





NCIS Guide Merge Functionality

Contents

Background
Merge Scenarios
Scenario 1: PAS Merge Only2
Scenario 2: PAS with NCIS Case2
Scenario 3: NCIS Clipboard Merge2
Worklist Entries
Merge Process Overview (Step by Step)
Scenario 1: PAS Merge (with or without NCIS Case)
Scenario 2: PAS Merge with NCIS Case(s)4
Scenario 2.1:4
Scenario 2.2:4
Scenario 2.3:4
Scenario 3: NCIS Merge5
Process for an NCIS Chart Merge6
Process for an NCIS MED Merge13
Appendix
Patient Record Merge Checklist for NCIS and PAS15

Background

In the administration of patient information, duplicate healthcare records can occur. Where a duplicate record for a patient is identified, a merge process is required to consolidate the patient's information into a single record. This process can be required for paper records (the patient chart), PAS records and where relevant, for the patient record held within NCIS.

For a patient with a duplicate record in NCIS, the user carrying out the merge will need to review the NCIS case(s) and identify the appropriate merge scenario. This guide explains the different merge scenarios and step-by-step instructions to manage and/or perform merges in NCIS.

Merge Scenarios

Merging patient records must be done carefully and systematically. Once merged in NCIS, the process cannot be undone. Records must be assigned as:

- Major Record: The surviving record after the merge
- Minor Record: The record that will be removed

Before merging in NCIS, ensure all necessary merges in PAS are complete.

The steps required for each merge generally fall into one of the following scenarios:



Scenario 1: PAS Merge Only

Patient Merge in PAS without NCIS Record. Records are merged within PAS and an update is sent to the NCIS Master Patient Index (MPI).

Scenario 2: PAS with NCIS Case

Patient Merge in PAS with NCIS Record:

- Scenario 2.1: Major PAS ID linked to case in NCIS
- Scenario 2.2: Minor PAS ID linked to case in NCIS
- Scenario 2.3: Both the Major and Minor Records are associated with cases in NCIS. Where PAS records have been delivered to the MPI and NCIS cases have been created using one or more of these PAS IDs.

Scenario 3: NCIS Clipboard Merge

Single PAS record, multiple NCIS cases - Patient Merge Process in NCIS. Where multiple NCIS cases have been created using a single PAS record, or where the PAS record has been merged and now the NCIS cases require a subsequent merge process.

Some relevant considerations for merging NCIS cases:

- Do the cases both have the same diagnosis recorded? If no, this may need to be clarified with the clinical team.
- Are the cases to be merged, linked to the MPI? If no, the case may also require HIS matching.
- Are the cases to be merged at the same hospital in NCIS.Chart? If no, you may need to seek assistance from a local administrator at the other hospital and/or the NCIS office to complete the merge.

Worklist Entries

Merge messages from PAS to NCIS can result in an automatic worklist notification, this will appear in the worklist menu and in the patient record screen in the banner.

My Workspace Work lists Follow-up care Calendar							
Patient merge notification ~							
Patient search Results per page 20							
from	ID	Name	Subject	Client	Work list		
21.04.2023	12655000010	Merge Major	Patient: MERGE, MAJOR (01.01.1970)	St Luke's Dublin	Patient merge notification	a 🖉	

Figure 1: Worklist merge notification (in Worklist menu)

There are entries in the work lists for this case!	completed
21.04.2023, Patient merge notification: Patient: MERGE, MAJOR (01.01.1970) NOTE: FROM SLH PAS (received 28.08.2019 12:55), Merge notification OLD-ID: .241664 NEW-ID: 192119	

Figure 2: Worklist merge notification (in patient's tumour case banner)

Merge Process Overview (Step by Step)

Scenario 1: PAS Merge (with or without NCIS Case)

Two or more records exist in PAS for the same person. Each PAS record will have a different PAS Identifier.

Step 1: A search in NCIS will display what records are in the MPI based on their PAS Identifier (MRN/Local ID). Before a PAS merge takes place, you will see both records in the MPI search in NCIS.

	NCIS ID Hospital ID	Name	Date of birth gender	Address	Hospital
PAS Record #1	212080	Mr Scenario1, NCISMergeMajor1	01.01.1970(m)	26 Merge Street Merge City Dublin XJY123	MPI
PAS Record #2	212081	Mr Scenario1, NCISMergeMinor1	01.01.1970(m)	26 Merge Street Merge City Dublin	MPI

Figure 3: MPI Search Return

Step 2: Determine which record in PAS will become the Major (surviving) Record and which will be the Minor (non-surviving) Record.

