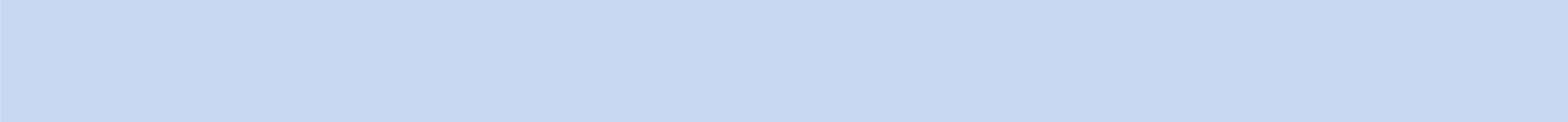# NC COVID Electronic Case Reporting (eCR)

May 2022

Trainings: ncedsstrainings@dhhs.nc.gov

Helpdesk: NCEDSSHelpDesk@dhhs.nc.gov

eCR General Information

Context

- The Department of North Carolina Health and Human Services (NCDHHS), Division of Public Health has implemented Electronic Case Reporting (eCR) for COVID.

- Public health relies on reports from physicians (case reports) and laboratories (laboratory reports) to manage communicable disease.

  - Historically, both reports were provided to public health via combinations of methods, including fax, phone, and mail. These reporting methods are time consuming and problematic due to missing or incorrect information.

  - Fifteen years ago, the process for reporting laboratories data electronically was introduced. Today over 80% of laboratory reports are delivered electronically.

  - Now we are working with providers to collect case reports electronically to save time and resources for both the providers expected to send the reports and the LHD staff as they follow up on cases of disease.

eCR Benefits

Provides critical clinical data directly from healthcare provider for better surveillance and response.
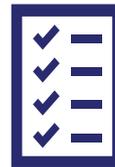
Accelerates response
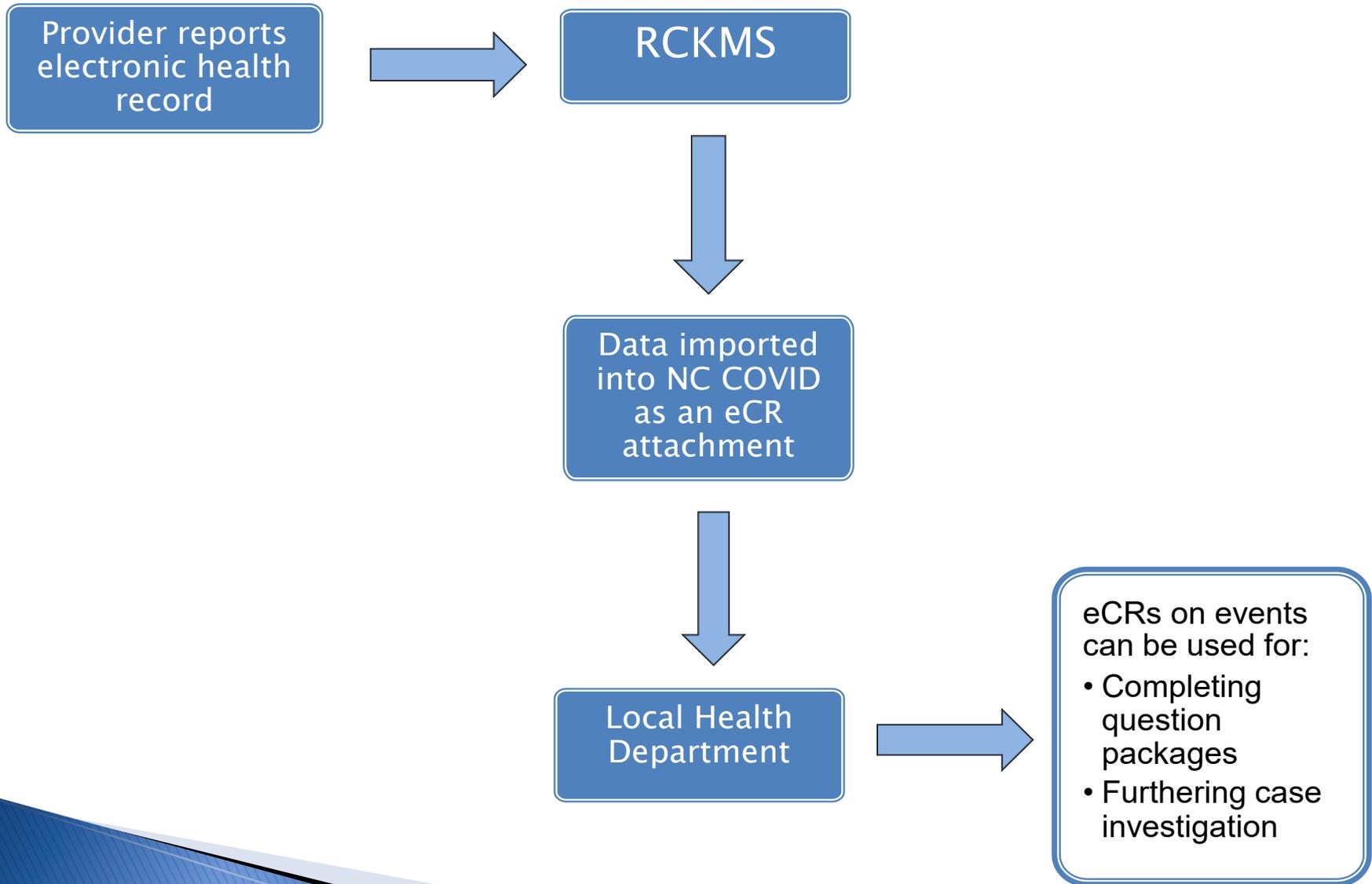
Efficiently monitors the spread of reportable diseases

