

Philippine
Cancer
Society



PCSMCRIS

Philippine Cancer Society Manila Cancer Registry Information System

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Philippine Cancer Society Manila Cancer Registry Information System (PCSMCRIS) – User Manual

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1. INTRODUCTION

The **PCSMCRIS** centralizes hospital and patient cancer records, validates data integrity, and supports senior registrar oversight, ensuring compliance with W.H.O / D.O.H standards.

Purpose: Efficient data collection, validation, merging, and reporting.

Scope: Covers all system functionalities: data import, validation, record management, merging, finalization, reporting, and user management.

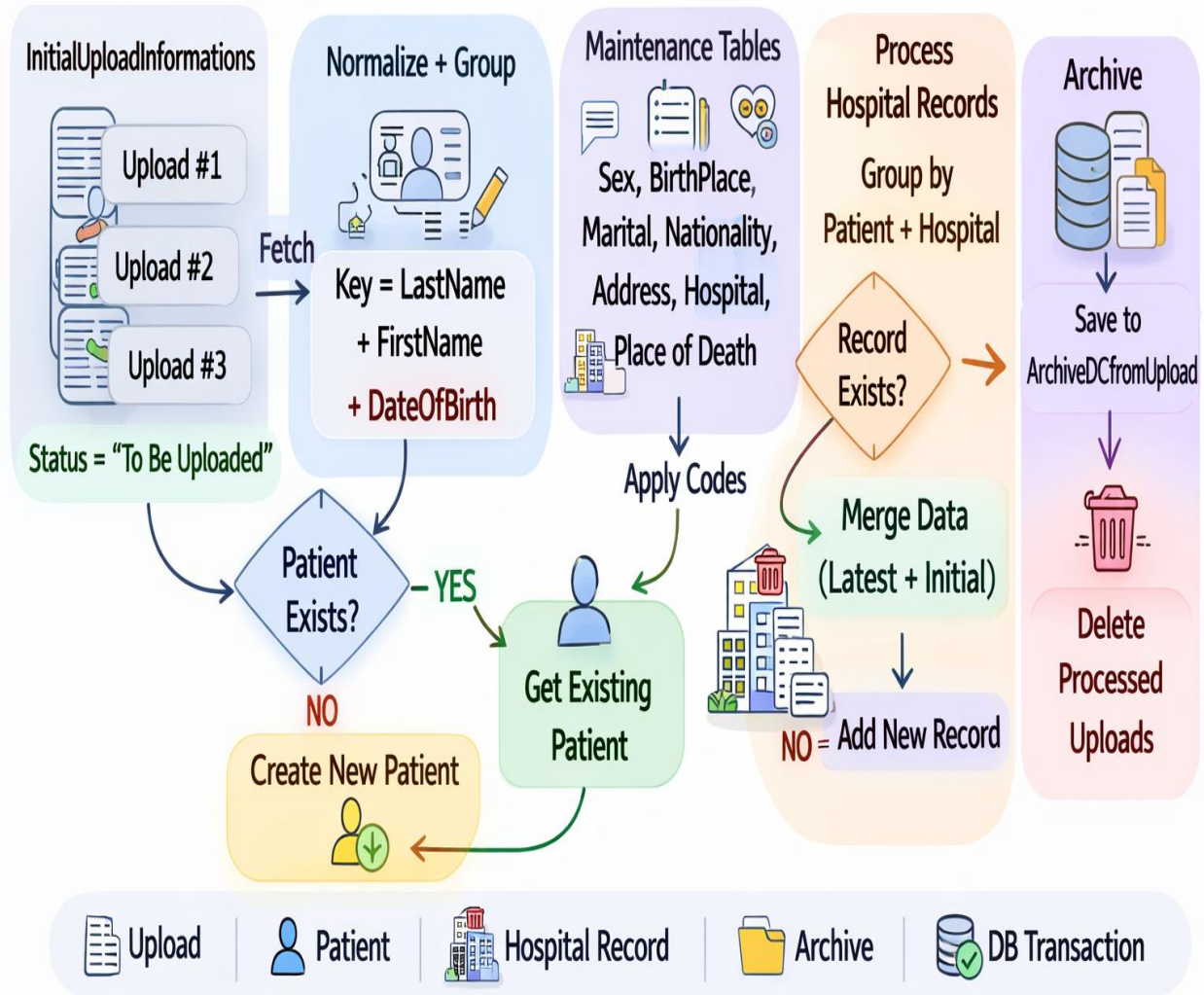
Intended Users: Data Collection, Senior Registrar, Program Manager/Admin.

2. SYSTEM WORKFLOW OVERVIEW

Confirmed Workflow:

1. Login
 2. Dashboard
 3. Import Excel (Data Collection)
 4. Validate → Failed Rows
 5. Store Raw Data
 6. Edit Raw Patient + Hospital Records
 7. Transfer to Clean / Merge
 8. Merge Patients
 9. Senior Registrar Final Input
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-

DataCollectionService.ProcessUploadsAsync() Flow



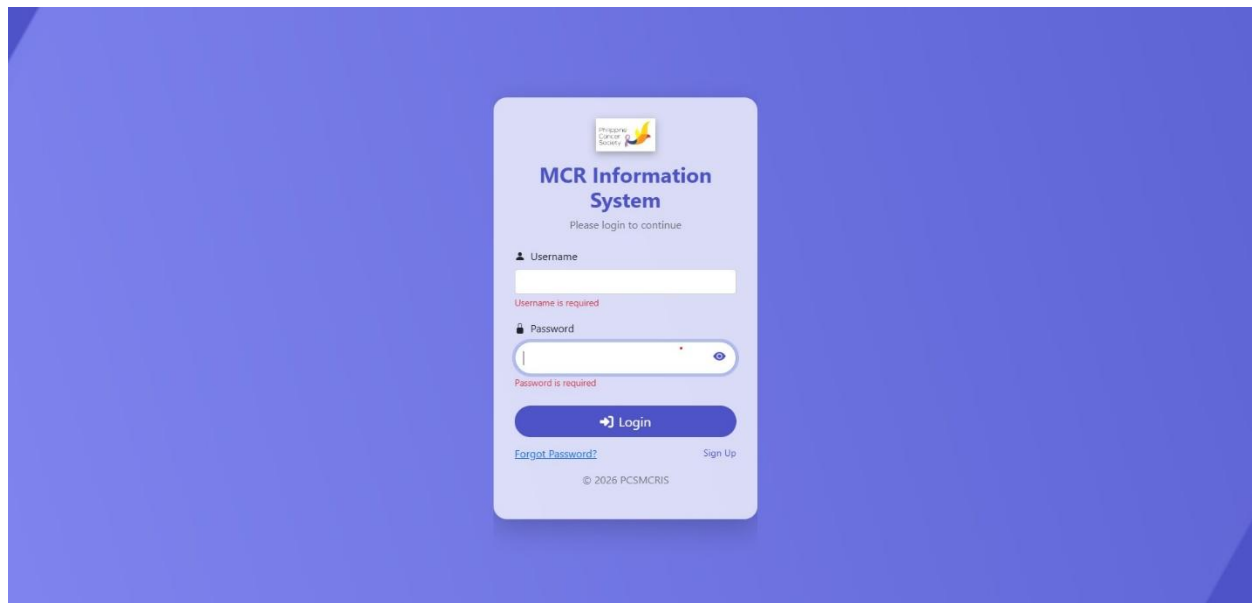
3. USER ROLES & PERMISSIONS

Role	Access	Main Responsibilities
Data Entry	Encoder Access	Import Excel, Validate, Edit Raw Records
Senior Registrar	Registrar Access	Review and approve merged records, add ICD-O codes
Program Manager/Admin	Admin Access	User management, system configuration, reports & dashboards