Step 3: Perform a PAS merge (Following the merge of the Major and Minor PAS records, a Merge message will be delivered to the NCIS Master Patient Index (MPI) from PAS).

Step 4: Once this has occurred, an MPI search will result in only the Major record being shown. The Minor record will no longer be seen in the MPI search result in NCIS.

Scenario 2: PAS Merge with NCIS Case(s)

Two or more records exist in PAS for the same individual person. At least one of the PAS records was used to register a case in NCIS.

A search in NCIS will display what records are in the MPI based on their PAS Identifier (MRN). Check which record to be merged is associated with an NCIS case. You will need to plan your NCIS merge depending on the relationship between the case in NCIS and the PAS identifier. The record that has an NCIS case will display both a PAS identifier and an NCIS ID.

Scenario 2.1: Merge where the Major PAS Identifier is associated with the NCIS Case Two or more PAS records, and a single NCIS record

Step 1: Establish that the Major (surviving) Record is associated with the NCIS case.
Step 2: Perform a PAS merge (Following the merge of the Major and Minor PAS records, a Merge message will be delivered to the NCIS Master Patient Index (MPI) from PAS).
Step 3: Once this has occurred, an MPI search will result in only the Major record being shown.
Step 4: No further action is required in NCIS.

Scenario 2.2: Merge where the Minor PAS Identifier is associated with the NCIS Case

Step 1: Two or more PAS records, and a single NCIS record

Step 2: The Minor (non-surviving) record is associated with a case in NCIS.Step 3: Perform a PAS merge (Following the merge of the Major and Minor PAS records, a

Merge message will be delivered to the NCIS Master Patient Index (MPI) from PAS).

Step 4: Once this has occurred, it will result in an update to NCIS.Chart, the MPI and NCIS.MED. **Step 5:** The Minor PAS identifier will be deactivated.

In some situations, a HIS match is also required to be completed if demographic fields in NCIS need to be updated.

Scenario 2.3: Merge where both the Major and Minor PAS Identifiers are associated with a Case

Step 1: Two or more PAS records, each with an associated NCIS record **Step 2:** Identify the Major PAS identifier and the Major NCIS Case and plan your required merge steps accordingly.

Step 3: Perform a PAS merge (Following the merge of the Major and Minor PAS records, a Merge message will be delivered to the NCIS Master Patient Index (MPI) from PAS). **Step 4:** Once this has occurred, it will result in an update to NCIS.Chart, the MPI and NCIS.MED.

Step 5: The Minor PAS identifier will be deactivated and the associated case will become unlinked.

Follow the process for an NCIS merge (see Scenario 3) to align the NCIS records to the Major (surviving) patient identifier.

Scenario 3: NCIS Merge

Two or more records exist in NCIS for the same individual person.

Scenario 3.1: Merge where both cases have the same diagnosis recorded Before completing the merge steps, it is important to review both NCIS Chart and NCIS Med and work through the anticipated merged record contents.

Following the merge of the Major and Minor PAS records, a merge message will be delivered to the NCIS Master Patient Index (MPI) from PAS. This will update the MPI and the Local ID/MRN will become unlinked (for case with minor ID) or a worklist entry will appear (for case with major ID). It is important to refer to NCIS MED and to establish which NCIS ID appears for the patient there, this should be used as the Major NCIS ID in the NCIS merge process.

Process for an NCIS Chart Merge

Where there are two or more cases for the same patient in NCIS, the clipboard can be used to merge the cases together in NCIS Chart. The Clipboard is visible to Local Administrator users. Please note: the clipboard should only be used from the patient's tumour case screen.

