

# LCSR Overview & Data Submission Requirements

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Amanda Mayne, Quality and Safety

Stephanie Sykes, Quality and Safety

Debapriya Sengupta, Registry Data Analytics Manager

King Lo, IT Manager

Lu Meyer, Data Analyst

# What we will cover

- Benefits of Participating in LCSR
- LCSR Required Data Elements
- NRDR account setup overview: changes to account structure
- LCSR portal overview
  - How to submit data
  - Dealing with upload errors
  - LCSR aggregate report schedule
- Frequently asked questions

# Benefits of Participating in LCSR

- LCSR is approved by CMS to enable providers to meet quality reporting requirements for receiving Medicare CT lung cancer screening payment.
- Monitor and demonstrate the quality of CT lung cancer screening in your practice through periodic feedback reports
- Help refine and improve lung cancer screening for everyone.

# LCSR Required Data Elements

- The LCSR requires you to submit data from not only Medicare patients, but from all payers.
- In addition to data elements required by CMS, additional data elements are collected for LCSR participation, but not sent to CMS. In order to approve our registry, CMS assessed our performance as a quality registry and had *more requirements* than simply collecting the fields for CMS reporting. Our physician oversight committee recommended this list of required fields as what was needed to monitor quality appropriately.

[Decision Memo for Screening for Lung Cancer](#)

# NRDR Registration

With our new system upgrade, your Master facility ID was cancelled and a Corporate Account was created in its place. Corporate accounts were created for administrative purposes only. They do not function as a facility. If you now have a cancelled Master Facility ID and it's a true physical location where patients are seen and/or was previously submitting data, you will need to restart this location as a facility. Navigate to the *Facility Information* page and click "Restart". You will be redirected to the application page where you will need to click "next/skip" until your application is completed. (Be sure to click **submit** otherwise the status will be incomplete!)

# Complete a 'New Corporate Account Registration'

- The corporate account is an “umbrella” account for handling all administrative tasks- was previously known as a master facility
- Add facilities- each physical location where a patient received an imaging exam- previously known as a child facility
- If you are uncertain if your locations are currently registered submit a ticket at <http://nrdrsupport.acr.org> so that it can be researched
- If you do not see LCSR listed, you will need to register this facility for LCSR
- If your Status is Submitted, we need a signed agreement/addendum to change the status to Accepted
- If some facilities are Accepted and some are Submitted, please submit a ticket so that all facilities can be updated to Accepted

| Registry | Submission Date | Status   |  |
|----------|-----------------|----------|--|
| CTC      | 01/02/2008      | Accepted |  |
| DIR      | 02/08/2011      | Accepted |  |
| LCSR     | 03/25/2016      | Accepted |  |
| NMD      | 04/14/2015      | Accepted |  |

# NRDR Accounts and Profiles

| Permission  | Corp. Acct. Admin. | Facility Admin. | Registry Admin. | Facility User | Service User |
|---|--------------------|-----------------|-----------------|---------------|--------------|
| View invoices and account balance                             | Y                  |                 |                 |               |              |
| Submit online payment to ACR                                  | Y                  |                 |                 |               |              |
| Enroll a facility in NRDR                                     | Y                  |                 |                 |               |              |
| Change facility information                                   | Y                  | Y               |                 |               |              |
| Enroll a facility in one or more registries                   | Y                  | Y               |                 |               |              |
| Invite, update, remove Registry Administrators                | Y                  | Y               |                 |               |              |
| Assign Registry Administrators to specific registries         | Y                  | Y               |                 |               |              |
| Invite, update, remove Facility Users                         | Y                  | Y               | Y               |               |              |
| Assign Facility Users to a registry                           | Y                  | Y               | Y               |               |              |
| Reset passwords   | Y                  | Y               |                 |               |              |
| Invite, update, and remove physicians in physician dictionary | Y                  | Y               | Y               | Y             |              |
| Add, updated, and remove physician groups                     | Y                  | Y               | Y               | Y             |              |
| Add Physician Group TIN                                       | Y                  | Y               | Y               | Y             |              |
| Add, update, and remove records in patient dictionary         |                    | Y               | Y               | CTC*          |              |
| Access user dictionary  |                    | Y               | Y               | Y             |              |
| Submit data (patient forms, exams, etc.)                      |                    | Y               | Y               | Y             |              |
| View aggregate reports  | Y                  | Y               | Y               | Y             |              |
| View detailed reports   |                    | Y               | Y               | Y             |              |
| Create DIR Exam Name Mappings at corporate account level      | Y                  |                 |                 |               | Y            |
| Create DIR Exam Name Mappings at facility level               | Y                  | Y               | Y               | Y             | Y            |

\* CTC Registry Facility Users can add patients indirectly by entering patient information on data collection forms for a new patient. Facility Users may not change or remove patient records.