4. MODULE WALKTHROUGHS

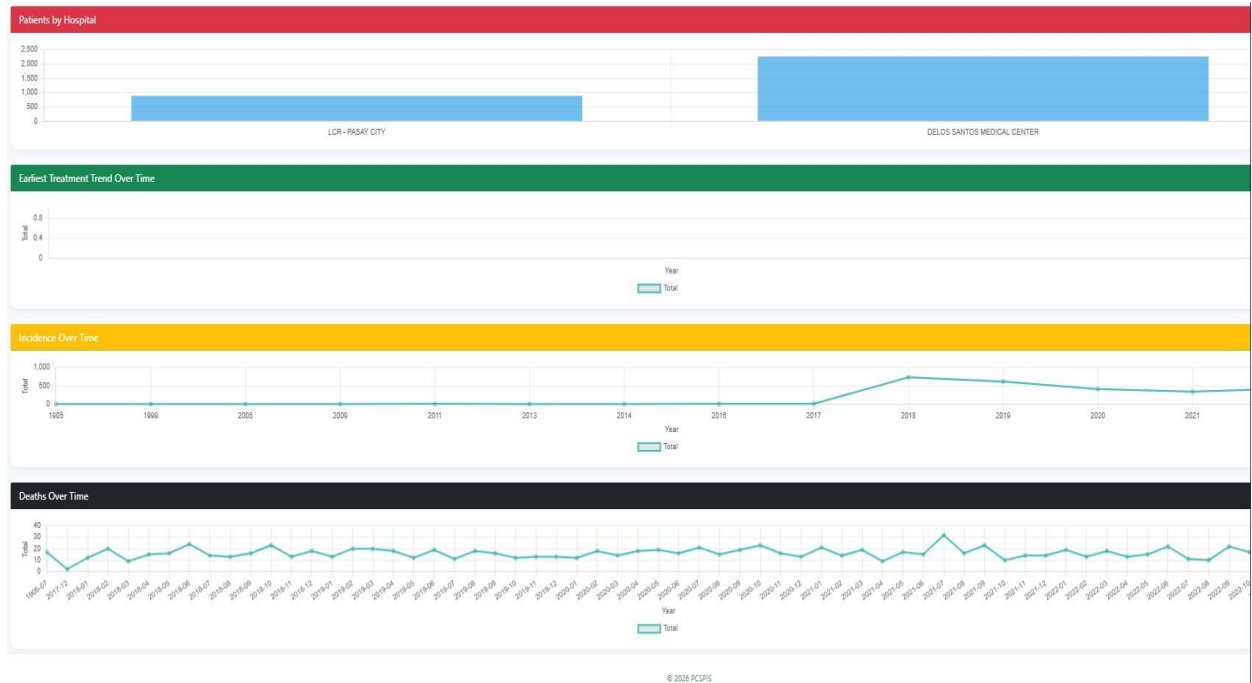
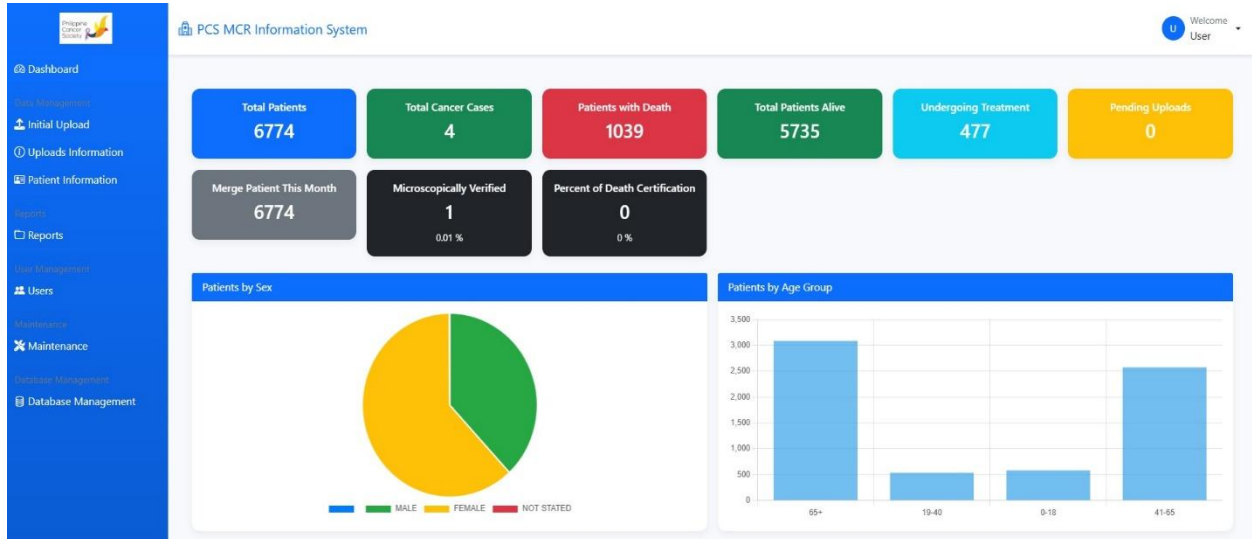
LOGIN MODULE

- Navigate to [/Account/Login](#)
- Enter credentials
- System redirects to dashboard based on role