Step 1	Identify the major case and the minor record(s)	Include a review of forms	s in each case and th	nerapy plans in NCIS MED to iden	ify what should be seen in the m	erged record.	
	to be merged.	N	ICIS ID Iospital ID	Name	Date of birth gender	Address	Hospital
		MAJOR RECORD 1	2655000010 92119 (SLH)	Merge, Major	01.10.1960 (m)	Minor Hill Major Road Minor Town Major City	St Luke's Dublin
		MINOR RECORD 1	2655000202	Merge, Minor	01.10.1960 (m)	Minor Hill Major Road Minor Town Major City Dublin	St Luke's Dublin
Step 2	Open the Major case.						
Step 3	In the tumour case form click edit	General info Dia	agnostics Confe	rence Assessment Therap	y Communication Follow-ι	p Clinics	
		Personal info Tum	our case Clinica	history	Facility:		~
							Edit
		Basic data					
		Referring physician	Mr. Jack Surg	eon			
		Primary consultant	Dr. Barry Brig	ht	Oncology		
		Family doctor/Special	list Aine Murphy		Quays Medica	I Practice	
		Comorbidities			60 ch	ars remaining	

Step 4	Find the clipboard	General info Diagn	ostics Conference Assessment Thera	py Communicati	on Follow-up Clinics		
	button at the bottom of the screen (this is only	Personal info Tumou	case Clinical history	Facility:		~	
	available to users with administrator access)						
		Basic data					
		Referring physician	Mr. Jack Surgeon	i *			
		Primary consultant	Dr. Barry Bright Add additional consultant	<u>i</u> <u>*</u>	Oncology		
		Family doctor/Specialist	Aine Murphy	i *	Quays Medical Practice		
		Comorbidities			60 chars remaining +		
		1 primary diagnosi					
		Date of initial diagnosis	17.11.2022				
		Primary diagnosis	C45.9 Mesothelioma, unspecifie	ed			
			Suspicion of Free text [+ / -]				
						1.	
		Basic product set					
		v i Sav	e Print Back Save and add to worklist	Delete case Transfe	er to other client		
Step 5	Open the clipboard	There is currently no entry in	the clipboard.			X	
		,					
					Save t	o clipboard	

Sten 6	Add the case to the			X	
Step 0	cliphoard by clicking on	There is currently no	entry in the clipboard.		
	the "save to clipboard"				
	the save to cipboard				
	button.				
				Save to clipboard	
a: -					
Step /	Open the minor case				
Step 8	Follow steps 4 to 6 again	Clipboard		X	
	to add the minor case to		St Luke's Dublin		
	to add the minor case to	Client:			
	the clipboard	Client: Patient: Description:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 /	(IS ID)	
	the clipboard	Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case	(IS ID)	
	the clipboard	Client: Patient: Description: delete: Client:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case	(IS ID)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case		
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	ais id)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	ats id)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	ars id)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID) 	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID) 	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID) 	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID) (IS ID)	
	the clipboard	Client: Patient: Description: delete: Client: Patient: Description: delete:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / Tumour case St Luke's Dublin Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / Tumour case	(IS ID) (IS ID)	

Optional step	You can use the title field in NCIS Chart to add information to assist in identifying cases in the clipboard view. The	c37.CancerCenter Patient *Title Field Entry* Merge St Luke's Dublin D.O.B. 01.10.1960 (64) NCIS ID 12655000010 Hospital ID 192119 (SLH)
	cleared after the merge.	Personal info Tumour case Clinical history Facility:
		Edit
		be applied)
		Title 'Ittle Held Entry" Minor Hill Prefix Postal address Postal address Minor Town Minor Town Minor Town Minor Town
		First name Major Eircode Surname at birth County Dublin North City & County
		Client: St Luke's Dubin Patient: Merge, Minor born on 01.10.1960(NCIS ID 12655000202 / KIS ID) Description: Tumour case delete:
		Client: St Luke's Dublin Patient: Title Field Entry* Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / KIS ID) Description: Tumour case delete:
		merge cases Move as Another Tumour Move as tumor case

Stop 0	Tick the check hoves on			V	
Step 9	Tick the check boxes off	Clipboard		<u>^</u>	
	the cases that you wish	Client:	St Luke's Dublin		
	to merge	Patient:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / KIS ID)	_	
		Description:	Tumour case	U	
	The merge button is	delete:	Chiudea Dublia		
	disabled until both cases	Patient:	*Title Field Entry* Merge Major born on 01 10 1960 (NCIS ID 12655000010 / KIS ID)		
	that need to be merged	Description:	Tumour case		
	are calested	delete:			
	ure selecteu.				
			merge cases Move as Another Tumour Mo	ve as tumor case	
61		-			
Step 10	Click merge cases	Clipboard		X	
		Client:	St Luke's Dublin		
		Patient:	Merge, Minor born on 01.10.1960 (NCIS ID 12655000202 / KIS ID)	-	
		Description:	Tumour case	~	
		delete:	Chiudada Dublia		
		Patient:	*Title Field Entry* Merge, Major born on 01.10.1960 (NCIS ID 12655000010 / KIS ID)		
		Description:	Tumour case		
		delete:			
			merge cases Move as Another Tumour Mo	ve as tumor case	