# Manage Physicians

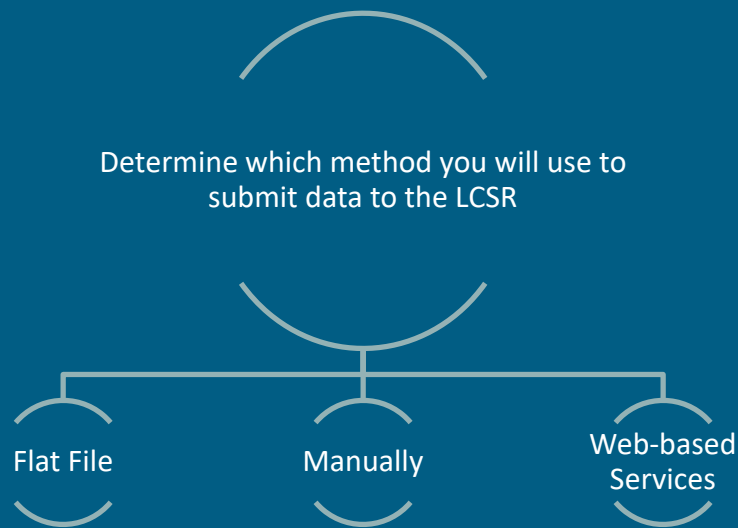
- Physicians must be at all facilities- first need to select the facility, where he or she practices, from the facility picker in the upper right corner then go to the Manage Physicians tab on the left hand column.

- TIN is not required for LCSR

|  |              |   |  |
|--|--------------|---|--|
| <b>Add New Physician</b>   |              | <b>Export Physician List</b>                                  |  |
| <b>Add New Physician</b>   |              |   |  |
| Status   | Active ▼     |   |  |
| First Name   | NRDR         |   |  |
| Last Name  | Test         |   |  |
| E-mail   | nrdr@acr.org |   |  |
| Confirm E-mail   | nrdr@acr.org |   |  |
| Phone  |              |   |  |
| Provider Type  | M.D. ▼       |   |  |
| NPI  | 1234567890   |   |  |
| Will data from this corporate account be submitted for CMS quality reporting for this physician? ⓘ |              | <input type="radio"/> Yes <input checked="" type="radio"/> No |  |
| Is this physician a member of ACR?   |              | <input type="radio"/> Yes <input checked="" type="radio"/> No |  |



# How to Submit LCSR Data



Flat File Uploads

Manual Data Submission

Web Services

|                               |
|-------------------------------|
| LCSR                          |
| Forms and Data Dictionary     |
| Exam Form                     |
| Data Dictionary               |
| Data Collection               |
| Data File Process Status      |
| Exam                          |
| LCSR Data Submission Overview |
| Registry Management           |
| Registration Information      |
| Reports                       |
| Accrual                       |
| Exam Status                   |
| LCSR Reports Overview         |
| Transaction Status            |
| NRDR                          |

# LCSR Data Entry Resources

- The [LCSR Data Dictionary](#) describes all of the data elements for the Lung Cancer Screening registry, including whether or not a field is required and what responses are valid.
- Click [LCSR Data Elements](#) for the data elements required for LCSR participation.

# Accessing the Exam Form

# Exam Search


☐ Filter

Exams found: 8

| Exam #               | Exam Status | Patient      | Registration Date |
|----------------------|-------------|--------------|-------------------|
| <a href="#">3708</a> | In Progress | Tester T     | 08/02/2017        |
| <a href="#">3257</a> | Completed   | kamdar viral | 03/30/2017        |
| <a href="#">3256</a> | In Progress |              | 03/31/2017        |
| <a href="#">3255</a> | In Progress |              | 02/24/2017        |
| <a href="#">3254</a> | In Progress |              | 02/24/2017        |

☐ Filter

**Exam Information**

|                      |   |
|----------------------|---|
| Exam #               | <input type="text"/>  |
| Exam Status          | <input type="text"/>  |
| Completion Exam Date | <input type="text"/>  (mm/dd/yyyy) |

