# Codes Associated with Errors

This document contains the codes associated with the data collection process.

## Initial Verification

Table Initial Verification (the patient imaging data summary).

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| **Code** | **Description** |
| I\_EXEC\_001:EXECLUDE | I: Initial Verification: Patient details not found in the directory. |
| I\_EXEC\_002:EXECLUDE | I: Initial Verification: ERROR in collected the dataset. |
| I\_EXEC\_003:EXECLUDE | I: Initial Verification: IMAGING DATA NOT FOUND. |
| I\_EXEC\_004:EXECLUDE | I: Initial Verification: contained phantom study only (Patient cannot be included in the study). |
| I\_EXEC\_005:EXECLUDE | I: Initial Verification: {modality} missing (Patient cannot be included in the study):{modality} |
| I\_EXEC\_006:EXECLUDE | I: Initial Verification: The patient had no more available studies after removing studies with ineligible keywords in each study description. |
| I\_SUCC\_001:PROCEED | I: Initial Verification: Patient has one associated study |
| I\_REV\_001:LOW | I: Initial Verification: Patient has {v} multiple associated studies |
| I\_SUCC\_002:PROCEED | I: Initial Verification: Conflict removed. only one study remains |
| I\_EXEC\_007:EXECLUDE | I: Initial Verification: The patient have multiple studies associated, discard. Patient data can be later exported to quarantine for review. |

Table Study Verification codes.

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| **Code** | **Description** |
| II\_EXEC\_001:EXECLUDE | II: Study verification: Patient has no associated CT modality. |
| II\_EXEC\_002:EXECLUDE | II: Study verification: Patient has no associations between modalities |
| II\_SUCC\_001:PROCEED | II: Study verification: Patient has one CT associated with RTSTRUCTS and RTDOSES. |
| II\_EXEC\_003:EXECLUDE | II: Study verification: Patient has multiple associations between modalities, must be reviewed. Discard for now. |

## Retrieval Notes

Table CT retrieval codes.

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| **Code** | **Description** |
| XI\_EXEC\_001: EXECLUDE | XI: CT retrieval: cannot sort retrieved instances. |
| XI\_EXEC\_02: EXECLUDE | XI: CT retrieval: Failed to retrieve the patient's CT. |
| XI\_SUCC\_001:PROCEED | CT retrieved successfully. |

Table CT NIFTI generation codes.

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| **Code** | **Description** |
| XII\_SUCC\_001:PROCEED | XII: CTnifti generation: Successfully added the CT nifti file to its directory |
| XII\_EXEC\_001: EXECLUDE | XII: CTnifti generation: Failed to generate the patient's CTnifti. |

Table RTSTRUCTs retrieval codes.

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| **Code** | **Description** |
| XIII: XIII\_EXEC\_001: EXECLUDE | XIII: RTSTRUCTS retrieval: failed to retrieve an RTSTRUCT |
| XIII: XIII\_SUCC\_001: PROCEED |  |
| XIII: XIII\_EXEC\_001: EXECLUDE | XIII: RTSTRUCTS retrieval: failed to retrieve the RTSTRUCTs |

Table RTSTRUCTs NIFTI masks generation.

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| **Code** | **Description** |
| XIV\_SUCC\_001:PROCEED |  |
| XIV\_EXEC\_001:EXECLUDE | XIV: RTSTRUCTS nifti masks generation: failed to generate the nifti masks for the patients. |

Table RTPLAN retrieval codes.

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| **Code** | **Description** |
| XV\_EXEC\_001: EXECLUDE | XV: RTPLAN retrieval: failed to retrieve an RTPLAN |
| XV\_SUCC\_001: PROCEED |  |
| XV\_EXEC\_002: EXECLUDE | Exception |

Table RTDOSE retrieval codes.

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| **Code** | **Description** |
| XVI\_EXEC\_001: EXECLUDE | XVI: RTDOSE Retrieval: failed to retrieve an RTDOSE |
| XV\_SUCC\_001: PROCEED | XVI: RTDOSE Retrieval: added {x} rtdose instances with dosesummationtype as PLAN to the RTDOSE directory. |
| XVI\_EXEC\_002: EXECLUDE | XVI: RTDOSE Retrieval: Exception |

## Loading notes

Table Loading the CT NIFTI file to a numpy array.

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| **Code** | **Description** |
| XXI\_SUCC\_001: PROCEED | Load was successful |
| XXI\_EXEC\_001:EXECLUDE | XXI: loading CT: EXCEPTION |

Table loading the masks to numpy arrays.

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| **Code** | **Description** |
| XXII\_EXEC\_001:EXECLUDE | XXII: XXII loading masks: No mask folders found in the directory |
| XXII\_REV\_001: NORMAL | XXII: XXII loading masks: no masks were found for the RTSTRUCT. |
| XXII\_REV\_002: NORMAL | XXII: XXII loading masks: failed to load the mask |
| XXII\_REV\_003: NORMAL | XXII: XXII loading masks: multiple masks referring to the same roi names, possibly a duplicate. |

Table Loading the RTDOSES to numpy arrays.

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| **Code** | **Description** |
| XXIV\_EXEC\_001:EXECLUDE | XXIV select RTDOSES: No dosegrids associated with the list |
| XXIV\_EXEC\_002:EXECLUDE | XXIV select RTDOSES: No dosegrids associated with the study. |
| XXIV\_EXEC\_003:EXECLUDE | Maximum dose received by a voxel is not acceptable. |
| XXIV\_SUCC\_001:PROCEED | RTDOSES successfully loaded |