Improves communication with healthcare

Reduced manual data entry and provides more complete data

eCR Reporting Process

Provider reports electronic health record → RCKMS

↓

Data imported into NC COVID as an eCR attachment

↓

Local Health Department →

eCRs on events can be used for:
- Completing question packages
- Furthering case investigation

eCR Current Status

- COVID Only

- Current Senders– UNC, Vidant, OCHIN, Orange County HD, Pitt County HD, Sentara, Premise Health

- Demographics updated may include
  - Phone Numbers
  - Email Address
  - Race
  - Ethnicity

- eCRs will be attached to appropriate NC COVID events, Note: after 60 days the eCR attachment is deleted

- eCRs will replace the Part 1 form for COVID beginning May 2022
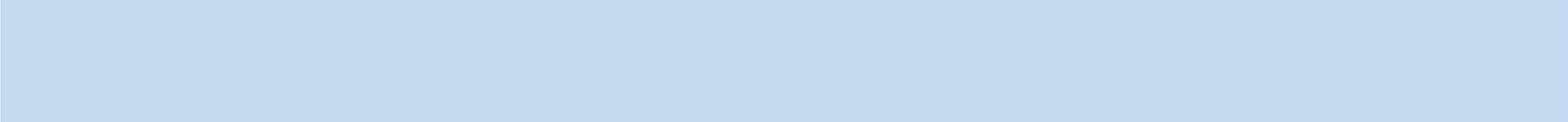
eCR Scenarios

eCR Scenarios

There are two primary scenarios how eCRs may import to events:

1. An eCR is imported to an existing event with a pre-existing lab (either entered or imported)

2. An eCR is imported to a new event with no lab

Note: The following 2 scenarios are based on sample eCRs (no real PII is included)

Scenario 1 – eCR on existing event

Scenario 1: An eCR is imported onto an existing event that has a lab

Scenario 1 – eCR on existing event

The eCR can be viewed in the Manage Attachments screen

To open the eCR, click the Download hyperlink

Note: an eCR is a medical record extract and may contain data that is not relevant to the current diagnosis. The data contained in the eCR should be treated the same as any medical record with the same level of confidentiality. Every precaution should be taken when downloading these files. If you have access to a shared drive, you should download to a shared location. All attachments should be deleted as soon as your review is complete.