Sten 11	Select the major case	Y
5100 11	and start the morge*	
	and start the merge .	Select major patient
		atient: Merge Minor hor 1960 (NCIS ID 12655000202 / KIS ID)
		Andre Steland State Stat
		Automa in a final final series of the series
		Back to the clipboard Start the merge
		Western Outl
	*Before you click on	
	Merge ensure that you	
	are merging the correct	Do you really want to merge the two patients?
	cases. The following	
	message will appear.	Please note that the case in red will be deleted !
	A Warning message	
	appears to confirm the	
	appears to commit the	
	merge is to proceed	NO YES
Step 12		he cases will begin to merge and will be locked for editing by other users
Step 13	A Conflict warning will	note X
	appear to list the	
	differences between the	
	patient demographics	During the merge, 12655000010 conflicts have arisen in the case
	and tumour cases	file.
	content will appear.	
	······································	
	This list is relevant to	
	fields in the typeur case	Close
	thet are each a site !	Close
	that are only available	
	once, where multiple	
	forms are used (e.g. the	
	conference form or the	

National Can NCIS Guide Merge Funct	icer Control Programme	Document/Ve	rsion no: NCISTRAIN46/2 Date: 23/06/2025 ?eview Date: 23/06/2028
	therapy form) multiple	There is a difference in field Primary Examiner in form Tumour case	
	the merged case and no	There is a difference in field center physician in charge ID in form Tumour case	
	conflict will be noted.	 Here is a difference in field kererring physician in form (umour case) There is a difference in field in form Tumour case There is a difference in field Honorific in form Personal info 	
	Check that all		completed
	differences have been		Edit
	validated. The user can		
	open each warning to		
	review the information,		
	tick the items that have		
	been reviewed. Each		
	item should be crossed		
	out, note that changes		
	cannot be made to the		

> After the merge in NCIS.Chart is completed, search for the patient and ensure there is only one linked entry.

If the patient has more than 2 entries to begin with you will need to repeat the process as only 2 records can be merged at a time.

Note: a user should not click close or leave the case view until the merge is complete. This will interrupt the merge.

> Check NCIS Med to ensure there are no duplicates in this section

Complete the merge by clicking on completed

minor case but the major case can be modified where a change is required.

Step 14 Step 15

Checks:

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Process for an NCIS MED Merge

In reviewing the NCIS record before a Merge, the user should establish and take note of the record(s) for the patient in NCIS Med, in particular it is important to note which NCIS ID is seen in NCIS MED.

Generally, the NCIS MED merge will take place automatically. If the two NCIS IDs are being merged and each one has a NCIS MED record, the merge in NCIS.Chart should automatically follow through to NCIS.Med. However, if it should ever be required, it is possible to complete a merge in NCIS.Med. This functionality is available to Local Administrator users. **Please note: the merge option in NCIS.MED should only be used when the user is <u>not</u> in patient context.**

Step 1:	Identify the major case and the minor record(s) to be merged.	
Step 2:	Open the Minor case in NCIS.MED.	Mr. Merge Minor d.o.b. 12 May 1960 62.7 Years - Pat. no: 192118 - SLH Ward Patient data Medical results Diagnoses Cumul. doses Sorting: Name Soc. Sec. # Pat. no. Sorting: Made Made Title: Barcode: 192118 Iast name: Merge Minor Pat. no.: Maiden name: Local patient ID: 192118 Ins. no.:
Step 3:	In the patient data tab click "merge patient data" This cannot be done in patient context	D.o.b: 12/05/1960 Deceased on: Patient data Medical results Diagnoses Cumul. doses Merge patient data Open patient folder Barcode: 192118