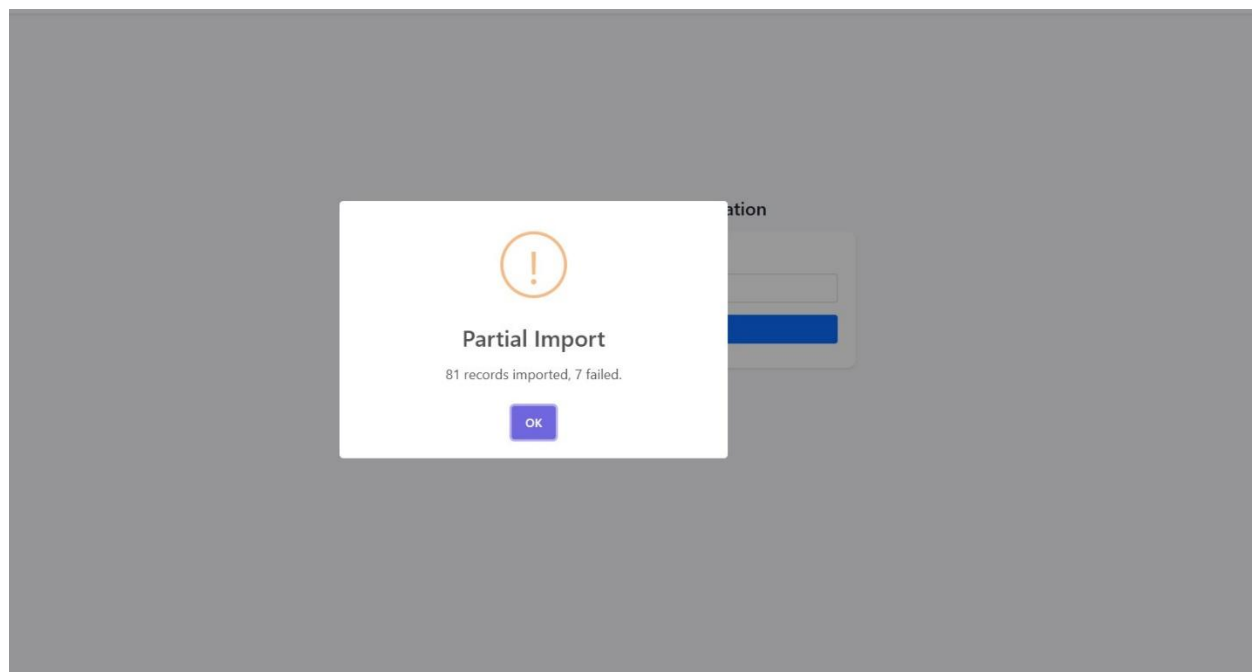
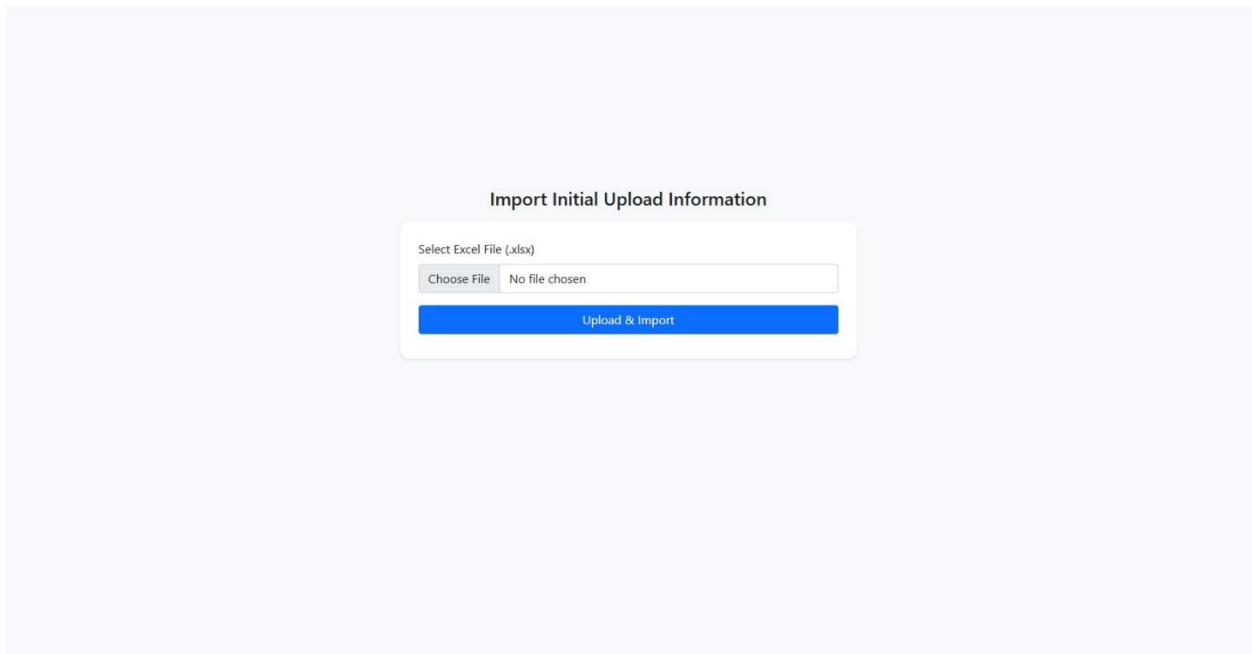
DASHBOARD

- Overview of pending validations, total records, and recent activity
- Quick links: Import, Validate, Merge, Reports



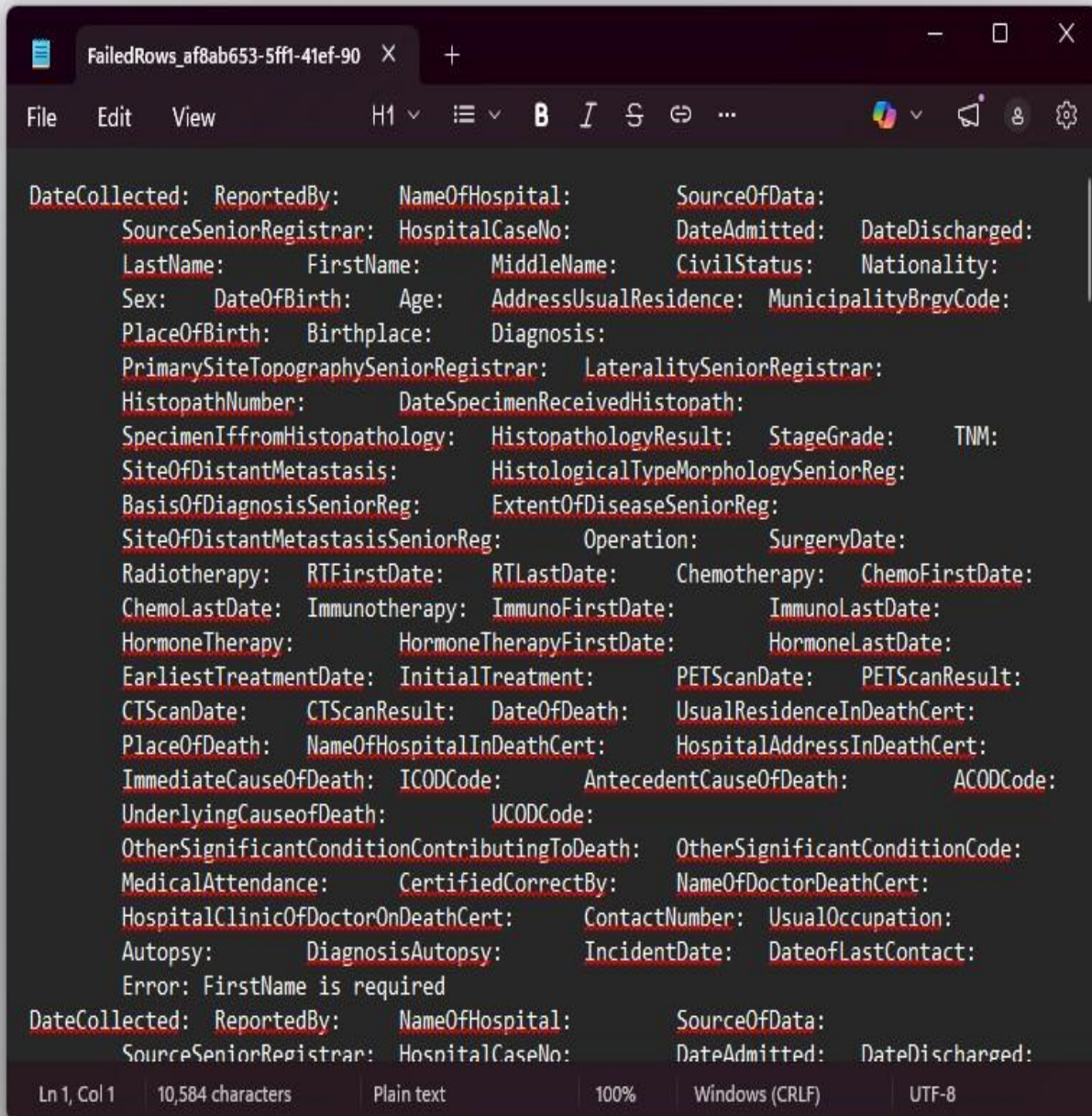
IMPORT EXCEL (DATA COLLECTION)