Scenario 2 – eCR creates a new event

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

Scenario 2 – eCR creates a new event

The eCR can be viewed in the Manage Attachments screen
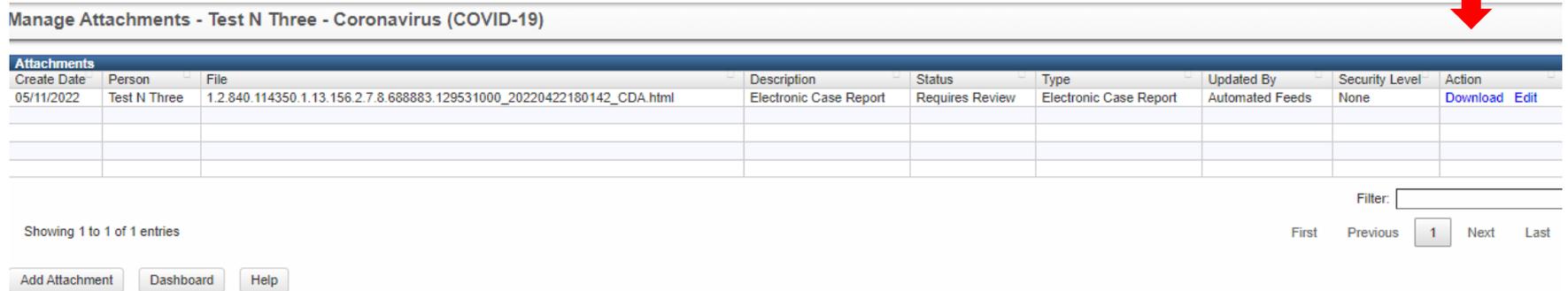
Manage Attachments - Test N Three - Coronavirus (COVID-19)

Attachments

Create Date	Person	File	Description	Status	Type	Updated By	Security Level	Action
05/11/2022	Test N Three	1.2.840.114350.1.13.156.2.7.8.688883.129531000_20220422180142_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   Next   Last

[Add Attachment] [Dashboard] [Help]

To open the eCR, click the Download hyperlink

Note: an eCR is a medical record extract and may contain data that is not relevant to the current diagnosis. The data contained in the eCR should be treated the same as any medical record with the same level of confidentiality. Every precaution should be taken when downloading these files. If you have access to a shared drive, you should download to a shared location. All attachments should be deleted as soon as 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		
## Initial Source of Report to Public Health	Physician/Provider	
## Date of Initial Report to Public Health (Required)	04/22/2022	
## Initial method of report	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"

eCR Case Report Tracking

- eCR attachments delete after 60 days
- You can identify the date an eCR was received and the facility that sent the eCR in the Administrative package

Electronic Case Report Tracking (eCR)	
eCR received date ⊟	05/11/2022
Sending facility name	Test Facility
eCRs are included as attachments to the events and are available for 60 days. After 60 days, the eCR attachment will be deleted.	
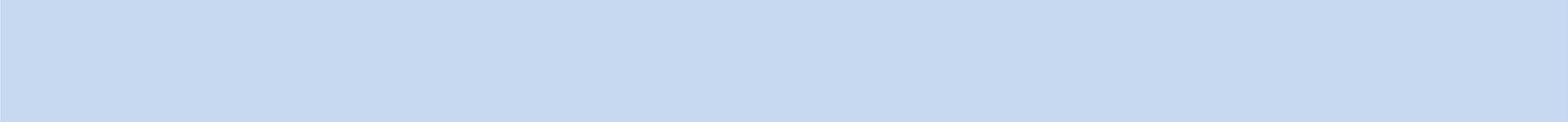
Utilizing eCR Information

eCR information

- What is included in an eCR?
  - Most eCRs will include some combination of the following:
    - Demographics
    - Clinical Notes
    - Medications
    - Reason for Visit
    - Treatment
    - Results
    - History
    - Encounter Details
    - Vaccine Info

eCR information

Sample eCR

TEST TWO
INITIAL PUBLIC HEALTH CASE REPORT

INITIAL PUBLIC HEALTH CASE REPORT

BACK TO TOP

DEMOGRAPHICS

AUTHORING DETAILS

CLINICAL SECTIONS

MISCELLANEOUS NOTES

IMMUNIZATIONS

ADMINISTERED MEDICATIONS

PLAN OF TREATMENT

PROBLEMS

REASON FOR VISIT

RESULTS

SOCIAL HISTORY

ENCOUNTER DETAILS

SIGNATURES

Test Two
Patient Identifiers
123456 OID: 1.2.840.114350.1.13.374.2.7.3.688884.100
111-11-1111 United States Social Security Number
100002999520 OID: 2.16.840.1.113883.3.2629.1

