identity		Not on file	
Sexual Orientation		Not on file	

documented as of this encounter

ENCOUNTER DETAILS				
Date	Type	Department	Care Team (Latest Contact Info)	Description
06/04/2024 5:38 PM EDT - 06/04/2024 7:31 PM EDT	Emergency	ATRIUM HEALTH MERCY - EMERGENCY DEPARTMENT 2001 Vail Avenue Charlotte, NC 28207 704-304-5917	Wilson, Reece, DO 10628 PARK ROAD CHARLOTTE, NC 28210 704-667-7070 (Work) 704-667-1170 (Fax)	Dysuria (Primary Dx); Urethral discharge in male Discharge Disposition: Home or Self Care

Utilizing eCR Information

Person / Demographic Data

Demographic Information	
Social security number	<input type="text"/>
Birth date	<input type="text" value="01/05/1980"/> 
Age	<input type="text" value="44"/>
Gender	<input type="text" value="Male"/> 
Transgender?	<input type="text" value="Not Applicable"/> 
Race	<input type="text" value="American Indian Alaskan Native"/>  <input type="button" value="+ Add New"/>
Please specify	<input type="text"/>
Hispanic ethnicity	<input type="text" value="Yes"/> 

Patient2 Test2

Patient Identifiers
09a-14940.E-642180 OID: 2.16.840.1.113762.1.4.1146.627.1.1.1.1.1

ABOUT

Date of Birth	01/5/1980
Sex	Male
Race	American Indian or Alaska Native
Ethnicity	Hispanic or Latino

Utilizing eCR information

Person / Demographic data, continued

Locating Information	
Verification of Reporting County is needed:	NC County of Residence for the Event:
<input type="text" value="No"/>	<input type="text" value="Mecklenburg County"/>
Street address ⓘ	
<input type="text" value="1111 Test Cir"/>	
City/Town ⓘ	
<input type="text" value="Charlotte"/>	
State ⓘ	Zip code ⓘ
<input type="text" value="NC"/>	<input type="text" value="28209"/>
County	Country ⓘ
<input type="text" value="Mecklenburg County"/>	<input type="text" value=""/>
Home phone ⓘ	
<input type="text" value="(222) 222-2222"/>	
Mobile phone	
<input type="text" value="(444) 111-2222"/>	

CONTACT

Primary Home

1111 Test Cir
CHARLOTTE, NC
28209, USA

Primary Home

1111 Test Dr
Disney, SC
29745, USA

1111 Test Cir
CHARLOTTE, NC
28209, USA

1111 Test Dr

Disney, SC

29745, USA

tel: (Primary Home) (222)222-2222

tel: (Mobile Contact) (444)111-2222

email: Test2.Patient2@mecklenburgcountync.gov

Identifying Events with eCRs

Identifying Events with eCRs

To identify which events in your county have eCRs, use this report:
Events with eCR activity

Maven Reporting

Category: Active Surveillance

Select Report: Events with eCR activity

Description: Events that either currently have an eCR attachment (select a timeframe within the last 60 days) or ever had an eCR attachment (any timeframe). Date basis for report is 'Date of encounter with the patient' from the Electronic Transmission Information package. Runs on the Reporting database.

Disease*: Carbapenem-resistant Enterobacteriaceae (CRE)
Chancroid (100)
Chikungunya
Chlamydia (200)
Cholera (6)

Status: Open
Closed
Invalid

Report Period*: Date Range Period
Start Date: mm/dd/yyyy End Date: mm/dd/yyyy

NC County of Residence for the Event: Alamance County
Alexander County
Alleghany County
Anson County

Output Type: HTML

This report has been configured to run on the reporting database.

Run Report Dashboard Help

Identifying Events with eCRs

Sample report output

Events with eCR activity

Disease: GONOR

NC County of Residence for the Event: Robeson County

Report Period: 06/01/2024 - 07/01/2024

Report Time: 09/16/2024 01:34 PM

Status: Open

Event ID	Create Date	Disease	Status	First Name	Last Name	NC County of Residence for the Event	Latest Lab Date	eCR Received Date	Sending facility name	Date of encounter with the patient	RCKMS code received
103887563	8/13/2024	Gonorrhea (300)	Open	Testpatient	Test1	Robeson County	1/1/1900	8/13/2024	McLeod Health System	8/11/2024	Gonorrhea (disorder)

Questions



For additional questions or assistance, please contact

Helpdesk: NCEDSSHelpDesk@dhhs.nc.gov
(919)715-5548 or toll-free (877)625-9259

Training: NCEDSSTrainings@dhhs.nc.gov

For questions about adding facilities for eCR, contact
eCR Core Team: ECR.Support.Services@dhhs.nc.gov