- Upload hospital datasets in correct template format
- System previews and validates data



VALIDATION & FAILED ROWS

- Invalid rows flagged for correction
- Export failed rows for editing



The screenshot shows a text editor window titled "FailedRows_af8ab653-5ff1-41ef-90". The text content is a list of medical data fields, with the error message "Error: FirstName is required" highlighted in red. The fields are:

```
DateCollected: ReportedBy: NameOfHospital: SourceOfData:
SourceSeniorRegistrar: HospitalCaseNo: DateAdmitted: DateDischarged:
LastName: FirstName: MiddleName: CivilStatus: Nationality:
Sex: DateOfBirth: Age: AddressUsualResidence: MunicipalityBrgyCode:
PlaceOfBirth: Birthplace: Diagnosis:
PrimarySiteTopographySeniorRegistrar: LateralitySeniorRegistrar:
HistopathNumber: DateSpecimenReceivedHistopath:
SpecimenIffromHistopathology: HistopathologyResult: StageGrade: TNM:
SiteOfDistantMetastasis: HistologicalTypeMorphologySeniorReg:
BasisOfDiagnosisSeniorReg: ExtentOfDiseaseSeniorReg:
SiteOfDistantMetastasisSeniorReg: Operation: SurgeryDate:
Radiotherapy: RTFirstDate: RTLastDate: Chemotherapy: ChemoFirstDate:
ChemolastDate: Immunotherapy: ImmunoFirstDate: ImmunoLastDate:
HormoneTherapy: HormoneTherapyFirstDate: HormoneLastDate:
EarliestTreatmentDate: InitialTreatment: PETScanDate: PETScanResult:
CTScanDate: CTScanResult: DateOfDeath: UsualResidenceInDeathCert:
PlaceOfDeath: NameOfHospitalInDeathCert: HospitalAddressInDeathCert:
ImmediateCauseOfDeath: ICDCode: AntecedentCauseOfDeath: ACODCode:
UnderlyingCauseofDeath: UCODCode:
OtherSignificantConditionContributingToDeath: OtherSignificantConditionCode:
MedicalAttendance: CertifiedCorrectBy: NameOfDoctorDeathCert:
HospitalClinicOfDoctorOnDeathCert: ContactNumber: UsualOccupation:
Autopsy: DiagnosisAutopsy: IncidentDate: DateofLastContact:
Error: FirstName is required
DateCollected: ReportedBy: NameOfHospital: SourceOfData:
SourceSeniorRegistrar: HospitalCaseNo: DateAdmitted: DateDischarged:
```

Ln 1, Col 1 | 10,584 characters | Plain text | 100% | Windows (CRLF) | UTF-8

STORE RAW DATA

- Validated rows stored in **PatientRaw** and **HospitalRecordRaw**
- Audit logs track source and user

Patient Records

Manage uploaded and pending patient data records

[Transfer Data Collection](#)

Last Name	First Name	Date of Birth	Hospital	Date Collected	Status	Actions
ABOY	MARLENE	Jul 03, 1959	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
ABRAGANTE	JULIANA	Aug 17, 1949	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
ACUNA	RONALD	Oct 21, 1964	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
AGTANONG	EDUARDO	May 06, 1957	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
AGUILAR	EARL JOSEPH	Mar 15, 1996	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
AGUINALDO	RAFAEL NOAH	Dec 17, 2011	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
ALVIAR	CRYSTAL ANN	May 06, 1987	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
APOLINARIO	AMBROCIO	Sep 19, 1957	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
APOLINARIO	SID AARON	Apr 03, 1982	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit
AQUINO	ADELI	Dec 31, 1965	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Updated	View Edit

< Previous 1 Next >

EDIT RAW PATIENT + HOSPITAL RECORDS

- Correct records bound to **PatientViewModel** and **MCRDiagnosisSummaryViewModel**
- Changes tracked for audit

General Information

Date Collected	Reported By	Source of Data	Source Senior Registrar
<input type="text" value="07/04/2025"/>	<input type="text" value="AGCAOILI, SAIRA"/>	<input type="text" value="MEDICAL RECORDS"/>	<input type="text" value="Select or type Source"/>
Hospital	Hospital Code		
<input type="text" value="HOSPITAL OF INFANT JESUS"/>	<input type="text" value="018"/>		
Hospital Case No	Date Admitted	Date Discharged	
<input type="text" value="1902035"/>	<input type="text" value="08/31/2019"/>	<input type="text" value="08/31/2019"/>	

Patient Information

Last Name	First Name	Middle Name
<input type="text" value="ABOY"/>	<input type="text" value="MARLENE"/>	<input type="text"/>
Sex	Date of Birth	Age
<input type="text" value="FEMALE"/>	<input type="text" value="07/03/1959"/>	<input type="text" value="66"/>
Civil Status	Nationality	
<input type="text" value="MARRIED"/>	<input type="text" value="FILIPINO"/>	
Address Usual Residence		
<input type="text" value="MARILAO, BULACAN"/>		
Municipality/Brgy	Address Code	Place of Birth
<input type="text" value="NONCATCHMENT AREA"/>	<input type="text"/>	<input type="text"/>
BirthPlace	BirthPlace Code	
<input type="text" value="Select or type BirthPlace"/>	<input type="text"/>	

TRANSFER TO CLEAN / MERGE

- Move verified records for merging duplicates

Patient Records

Manage uploaded and pending patient data records

SEARCH BY NAME, HOSPI


Transfer Data Collection

Last Name	First Name	Date of Birth	Hospital	Date Collected	Status	Actions
ABOY	MARLENE	Jul 03, 1959	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
ABRAGANTE	JULIANA	Aug 17, 1949	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
ACUNA	RONALD	Oct 21, 1964	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
AGTANONG	EDUARDO	May 06, 1957	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
AGUILAR	EARL JOSEPH	Mar 15, 1996	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
AGUINALDO	RAFAEL NOAH	Dec 17, 2011	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
ALVIAR	CRYSTAL ANN	May 06, 1987	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
APOLINARIO	AMBROCIO	Sep 19, 1957	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
APOLINARIO	SID AARON	Apr 03, 1982	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit
AQUINO	ADELI	Dec 31, 1965	HOSPITAL OF INFANT JESUS	Jul 04, 2025	To Be Uploaded	View Edit