ABOUT

Date of Birth	01/1/2000
Sex	Male
Race	White
Ethnicity	Not Hispanic or Latino

CONTACT
Primary Home
1 Test Drive 1
Test city, NC
27545, USA
Primary Home
1 Test Drive
Test city, NC
27545
tel: (Primary Home) +1-123-456-7890
tel: (Mobile Contact) +1-123-456-7890
email: Test@gmail.com

AUTHOR

| Time: | 04/16/2022, 21:33 |

Background Lab
LABBACKGROUND
OID:
1.2.840.114350.1.13.374.2.7.2.697780

CONTACT
Work Place
123 Anywhere St.
Verona, WI
53753
tel: 555-5555

eCR information

Sample eCR, continued

REASON FOR VISIT

Reason	Comments
Sore Throat	C/o sore throat, nasal congestion, headache, fever, and chest congestions. Home test positive but doesn't know if it is accurate. Needs work note
Congestion	

RESULTS

- (ABNORMAL) COVID-19 PCR (04/16/2022 9:46 AM EDT):

Component	Value	Ref Range	Performed At	Pathologist Signature
SARS-CoV-2 PCR	POSITIVE (A)	Negative	UNCH REX LABORATORY	

Specimen

Nasopharyngeal Swab - Nasopharyngeal structure (body structure)

Narrative

UNCH REX LABORATORY - 04/16/2022 9:32 PM EDT

Testing was performed using the HOLOGIC Panther system Aptima SARS-CoV-2 test. Performance characteristics have been verified by UNC REX Healthcare Laboratories. A negative result does not rule out the possibility of infection and should be used in conjunction with other clinical findings as well as patient history. ◆ This test has not been FDA cleared or approved, and has been authorized by FDA under an Emergency Use Authorization (EUA). This test is only authorized for the duration of time the declaration that circumstances exist justifying the authorization of the emergency use of in vitro diagnostic tests for detection of SARS-CoV-2 virus and/or diagnosis of COVID-19 infection under section 564(b)(1) of the Act, 21 U.S.C. 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

For Providers: https://www.fda.gov/media/136313/download
For Patients: https://www.fda.gov/media/136312/download

eCR information

Sample eCR, continued

Sex Assigned at Birth   **Date Recorded**

Not on file

documented as of this encounter

ENCOUNTER DETAILS

Date	Type	Department	Care Team	Description
4/16/22	Office Visit	UNC Urgent Care at Knightdale 6602 KNIGHTDALE BOULEVARD Knightdale, NC 27545-6526 919-747-5210	Wood, Tara Rhue, DO 11200 Governor Manly Way RALEIGH, NC 27614 919-570-7660 (Work) 919-570-7661 (Fax) Ryder, Michael Patrick, DO 115 Kildaire Park Dr Cary, NC 27518 919-387-3180 (Work) 919-387-3145 (Fax)	Suspected COVID-19 virus infection (Primary Dx); Fever, unspecified; Nasal congestion; Throat pain; Acute intractable headache, unspecified headache type

Utilizing eCR data

- Person / Demographic Data

Demographic Information	
Social security number	111-11-1111
## Birth date	01/01/2000
Age	22
## Gender	Male ∨
Transgender?	Not Applicable ∨
^ *Race* ⊟	White ∨ Add New
^ *Hispanic ethnicity*	No ∨

Test Two

Patient Identifiers
123456 OID:
1.2.840.114350.1.13.374.2.7.3.688884.100
111-11-1111 United States Social Security Number
100002999520 OID: 2.16.840.1.113883.3.2629.1

ABOUT

Date of Birth	01/1/2000
Sex	Male
Race	White
Ethnicity	Not Hispanic or Latino

Utilizing eCR data

- Person / Demographic data, continued

Locating Information			
Verification of Reporting County is needed:	Yes ✓	NC County of Residence for the Event:	Wake County
^ Street address ℹ	1 Test Drive 1		
^ City/Town ℹ	Test City		
## State ℹ	NC	^ Zip code ℹ	27545
## County	✓	## Country ℹ	✓
Home phone ℹ	(123) 456-7890		
Mobile phone			
Work phone ℹ			
Other phone			
Preferred contact number	✓		
EMAIL address from the person tab	test@gmail.com		

