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The following variables encapsulated various outputs from the Standardization process and can be mapped to the outgoing HL7 message.

#### 5.1.5.1.4.1 Standardized Result Attributes – General Variables

Template Variable	Output Format	Description
{StandardizedStudyDescription}	String	The standardized study description
{StandardizedSeriesDescriptions}	String List (comma delimited)	List of all standardized series description (Chosen series description corresponds to an Object with the most number of instances)
{OriginalStudyDescription}	String	The original study description
{OriginalSeriesDescriptions}	String List (comma delimited)	List of all original series descriptions
{StandardizedSeriesCount}	Integer String	Number of standardized series
{StandardizedInstanceCount}	Integer String	Number of standardized instances
{ContrastPresent}	Boolean String	True if present, false otherwise
{StudyModalitiesMapped}	String List (comma delimited)	All imaging modalities present in the study after label mapping
{StudyModalityMapped}	String	Inferred imaging modality for the study (always a single modality even for mixed modality studies) after label mapping

#### 5.1.5.1.4.2 Standardized Result Attributes – Standardized Variables

Template Variable	Output Format	Description
{CdmObjAnatomies}	String List (comma delimited)	Aggregated image object anatomies present in series. Note - aggregation handles multiple objects in a series
{CdmObjAnatomiesMapped}	String List (comma delimited)	Aggregated image object anatomies present in series after label mapping. Note - aggregation handles multiple objects in a series
{CdmObjAnatomiesWithLateralityMapped}	String List (comma delimited)	Aggregated image object anatomies present in series with laterality. Note - aggregation handles multiple objects in a series

{CdmObjImageWeightings}	String List (comma delimited)	MR image weightings aggregated over the series
{CdmObjImageWeightingsMapped}	String List (comma delimited)	MR image weightings aggregated over the series after label mapping
{CdmObjImageWeightingQualifiers}	String List (comma delimited)	MR image weighting qualities aggregated over the series
{CdmObjImageWeightingQualifiersMapped}	String List (comma delimited)	MR image weighting qualities aggregated over the series after label mapping
{CdmObjKernels}	String List (comma delimited)	CT reconstruction kernel
{CdmObjKernelsMapped}	String List (comma delimited)	CT reconstruction kernel after label mapping
{CdmObjModalities}	String List (comma delimited)	Aggregated image object modalities present in series. Note - aggregation handles multiple objects in a series
{CdmObjNumericalSliceDescriptorsMapped}	String List (comma delimited)	CT or MR numerical slice descriptors after label mapping
{CdmObjNumericalSliceThicknessDescriptorsMapped}	String List (comma delimited)	CT or MR numerical slice thickness descriptors after label mapping
{CdmObjSliceDescriptorsMapped}	String List (comma delimited)	CT or MR slice descriptors after label mapping
{CdmObjSliceThicknessDescriptors}	String List (comma delimited)	CT or MR slice thickness descriptors
{CdmObjSliceThicknessDescriptorsMapped}	String List (comma delimited)	CT or MR slice thickness descriptors after label mapping
{CdmObjTypes}	String List (comma delimited)	Aggregated image object types present in series. Note - aggregation handles multiple objects in a series

{CdmObjTypesMapped}	String List (comma delimited)	Aggregated image object types present in series after label mapping. Note - aggregation handles multiple objects in a series
{CdmObjViews}	String List (comma delimited)	Aggregated image object views present in series. Note - aggregation handles multiple objects in a series
{CdmObjViewsMapped}	String List (comma delimited)	Aggregated image object views present in series after label mapping. Note - aggregation handles multiple objects in a series
{CdmStudyAnatomy}	String	Study level anatomy without laterality
{CdmStudyAnatomyAggregated}	String	Aggregation of all image anatomies in the study
{CdmStudyAnatomyMapped}	String	Study level anatomy without laterality after label mapping
{CdmStudyAnatomyWithLateralityMapped}	String	Study level anatomy with laterality after label mapping
{CdmStudyAngiogramFlag}	String	Study level angiogram flag (boolean flag)
{CdmStudyContrastFlag}	String	Study level contrast flag (boolean flag)
{CdmStudyContrastRoute}	String	Study level contrast route
{CdmStudyContrastRouteMapped}	String	Study level contrast route after label mapping
{CdmStudyGroupCount}	String	Number of image object groups inferred in the study
{CdmStudyGroupCountMapped}	String	Number of image object groups inferred in the study after label mapping
{CdmStudyIVContrastDescriptor}	String	Study level IV contrast descriptor
{CdmStudyContrastRouteMapped}	String	Study level contrast route after label mapping
{CdmStudyLaterality}	String	Study level laterality