< Previous
1
Next >

MERGE PATIENTS

- Apply duplicate detection logic (name, birthdate, hospital ID)
- Merge MCRDiagnosisSummaries intelligently
- Conflicts flagged for review




Patient Records

Manage uploaded and pending patient data records

[➔ Transfer Data Collection](#)

Date of Birth	Hospital	Date Co
Jul 0		Jul 04, 2
Aug		Jul 04, 2
Oct		Jul 04, 2
May		Jul 04, 2
Mar		Jul 04, 2
Dec		Jul 04, 2
May		Jul 04, 2
Sep 19, 1957	HOSPITAL OF INFANT JESUS	Jul 04, 2
Apr 03, 1993	HOSPITAL OF INFANT JESUS	Jul 04, 2



Processed!

Data transfer completed successfully.

[OK](#)

Patient Information

SEARCH PATIENT NAME...

Last Name ▲	First Name	Middle Name	Date of Birth	Sex	Hospital Records	Patient Status	Status Tag	Actions
ABADEZA	ESTRELLA	BONDOC	1948-12-22	FEMALE	1	Active	to be updated	
ABADILLA	LYDIA	AGUILAR	1949-02-17	FEMALE	1	Active	to be updated	
ABALETA	LARA GRACE	ARCALA	1995-11-12	FEMALE	1	Active	to be updated	
ABALOS	ROLANDO	ORTIZ	1969-05-25	MALE	1	Inactive	to be updated	
ABAPO	EVELYN	CAELMARE	1975-03-04	FEMALE	1	Inactive	to be updated	
ABAYON	MEMIA	BITAMOR	1956-04-24	FEMALE	1	Active	to be updated	
ABE	JULIET	RABANG	1944-02-15	FEMALE	1	Active	to be updated	
ABEDES	MARY JANE	FERRER	1971-02-11	FEMALE	1	Active	to be updated	
ABELLO	FELIZA	LAGARE	1932-05-02	FEMALE	1	Inactive	to be updated	
ABENIS	ERLINDA	ODITA	1945-07-01	FEMALE	1	Active	to be updated	

« Previous **1** Next » Page 1 – more pages available

Patient Information

Patient ID	Last Name	First Name	Middle Name
5308F496-E7FD-452D-84D8-6867C98C6C4B	ABADEZA	ESTRELLA	BONDOC
Date of Birth	Age	Sex	Civil Status
1948-12-22	77	FEMALE	NOT SPECIFIED
Nationality			
FILIPINO			
Usual Residence			
203 DR. ALEJOS STREET LALOMA PAANG BUNDOK QUEZON CITY			
Place of Birth	Birthplace		

Merged Hospital Record

Hospital Name	Hospital Code	Source of Data
DELOS SANTOS MEDICAL CENTER	011	HISTOPATHOLOGY
Hospital Case No	Date Admitted	Date Discharged
12182	2019-11-22	2019-12-06
Diagnosis		
IDCA NG2 1.ZCM MALIGNANT NEOPLASM OF THYROID GLAND		
Histopath Number	Date Specimen Received	
S19-1651	2019-07-27	
Histopathology Result		
Stage / Grade	TNM	
Operation	Surgery Date	
CNB		

SENIOR REGISTRAR FINAL INPUT

- Approve or request corrections
- Add topography, morphology, behavior codes (ICD-O)

Registry Standardization for Senior Reg. (Editable)

Primary Site / Topography	Topography Code
BREAST	50
Laterality	Laterality Code
LEFT	2
Histological Type / Morphology	Morphology Code
Select	
Basis of Diagnosis	Basis of Diagnosis Code
Select	
Extent of Disease	Extent Code
Select	
Site of Distant Metastasis	Metastasis Code
Select	
Incident Date	Date of Last Contact
07/27/2019	12/06/2019

[Save Registry Data](#) [Back](#)

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FINAL CLEAN RECORD

- Approved records marked final
- Locked for edits (except by Admin)

Patient Full Details

← Back [Patient Records Print Preview](#) [Export Patient Records PDF](#) [Print DeathCertAbstract](#) [Export DeathCertAbstract PDF](#)

👤 Patient Information

Last Name ABADEZA			Patient Name			Middle Name BONDOC		
Date of Birth December-22-1948			Age 77			Sex FEMALE		
Civil Status NOT SPECIFIED		Nationality FILIPINO		Place of Birth				
Usual Residence 203 DR. ALEJOS STREET LALOMA PAANG BUNDOK QUEZON CITY				Municipality/Qty				

🏥 Hospital & Treatment Records

ABADEZA, ESTRELLA BONDOC — [DELOS SANTOS MEDICAL CENTER \(MCR RegistryNo: \)](#) (Incident Date: 2019-07-27) (Admitted: 2019-11-22)

🏥 Hospital Details

Hospital Name DELOS SANTOS MEDICAL CENTER	Hospital Code 011		
Source of Data HISTOPATHOLOGY	Hospital Case No 12182		
Date Admitted 2019-11-22	Date Discharged 2019-12-06		
Incident Date 2019-07-27	Date of Last Contact 2019-12-06		
Diagnosis IDCA NG2 1.2CM MALIGNANT NEOPLASM OF THYROID GLAND			
Primary Site / Topography	Tumor/Path Code	Laterality	History Number

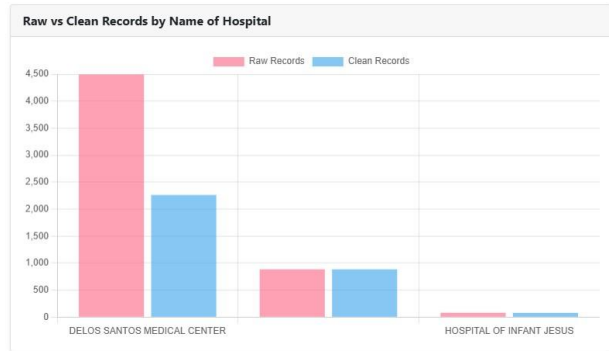
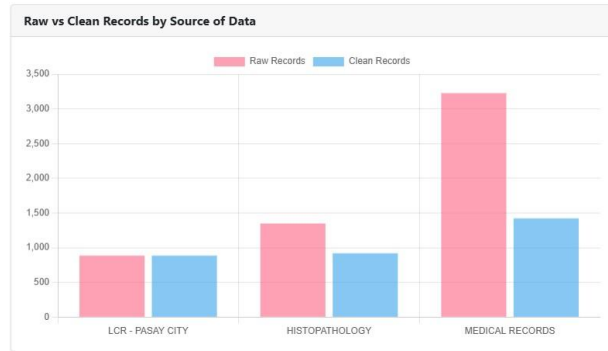
REPORTS & DASHBOARDS