CONTACT

Primary Home
1 Test Drive 1
Test city, NC
27545, USA
Primary Home
1 Test Drive
Test city, NC
27545
tel: (Primary Home) +1-123-456-7890
tel: (Mobile Contact) +1-123-456-7890
email: Test@gmail.com

Utilizing eCR data

- Person / Demographic data, continued

Alternate Contact Information

Add alternate contact (example: parent/guardian) [dropdown]

AGENT

(Spouse) 2156960
1.2.840.114350.1.13.374.2.7.2.827665

CONTACT

Primary Home
1 Test Drive
Test city, NC
27545, USA
tel: (Work Place) +1-
123-456-7890
tel: (Primary Home)
+1-123-456-7890

Utilizing eCR data

- Clinical package, Clinical Findings

Clinical Findings (including signs, symptoms, diagnostic tests, and complications)	
## Earliest (1st) symptom onset date (only required if symptomatic)	MM/DD/YYYY 📅
Indicate each of the clinical findings that the patient had associated with this illness.	
Fever	☐ ˅
Sweats (diaphoresis)	☐ ˅
Chills or rigors	☐ ˅
Headache	☐ ˅
Muscle aches / pains (myalgias)	☐ ˅
Sore throat	☐ ˅
Cough	☐ ˅
Shortness of breath / difficulty breathing / respiratory distress	☐ ˅
Acute Respiratory Distress Syndrome (ARDS)	☐ ˅
Did the patient have a chest x-ray?	☐ ˅
Chest CT scan performed	☐ ˅
Pneumonia	☐ ˅
Vomiting	☐ ˅
Abdominal pain or cramps	☐ ˅
Diarrhea	☐ ˅
New olfactory and taste disorder(s)	☐ ˅
Does the patient have another diagnosis/etiology for their respiratory illness that is not COVID-19?	☐ ˅
Other symptoms, signs, clinical findings, or complications consistent with this illness	☐ ˅
Please enter comments about signs, symptoms, and clinical findings only in this section.	

REASON FOR VISIT

Reason	Comments
Sore Throat	C/o sore throat, nasal congestion, headache, fever, and chest congestions. Home test positive but doesn't know if it is accurate. Needs work note
Congestion	

Description

Suspected COVID-19 virus infection (Primary Dx);
Fever, unspecified;
Nasal congestion;
Throat pain;
Acute intractable headache, unspecified headache type

Utilizing eCR data

- Clinical package, Reason for Testing

Reason for Testing	
Why was the patient tested for this condition? (check all that apply)	☑ Symptomatic of disease ☐ Screening of asymptomatic person ☐ Resident/staff of adult congregate living facility ☐ Household contact to a person reported with this disease ☐ Non-household close contact to a person reported with this disease ☐ Other ☐ Unknown

Identifying eCRs on Events

Identifying eCRs on Events

- In order to identify which events in your county have eCRs, there is a report available: Events with eCR activity

Identifying eCRs on Events

- Report output includes HTML, csv, and Excel

Events with eCR activity

NC County of Residence for the Event: Halifax County, Wake County
Disease: Coronavirus (COVID-19)
Report Period: 05/01/2022 - 05/11/2022
Report Time: 05/11/2022 02:28 PM

Event ID	Create Date	Disease	Status	First Name	Last Name	County	eCR received date	Reporting Organization Name	eCR unique identifier
COVID_117546170	05/11/2022	Coronavirus (COVID-19)	Open	Test	Two	Wake County	05/11/2022	Test Facility	1.2.840.114350.1.13.374.2.7.8.688883.5202445
COVID_117546171	05/11/2022	Coronavirus (COVID-19)	Open	Test	Three	Halifax County	05/11/2022	Test Health	1.2.840.114350.1.13.156.2.7.8.688883.1295310

Questions

For additional questions or assistance, please contact

Help Desk: 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