**Patient Information**

|            |                      |
|------------|----------------------|
| Patient Id | <input type="text"/> |
| First Name | <input type="text"/> |
| Last Name  | <input type="text"/> |

**Radiologist**

|            |                      |
|------------|----------------------|
| First Name | <input type="text"/> |
| Last Name  | <input type="text"/> |

Search

Reset

Exams found: 8

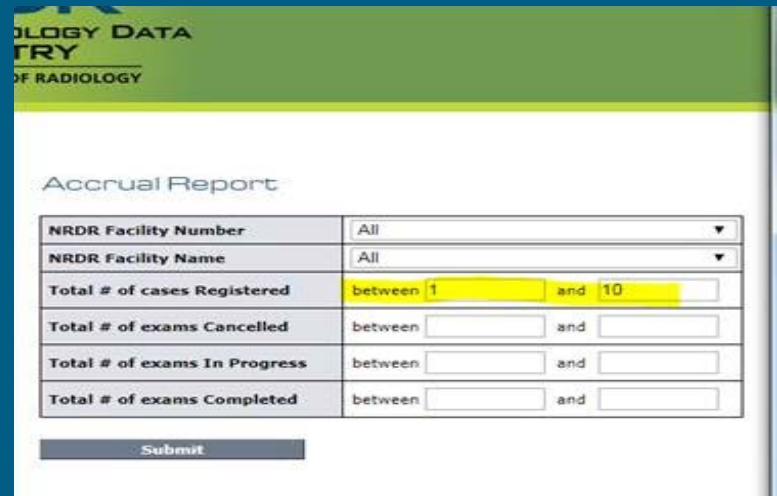
| Exam #               | Exam Status | Patient      | Registration Date |
|----------------------|-------------|--------------|-------------------|
| <a href="#">3708</a> | In Progress | Tester T     | 08/02/2017        |
| <a href="#">3257</a> | Completed   | kamdar viral | 03/30/2017        |

# LCSR Available Reports

- 1) Accrual
- 2) LCSR Quarterly Aggregate Report
  - LCSR PDF Reports
  - LCSR Excel Reports
  - LCSR Corporate account-facility report (previously master child report): corporate facilities does not receive a PDF aggregate report.

# LCSR Accrual Report

The Accrual report shows the total number of exams per facility that have been registered, cancelled, and completed at the user's facility, as well as the number of exams in progress. You can also confirm if your data was submitted using the Exam tab. Under Exam Status is will either say completed or in progress.

A screenshot of a web-based form titled "Accrual Report". The form is set against a light green header with the text "RADIOLOGY DATA ENTRY" and "OF RADIOLOGY". The form itself has a white background. It contains several input fields for filtering data: "NRDR Facility Number" and "NRDR Facility Name" are dropdown menus, both currently set to "All". Below these are four rows of range filters: "Total # of cases Registered" (between 1 and 10), "Total # of exams Cancelled" (between and), "Total # of exams In Progress" (between and), and "Total # of exams Completed" (between and). The numbers 1 and 10 in the first row are highlighted in yellow. At the bottom of the form is a grey "Submit" button.

| Accrual Report                        |                  |
|---------------------------------------|------------------|
| NRDR Facility Number                  | All              |
| NRDR Facility Name                    | All              |
| Total # of cases Registered           | between 1 and 10 |
| Total # of exams Cancelled            | between and      |
| Total # of exams In Progress          | between and      |
| Total # of exams Completed            | between and      |
| <input type="button" value="Submit"/> |                  |