- Generate analytics by hospital, year, cancer type
- Dashboards for trends and completeness
- Reports can be Exported to .xlsx and .csv format

Cancer Registry Data Collection Analytics

Start Year End Year [Apply Filter](#) [Reset](#) [Export All Records to Excel](#)

Total Raw Records 5462	Total Clean Records 3229	Total Hospitals 3	Total Source of Data 3
----------------------------------	------------------------------------	-----------------------------	----------------------------------



Raw Data by Source of Data

Year	Source	Total
2022	LCR - PASAY CITY	2
2024	HISTOPATHOLOGY	1349
2024	MEDICAL RECORDS	1929
2025	LCR - PASAY CITY	884
2025	MEDICAL RECORDS	1298

Clean Data by Source of

Year	Source	Total
2022	LCR - PASAY CITY	2
2024	HISTOPATHOLOGY	832
2024	MEDICAL RECORDS	762
2025	LCR - PASAY CITY	884
2025	MEDICAL RECORDS	661
2025	HISTOPATHOLOGY	88

Raw Data by Name of Hospital

Year	Hospital	Total
2022		2
2024	DELOS SANTOS MEDICAL CENTER	3278
2025	HOSPITAL OF INFANT JESUS	81
2025	DELOS SANTOS MEDICAL CENTER	1217

Clean Data by Hospital

Year	Hospital	Total
2022		2
2024	DELOS SANTOS MEDICAL CENTER	1594
2025	HOSPITAL OF INFANT JESUS	80
2025	DELOS SANTOS MEDICAL CENTER	669

Select Year for Hospital Data Collection

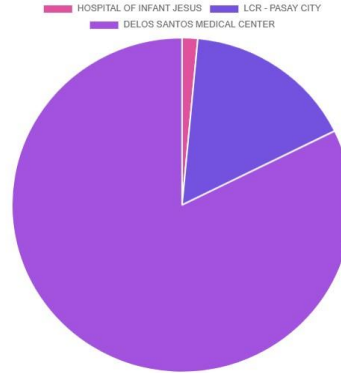
2025

Hospital Raw Data Collection		
Hospital	Year	Total Collected

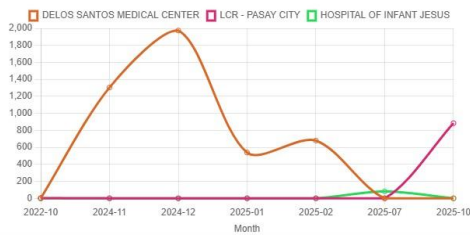
Employee Collections by Hospital



Hospital Patient Data Collections



Hospital Trend (Monthly)



Employee Patient Raw Data Collection Dashboard

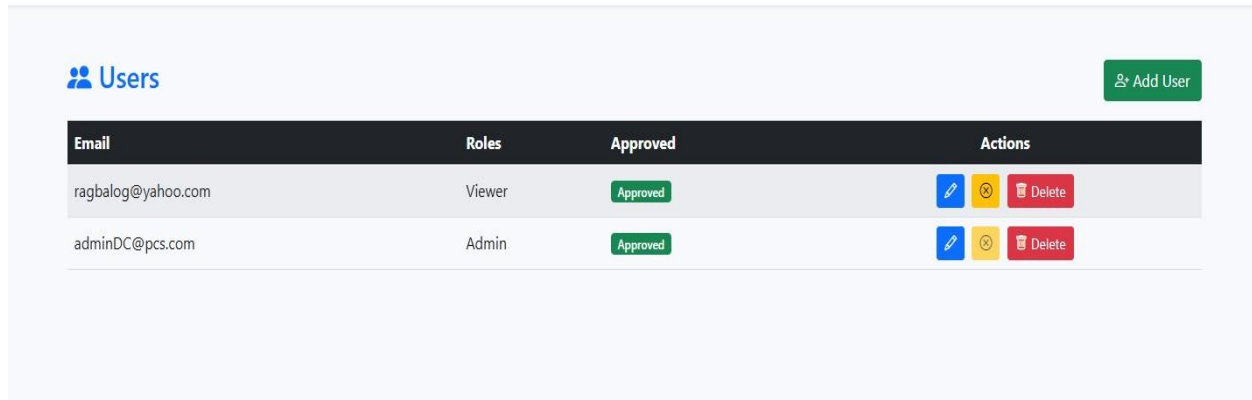
Select Year for Employee Patient Data Collection

2025

Employee Monthly Patient Data Collection					
Employee	Hospital	Year	Month	Total Records	
AGCAOILI, SAIRA	HOSPITAL OF INFANT JESUS	2025	7	36	
ARANAS, LOREANNE	LCR - PASAY CITY	2025	10	80	
CALAYO, RUBELYN	LCR - PASAY CITY	2025	10	185	
CERVANIA, EMELYN	HOSPITAL OF INFANT JESUS	2025	7	45	
CERVANIA, EMELYN	LCR - PASAY CITY	2025	10	55	
DE GUZMAN, RUBY ANN	LCR - PASAY CITY	2025	10	88	
DEANG, RHEA	LCR - PASAY CITY	2025	10	134	
GUTIERREZ, ANNA LOURDES	LCR - PASAY CITY	2025	10	169	
ISLA, JOSEPHINE	DELOS SANTOS MEDICAL CENTER	2025	1	326	
ISLA, JOSEPHINE	DELOS SANTOS MEDICAL CENTER	2025	2	319	
MASULA, MARK	LCR - PASAY CITY	2025	10	61	
OLIVERIA, RAYMOND	DELOS SANTOS MEDICAL CENTER	2025	1	212	
OLIVERIA, RAYMOND	DELOS SANTOS MEDICAL CENTER	2025	2	360	
SANTOS, CAMILLE	LCR - PASAY CITY	2025	10	55	
TENTATIVA, MARICAR	LCR - PASAY CITY	2025	10	57	
CERVANIA, EMELYN	DELOS SANTOS MEDICAL CENTER	2024	11	277	
CERVANIA, EMELYN	DELOS SANTOS MEDICAL CENTER	2024	12	432	
DEANG, RHEA	DELOS SANTOS MEDICAL CENTER	2024	11	356	