{CdmStudyModalities}	String	Study level modalities (aggregation of all image modalities in the study)
{CdmStudyModality}	String	Study level modality (inferred modality for the study)
{CdmStudyPhaseCountMapped}	String	Study level phase count after label mapping
{CdmStudyStudyPhaseCount}	String	Study level phase count
{CdmStudyType}	String	Diagnostic/non-diagnostic/unknown
{CdmStudyTypeMapped}	String	Diagnostic/non-diagnostic/unknown after label mapping
{CdmStudyViewCount}	String	Study view count
{CdmStudyViewCountMapped}	String	Study view count after label mapping

### 5.1.5.1.4.3 Standardized Result Attributes – JSON Wrapped

The template variables listed in:

- 5.1.5.1.4.1 Standardized Result Attributes – General Variables
- 5.1.5.1.4.2 Standardized Result Attributes – Standardized Variables

are also available wrapped in a JSON Object (and serialized to a string) for convenience.

Template Variable	Output Format	Description
{ResultsShortJson}	JSON String	<p>A JSON object with the following properties:</p> <ul style="list-style-type: none"> <li>• CdmStudyAnatomy</li> <li>• CdmStudyAnatomyAggregated</li> <li>• CdmStudyAnatomyMapped</li> <li>• CdmStudyAnatomyWithLateralityMapped</li> <li>• CdmStudyAngiogramFlag</li> <li>• CdmStudyContrastFlag</li> <li>• CdmStudyContrastRoute</li> <li>• CdmStudyContrastRouteMapped</li> <li>• CdmStudyGroupCount</li> <li>• CdmStudyGroupCountMapped</li> <li>• CdmStudyIVContrastDescriptor</li> <li>• CdmStudyLaterality</li> <li>• CdmStudyModalities</li> <li>• CdmStudyModality</li> <li>• CdmStudyPhaseCountMapped</li> <li>• CdmStudyStudyPhaseCount</li> </ul>



		<ul style="list-style-type: none"> <li>• CdmStudyType</li> <li>• CdmStudyTypeMapped</li> <li>• CdmStudyViewCount</li> <li>• CdmStudyViewCountMapped</li> <li>• ContrastPresent</li> <li>• OriginalStudyDescription</li> <li>• StandardizedInstanceCount</li> <li>• StandardizedSeriesCount</li> <li>• StandardizedStudyDescription</li> <li>• StudyModalitiesMapped</li> <li>• StudyModalityMapped</li> </ul>
{ResultsFullJson}	JSON String	<p>A JSON object with the following properties:</p> <ul style="list-style-type: none"> <li>• CdmObjAnatomies</li> <li>• CdmObjAnatomiesMapped</li> <li>• CdmObjAnatomiesWithLateralityMapped</li> <li>• CdmObjKernels</li> <li>• CdmObjKernelsMapped</li> <li>• CdmObjModalities</li> <li>• CdmObjNumericalSliceDescriptorsMapped</li> <li>• CdmObjNumericalSliceThicknessDescriptorsMapped</li> <li>• CdmObjSliceDescriptorsMapped</li> <li>• CdmObjSliceThicknessDescriptors</li> <li>• CdmObjSliceThicknessDescriptorsMapped</li> <li>• CdmObjTypes</li> <li>• CdmObjTypesMapped</li> <li>• CdmObjViews</li> <li>• CdmObjViewsMapped</li> <li>• CdmStudyAnatomy</li> <li>• CdmStudyAnatomyAggregated</li> <li>• CdmStudyAnatomyMapped</li> <li>• CdmStudyAnatomyWithLateralityMapped</li> <li>• CdmStudyAngiogramFlag</li> <li>• CdmStudyContrastFlag</li> <li>• CdmStudyContrastRoute</li> <li>• CdmStudyContrastRouteMapped</li> <li>• CdmStudyGroupCount</li> <li>• CdmStudyGroupCountMapped</li> <li>• CdmStudyIVContrastDescriptor</li> <li>• CdmStudyLaterality</li> <li>• CdmStudyModalities</li> <li>• CdmStudyModality</li> <li>• CdmStudyPhaseCountMapped</li> <li>• CdmStudyStudyPhaseCount</li> </ul>

		<ul style="list-style-type: none"> <li>• CdmStudyType</li> <li>• CdmStudyTypeMapped</li> <li>• CdmStudyViewCount</li> <li>• CdmStudyViewCountMapped</li> <li>• ContrastPresent</li> <li>• GroupCategories</li> <li>• OriginalSeriesDescriptions</li> <li>• OriginalStudyDescription</li> <li>• RecordTypes</li> <li>• StandardizedInstanceCount</li> <li>• StandardizedSeriesCount</li> <li>• StandardizedSeriesDescriptions</li> <li>• StandardizedStudyDescription</li> <li>• StudyModalitiesMapped</li> <li>• StudyModalityMapped</li> </ul>
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**5.1.5.1.4.4 Example HL7 Message Template**

See *Example ORU^R01 using Custom Message Format* for a sample template.