# LCSR Quarterly Aggregate Report

ACR NRDR Homepage

Information For Facilities

Participation Agreement

Registries

Registration

CTC

DIR

GRID

IR

LCSR

MIPS Participation Portal

NHD

Facility Management

Registration Information

Manage User Profiles

Manage Physicians

Manage Physician Group TIN

Physician Summary

Manage Sites

Online Payment for Facility

Invoice

Invoice for Physician

Registration Summary

Portal Management

E-mail History

Manage Registries

Manage Registry Fee

Broadcast Message

Transform Existing Data

Export Log

Aggregate Reports

Aggregate Reports - Backend Upload History

Manage User Accounts

User: Amanda Mayne | Facility: 100853: Public Facility

Filter

Report description

Facility

Registry

Date

Upload status

Search

Reset

|                          | Description              | File name                                | Upload date/time    | Facility Name   | Facility ID | Name of Registry | User name     | Status | Rejection Reason | Modification | Auto/ Manual |                          |                      |                        |
|--------------------------|--------------------------|--|---------------------|-----------------|-------------|------------------|---------------|--------|------------------|--------------|--------------|--------------------------|----------------------|------------------------|
| <input type="checkbox"/> | PhysicianReport31DEC2017 | LCSR_100853_PhysicianReport31DEC2017.pdf | 03/10/2018 04:05:37 | Public Facility | 100853      | LCSR             | UploadService | Posted |                  |              | A            | <a href="#">Download</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |
| <input type="checkbox"/> | FacilityReport31DEC2017  | LCSR_100853_FacilityReport31DEC2017.pdf  | 03/10/2018 04:05:37 | Public Facility | 100853      | LCSR             | UploadService | Posted |                  |              | A            | <a href="#">Download</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |

Recall

Roll

Cancel

Post

☒ Manual Reports upload

☐ Automated Reports upload

# LCSR Aggregate Report Schedule

| Reporting Period | Data Submission Deadline | Reports available |
|------------------|--------------------------|-------------------|
| Jan-Mar          | April 30 <sup>th</sup>   | May-Jun           |
| Jan-Jun          | July 31 <sup>st</sup>    | Aug-Sep           |
| Jan-Sep          | Oct 31 <sup>st</sup>     | Nov-Dec           |
| Jan-Dec          | Jan 31 <sup>st</sup>     | Feb-Mar           |

Data submission reminder emails are meant to serve as a reminder that we are nearing the end of the reporting quarter and you have 30 additional days to submit data in order for it to be included in this quarters aggregate reports. Any data not submitted by the deadline will be included in the next quarters report.



# LCSR Facility Report (PDF and Excel)

Table: LCSR measures for 2017

| Measure   |   |       |             |       |               |       |           | ( Master ) |               | All LCSR |                    |
|---|---|-------|-------------|-------|---------------|-------|-----------|------------|---------------|----------|--------------------|
|   |   | Rate  | Num-Den     | Rate  | Num-Den       | Rate  | Num-Den   | Rate       | Num-Den       | Rate     | Num-Den            |
| All Exams                                       |   | 76    | 76          | 160   | 160           | 7     | 7         | 243        | 243           | 110435   | 110435             |
| Appropriateness of screening by USPSTF criteria |   | 78.95 | ( 60 / 76 ) | 73.75 | ( 118 / 160 ) | 100   | ( 7 / 7 ) | 76.13      | ( 185 / 243 ) | 90       | ( 99392 / 110435 ) |
| Smoking cessation offered                       |   | 69.74 | ( 53 / 76 ) | 70.63 | ( 113 / 160 ) | 71.43 | ( 5 / 7 ) | 70.37      | ( 171 / 243 ) | 77.66    | ( 55596 / 110435 ) |
|   | Smoking cessation offered among current smokers | 88.1  | ( 37 / 42 ) | 82.11 | ( 78 / 95 )   | 80    | ( 4 / 5 ) | 83.8       | ( 119 / 142 ) | 85.72    | ( 64855 / 75645 )  |

- Aggregate measures for facilities compared to other sites by type, location, geographical region, and to entire registry
- Excel spreadsheet with same data as National Comparison table in Quarterly Aggregate Report