USER MAINTENANCE

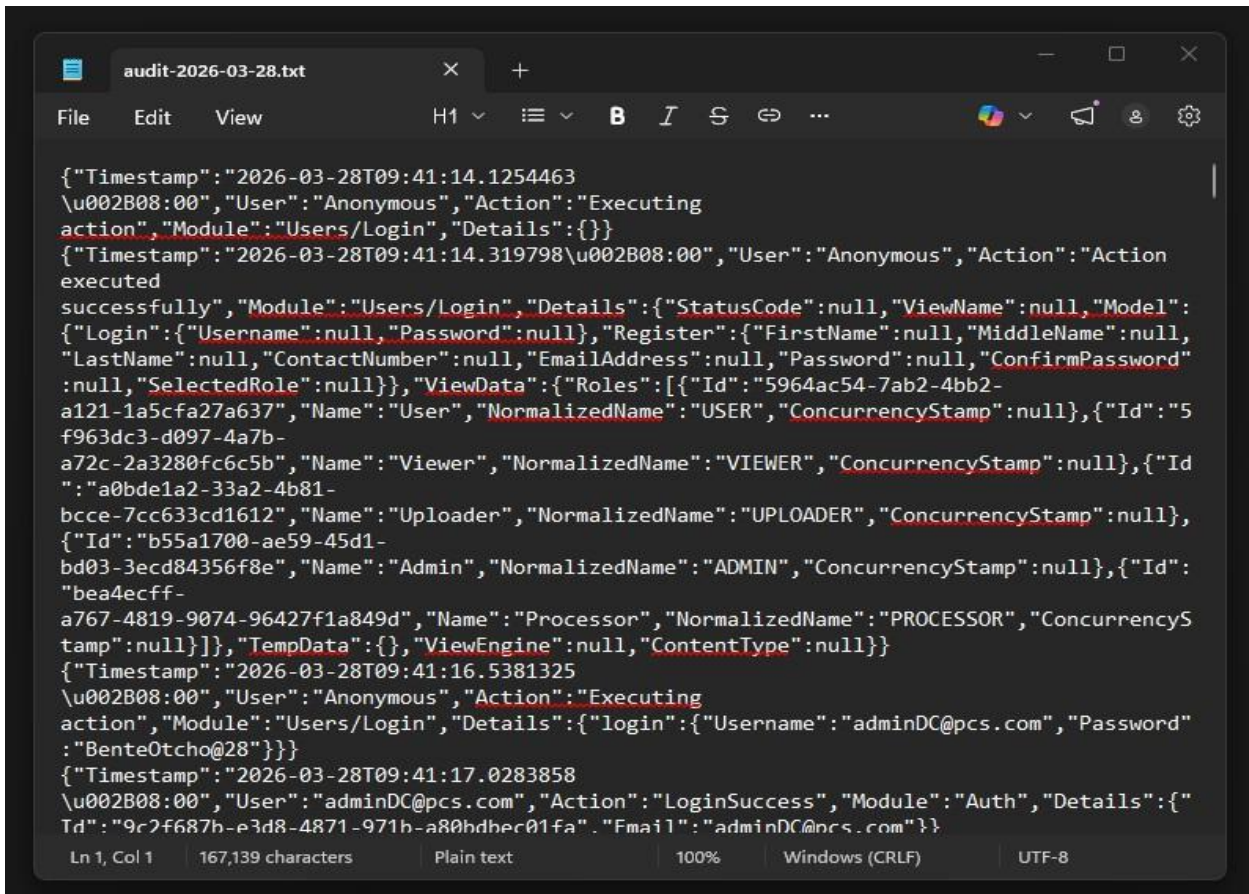
- Admin can add/edit/deactivate users
- Assign roles and permissions



The screenshot shows a user management interface. At the top left, there is a 'Users' header with a person icon. At the top right, there is a green 'Add User' button. Below the header is a table with the following columns: Email, Roles, Approved, and Actions. The table contains two rows of user data.

Email	Roles	Approved	Actions
ragbalog@yahoo.com	Viewer	Approved	Edit Deactivate Delete
adminDC@pcs.com	Admin	Approved	Edit Deactivate Delete

Sample Audit Logs



The screenshot shows a text editor window titled 'audit-2026-03-28.txt'. The editor displays several lines of JSON audit log entries. The first entry shows an 'Executing action' for 'Users/Login' by an anonymous user. The second entry shows an 'Action executed successfully' for 'Users/Login' by an anonymous user, with details including roles and user information. The third entry shows an 'Executing action' for 'Users/Login' by 'adminDC@pcs.com' with password 'Bente0tcho@28'. The fourth entry shows a 'LoginSuccess' for 'adminDC@pcs.com' by 'Auth'.

```
{
  "Timestamp": "2026-03-28T09:41:14.1254463
  \u002B08:00", "User": "Anonymous", "Action": "Executing
  action", "Module": "Users/Login", "Details": {}
}
{
  "Timestamp": "2026-03-28T09:41:14.319798\u002B08:00", "User": "Anonymous", "Action": "Action
  executed
  successfully", "Module": "Users/Login", "Details": {
    "StatusCode": null, "ViewName": null, "Model":
    {
      "Login": {
        "Username": null, "Password": null,
        "Register": {
          "FirstName": null, "MiddleName": null,
          "LastName": null, "ContactNumber": null,
          "EmailAddress": null, "Password": null,
          "ConfirmPassword": null,
          "SelectedRole": null
        },
        "ViewData": {
          "Roles": [
            {
              "Id": "5964ac54-7ab2-4bb2-
              a121-1a5cfa27a637", "Name": "User",
              "NormalizedName": "USER",
              "ConcurrencyStamp": null
            },
            {
              "Id": "5
              f963dc3-d097-4a7b-
              a72c-2a3280fc6c5b", "Name": "Viewer",
              "NormalizedName": "VIEWER",
              "ConcurrencyStamp": null
            },
            {
              "Id":
              "a0bde1a2-33a2-4b81-
              bcce-7cc633cd1612", "Name": "Uploader",
              "NormalizedName": "UPLOADER",
              "ConcurrencyStamp": null
            },
            {
              "Id":
              "b55a1700-ae59-45d1-
              bd03-3ecd84356f8e", "Name": "Admin",
              "NormalizedName": "ADMIN",
              "ConcurrencyStamp": null
            },
            {
              "Id":
              "bea4ecff-
              a767-4819-9074-96427f1a849d", "Name": "Processor",
              "NormalizedName": "PROCESSOR",
              "ConcurrencyS
              tamp": null
            }
          ]
        },
        "TempData": {}, "ViewEngine": null,
        "ContentType": null
      }
    }
  }
}
{
  "Timestamp": "2026-03-28T09:41:16.5381325
  \u002B08:00", "User": "Anonymous", "Action": "Executing
  action", "Module": "Users/Login", "Details": {
    "login": {
      "Username": "adminDC@pcs.com", "Password"
      : "Bente0tcho@28"
    }
  }
}
{
  "Timestamp": "2026-03-28T09:41:17.0283858
  \u002B08:00", "User": "adminDC@pcs.com", "Action": "LoginSuccess",
  "Module": "Auth", "Details": {
    "Id": "9c2f687b-e3d8-4871-971b-a80hdbec01fa",
    "Email": "adminDC@pcs.com"
  }
}
```

5. DATA MODEL & VIEWMODELS

PATIENTVIEWMODEL (C#)

```
public class PatientViewModel
{
    public int PatientId { get; set; }
    public string FullName { get; set; }
    public DateTime? DateOfBirth { get; set; }
    public string Sex { get; set; }
    public string Nationality { get; set; }
    public List<MCRDiagnosisSummaryViewModel> MCRDiagnosisSummaries { get; set; }
}
}
```