Step 4:	The merge selection box appears. This provides the option to search for the <u>Major</u> patient with which you wish this record.	Merge patient data	x	
		Merge patient data		
		Select a patient record with which the data of patient Merge Minor, d.o.b. 12/05/1960 (Pat. no.: 192118) should be merged.		
			Ŷ	
			OK Cancel	
			di.	
Step 5:	Select the major patient and click ok.	Composition Merge patient data	×	
		Merge patient data		
		Select a patient record with which the data of patient Merge Minor, d.o.b. 1 merged.	2/05/1960 (Pat. no.: 192118) should be	
		Merge Major, d.o.b. 01/10/1960 (Pat. no.: 192119)	4p	
			OK Casicel	
Step 6:	Merge complete, check			

Appendix

Patient Record Merge Checklist for NCIS and PAS

Before Starting:

- Confirm duplicate patient records exist
- Determine if duplicates are in PAS, NCIS, or both
- Complete any necessary merges in PAS first

Scenario 1: PAS Merge Only

- Identify Major (surviving) and Minor (non-surviving) PAS records
- Perform PAS merge
- Confirm merge message sent to NCIS MPI
- Verify only Major record appears in NCIS MPI search

Scenario 2: PAS Merge with NCIS Case(s)

2.1 Major PAS linked to NCIS case

- Perform PAS merge
- Confirm NCIS MPI updates
- No further NCIS action needed

2.2 Minor PAS linked to NCIS case

- Perform PAS merge
- Complete HIS Match if required
- Confirm PAS identifier update to MPI, NCIS.Chart, and NCIS.MED

2.3 Both Major and Minor PAS linked to NCIS cases

- Perform PAS merge
- Perform NCIS merge (Scenario 3)
- Complete HIS Match if required
- Confirm update to MPI, NCIS.Chart and NCIS.MED

Scenario 3: NCIS Merge Only

- Review cases for same diagnosis and hospital
- Use NCIS Chart Clipboard to add Major and Minor cases
- Select cases and merge, confirming Major case as survivor
- Review conflict warnings and resolve demographic or case differences
- Complete merge and confirm only one linked entry
- Repeat for additional duplicates if necessary
- Verify NCIS Med for duplicates and perform Med merge if needed

Troubleshooting

- Check PAS for unmerged or duplicate entries
- Verify patient identity details (DOB, name, address)
- Use HIS Match to resolve demographic mismatches

Problem 1:	Problem 2:			
Patient has two or more records on NCIS.	Patient has two or more records on NCIS			
Record One has a Local ID and an NCIS ID	Both records have the same local ID.			
Additional Record(s) has NCIS ID only.				
More than one record for the patient on PAS, Demographic information changed after an entry has been created on NCIS – This causes an unlinking and an additional record for the patient with an NCIS ID but no Local ID.	Patient has had a new case created instead of an existing case opened. This can sometimes occur if the user double clicks at the point of creating the first case.			
(If the patient has only one entry on PAS it is likely that there has been a change to the demographic information which created a second MPI entry for the same PAS record. The unlinked records can be resolved on NCIS using HIS Match and then merged to tidy up the additional cases)				
CHECK	CHECK			
- That this is the same patient by checking the date of birth, name and address.	- Demographic Information for any discrepancy.			
- Whether the cases have become unlinked due to demographic change, typos, use of apostrophe other character in address.	 PAS to ensure there is only one patient record. Which record has had information added to 			
 PAS to ensure there are no unmerged entries. If the patient has more than one entry on PAS, this will need to be resolved by a PAS merge <u>before</u> the records can be merged on NCIS. 	determine the major case.			

Step	Scenario 1	Scenario 2.1	Scenario 2.2	Scenario 2.3	Scenario 3
Records in PAS only	Yes	No	No	No	No
Records in NCIS	No	Major linked	Minor linked	Both linked	Multiple NCIS cases, one PAS record
PAS Merge Required	Yes	Yes	Yes	Yes	No
NCIS Merge Required	No	No	(HIS Match)	Yes	Yes
Merge Process	PAS merge	PAS merge	PAS merge + HIS Match	PAS merge + NCIS merge	NCIS Chart Clipboard
Minor PAS identifier	Deactivated	Deactivated	Deactivated	Deactivated	N/A
MPI Update	Automatic	Automatic	Automatic	Automatic	Automatic

Table 1: Quick Reference: NCIS and PAS Patient Merge



Figure 1: Merge Types