# LCSR Corporate Report (Excel)

|    | A   | B   | J                    | K       | L    | M       | N     | O          | AW     | AX              | A    | AZ      | BA |
|----|---|---|----------------------|---------|------|---------|-------|------------|--------|-----------------|------|---------|----|
| 1  | Table: LCSR measures for 2017                       |   |                      |         |      |         |       |            |        |                 |      |         |    |
| 2  |   |   |                      |         |      |         |       |            |        |                 |      |         |    |
| 3  | Measure   |   | Corporate ) All LCSR |         |      |         |       |            |        |                 |      |         |    |
| 4  |   |   | Rate                 | Num-Den | Rate | Num-Den | Rate  | Num-Den    | Rate   | Num-Den         | Rate | Num-Den |    |
| 5  | All Exams   |   | 82                   | 82      | 48   | 48      | 1095  | 1095       | 276567 | 276567          |      |         |    |
| 6  | Appropriateness of screening by USPSTF criteria (%) |   | 89                   | 73 / 82 | 95.8 | 46 / 48 | 90.5  | 991 / 1095 | 90.13  | 249268 / 276567 |      |         |    |
| 7  | Smoking cessation counselling offered (%)           |   | 96.3                 | 79 / 82 | 100  | 48 / 48 | 72.88 | 798 / 1095 | 77.06  | 213111 / 276567 |      |         |    |
| 8  |   | Smoking cessation counselling offered among current smokers (%) | 94.7                 | 36 / 38 | 100  | 23 / 23 | 84.45 | 505 / 598  | 84.97  | 138767 / 163333 |      |         |    |
| 9  | Radiation exposure 1                                | Mean CTDIvol - Overall (mGy)                                    | 2.19                 | NA / 82 | 2.73 | NA / 48 | 2.92  | NA / 1095  | 3.24   | NA / 276567     |      |         |    |
| 10 |   | Mean CTDIvol - underweight (BMI <18.5 )(mGy)                    | 2.22                 | NA / 2  | 2.72 | NA / 1  | 2.11  | NA / 29    | 2.66   | NA / 11333      |      |         |    |
| 11 |   | Mean CTDIvol - normal (BMI of 18.5–24.9)(mGy)                   | 2.31                 | NA / 21 | 2.74 | NA / 18 | 2.52  | NA / 279   | 2.61   | NA / 69296      |      |         |    |
| 12 |   | Mean CTDIvol - overweight (BMI of 25–29.9 )(mGy)                | 2.19                 | NA / 32 | 2.72 | NA / 17 | 3.27  | NA / 381   | 3.12   | NA / 90161      |      |         |    |
|    |   | Mean CTDIvol - obese (BMI of 30 or more)(mGy)                   |                      |         |      |         |       |            |        |                 |      |         |    |

- Corporate accounts do not receive a PDF report. For each corporate account an excel spreadsheet comparison report is available that shows the facility level measures for all child facilities side by side.

# FAQ's

## 1) Why can't I see any reports when trying to export lung data?

It's likely that if you're not transmitting data it's because you have the corporate site selected in the facility picker in the upper right corner. Make sure you are selecting the "child" facility in the drop down in order to perform the export.

## 2) When trying to enter a patient, I receive a pop-up stating duplicate case. I attempted to cancel the exam and re-enter, but it still won't accept the data.

It's likely the patient has already been entered into the system from a previous exam. In order to check, once you've logged in to NRDR select the 'Manage Patients' tab from the menu on the left side of the page. Use the filter to search for the patient in question (please use the Manage Patients tab to determine which identifier was used). If you are trying to enter an annual exam, select register new exam from the NRDR page and use the **purple search bar** to search for your existing patient. If you are trying to enter a follow-up, i.e. 3-6 month biopsy, additional imaging, or surgery then you must go into the exam form, scroll towards the bottom (section b), expand and add the follow-up information to the patients screenings.

# FAQ's

## **3) Do exams need to be entered into the registry if a patient had a scan for something unrelated a few months after their initial exam?**

Any follow-up exams cannot be submitted to the LCSR if the screening that preceded it was performed at a facility external to your healthcare system. As a caveat, if the follow-up was performed inside your healthcare system, but not in the same location as the screening, provide the follow-up exam information to the facility that performed the screening so the two are matched.

## **4) Can we request for an extension for submitting LCSR data?**

You must have your data submitted to the “child” facility 30 days after the end of the quarter in order to have it incorporated in the current quarterly reporting cycle. Any data not provided by the deadline will be incorporated in the next feedback report.

Please see data submission schedule slide for details

## **5) Should we include the scout (CT scan projection radiograph) for CTDIvol?**

If possible, please exclude it. The data elements should be focused on the actual CT scan itself.

# FAQ's

## 6) Why is my Lung-RAD score not an option?

Round up to the next closest score that's available.

**\*\*If the facility has ACR Lung Cancer Screening Center designation, then the reconstructed slice thickness must be  $\leq 2.5$  mm.**

## 7) In the event of a full-dose CT being completed by mistake instead of a low-dose exam, would it be appropriate to enter this case in the registry?

Yes, you should still enter the data into the registry. The registry is for collecting information on all exams- where the purpose of the exam was screening. Ideally, it would be done with low dose. But, if it is done at full dose, you should just enter the exam and the CTDIvol and DLP that was associated with that particular exam.

## 8) As patients get a screening and has a normal screen, but ultimately comes back for a repeat screen; how do we log a change in score?

It should be entered as a new screening exam.

For example, the patient will have one screen with 2S, and one with 4B.

# Contact Us

## Submit a Ticket

**NRDR Help:** <http://nrdrsupport.acr.org>

**Email:** [nrdrsupport@acr.org](mailto:nrdrsupport@acr.org)

**Phone:** (703) 648-8729