MCRDIAGNOSISSUMMARYVIEWMODEL (C#)

```
public class MCRDiagnosisSummaryViewModel
{
    public int Id { get; set; }
    public int PatientId { get; set; }
    public string PrimarySiteTopography { get; set; }
    public string TopographyCode { get; set; }
    public string Laterality { get; set; }
    public string LateralityCode { get; set; }
    public bool IsDeleted { get; set; }
}
}
```

6. BUSINESS RULES & MERGE LOGIC

- Duplicate detection: name, birthdate, hospital ID
 - Retain all unique MCRDiagnosisSummaries
 - Conflicts require Senior Registrar review
-

7. DELETION & VALIDATION LOGIC

- **IsDeleted = true** flags removed entries
 - Validation for required fields, ICD-O compliance, date formats
 - Audit trail logs every edit and deletion
-
-

8. ICD-O CODING GUIDELINES

The **International Classification of Diseases for Oncology, Third Edition (ICD-O-3)** is the standard coding system used in cancer registries to classify tumors by **topography** (site), **morphology** (histology), and **behavior**. Accurate coding ensures data consistency, comparability, and compliance with international reporting standards.

8.1 Components of ICD-O

ICD-O coding involves **three key components**:

1. Topography (Site) Code

- **Format:** CXX.X (e.g., C50.9 for breast, unspecified site)
- **Description:** Identifies the **primary site** of the tumor.
- **Source:** Pathology reports, imaging studies, surgical notes.
- **Rule:** Always code the **primary tumor site**, not metastases, unless the primary is unknown.

2. Morphology (Histology) Code

- **Format:** XXXX/Y (e.g., 8500/3 for invasive ductal carcinoma)
 - **XXXX:** Histologic type
 - **/Y:** Behavior code
 - /0 = Benign
 - /1 = Uncertain or borderline malignancy
 - /2 = In situ
 - /3 = Malignant, primary site
 - /6 = Malignant, metastatic
 - /9 = Malignant, uncertain if primary or metastatic
- **Description:** Describes the **histologic type** of the tumor.
- **Source:** Pathology or cytology report.
- **Rule:** When multiple histologic types exist, code the **most specific or predominant type**.

3. Behavior Code

- Already included in the morphology code (e.g., /3 in 8500/3).
- Determines whether the tumor is **benign, in situ, or malignant**.

4. Grade / Differentiation (Optional)

- Codes: 1–4 or terms like “well-differentiated”
 - Helps assess tumor aggressiveness.
-

8.2 Coding Principles

1. Primary Site First

- Always code the **organ or site where the tumor originated**.
- Example: Liver metastasis from colon cancer → code **colon (C18.9)**, not liver (C22.9).

2. Use the Most Specific Code Available

- Example: “Invasive ductal carcinoma of the left breast” → **C50.2** and **8500/3**.

3. Behavior Code Selection

- Use the **pathologist’s behavior determination**.
- If uncertain, follow registry rules for /1, /2, or /3.

4. Multiple Primaries

- Assign a separate ICD-O code for each **distinct primary tumor**.
- **Do not code multiple tumors in the same organ** unless they are **histologically distinct**.

5. Metastatic Tumors

- **Primary unknown:** use morphology with /9
- **Known primary:** use /6

6. Ambiguous or Incomplete Reports

- Use **“NOS” (Not Otherwise Specified)** codes when site or morphology is unclear.
- Follow local registry rules to resolve uncertainty.

8.3 ICD-O Coding Workflow in PCSMCRIS

1. **Review pathology report** → extract site, histology, and behavior.
2. **Check existing ICD-O tables** in the system.
3. **Select topography code** (CXX.X).
4. **Select morphology code** (XXXX/Y).
5. **Verify behavior** against pathology report.
6. **Save** → system auto-validates against business rules.

8.4 Common Examples

Tumor Description	Topography (CXX.X)	Morphology (XXXX/Y)	Behavior
Invasive ductal carcinoma, breast	C50.9	8500/3	Malignant
Ductal carcinoma in situ, breast	C50.9	8500/2	In situ
Hepatocellular carcinoma	C22.0	8170/3	Malignant
Basal cell carcinoma, skin	C44.9	8090/3	Malignant

8.5 References

- **ICD-O-3 Manual**, WHO, 2013
 - **SEER Coding Guidelines**, NCI
 - **Philippine Cancer Society Manila Cancer Registry Standard Operating Procedures**
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9. APPENDIX

- Sample Excel template

Excel Template for Data Collection:

DateCollected
ReportedBy
NameOfHospital
SourceOfData
SourceSeniorRegistrar
HospitalCaseNo
DateAdmittedInitialDate
DateDischargedLatestDate
LastName
FirstName
MiddleName
CivilStatus
Nationality
Sex
DateOfBirth
Age
AddressUsualResidence
MunicipalityBrgyCode
PlaceOfBirth
Birthplace
Diagnosis
PrimarySiteTopographySeniorRegistrar
LateralitySeniorRegistrar
HistopathNumber
DateSpecimenReceivedHistopathInitialDate
SpecimenIffromHistopathology
HistopathologyResult
StageGrade
TNM
SiteOfDistantMetastasis
HistologicalTypeMorphologySeniorReg
BasisOfDiagnosisSeniorReg
ExtentOfDiseaseSeniorReg
SiteOfDistantMetastasisSeniorReg
Operation
SurgeryDateInitialDate
Radiotherapy
RTFirstDateInitialDate
RTLasteDateInitialDate
Chemotherapy
ChemoFirstDate
ChemoLastDate
Immunotherapy
ImmunoFirstDate
ImmunoLastDate

HormoneTherapy
HormoneTherapyFirstDate
HormoneLastDate
EarliestTreatmentDate
InitialTreatment
PETScanDate
PETScanResult
CTScanDateInitialDate
CTScanResult
DateOfDeath
UsualResidenceInDeathCert
PlaceOfDeath
NameOfHospitalInDeathCert
HospitalAddressInDeathCert
ImmediateCauseOfDeathFromDC
ICODCode
AntecedentCauseOfDeathFromDC
ACODCode
UnderlyingCauseofDeathFromDC
UCODCode
OtherSignificantConditionContributingToDeathFromDC
OtherSignificantConditionFromDC Code
MedicalAttendance
CertifiedCorrectBy
NameOfDoctorDeathCert
HospitalClinicOfDoctorOnDeathCert
ContactNumber
UsualOccupation
Autopsy
DiagnosisAutopsyFromDC
IncidentDate
DateOfLastContact

FINAL NOTE

The Philippine Cancer Society Manila Cancer Registry Information System (PCSMCRIS) is a vital tool in the accurate collection, management, and analysis of cancer data. This manual has outlined the workflows, coding standards, and operational guidelines necessary to ensure data integrity and reliability. By following these procedures, users contribute directly to high-quality cancer surveillance, research, and patient care. Consistent adherence to the standards set forth here will maximize the system’s impact and support the broader mission of improving cancer outcomes. Users are encouraged to revisit this manual regularly, integrate updates as they are issued, and approach each record with diligence and accuracy. Your role in maintaining the registry’s quality is critical—every entry counts.