Minimum data set in radiomics for collection in local applications Version 1.0						
Group of items	Operating objective	Item n°	Collection status	Item	Item definition	Expected value
Biomarker calculation criteria	Qualification of criteria for calculating image biomarkers	1.1	Mandatory	Software name	Name of the software used to calculate image biomarkers.	IBSI 61 Character string
		1.2	Mandatory	Software version	Software version used to calculate image biomarkers.	IBSI 61 Character string
		1.3	Mandatory	Location of the calculation method	The field lets you define whether the calculation method has been applied to the entire image (image voxels) or to a region of interest (ROI).	Character string Possible values: LOCAL, GLOBAL
		1.4	Mandatory	Method used or not to filter images before calculation	Field indicating whether or not a method and parameters have been used to filter the images before calculation.	Boolean
		1.5	Mandatory	Distance weighting	Define how CM, RLM, NGTDM and NGLDM weight distances, e.g. no weighting.	Character string IBSI 63
		1.6	Mandatory	Number of gray levels	Number of gray levels used for discretization.	Character string ex. 32, 64, 128, 256, 512
		1.7	Mandatory	Number of bins	Number of bins (FBN) or size of bins (FBS) used for discretization.	IBSI 56b Decimal/Float
		1.8	Mandatory	Resampling intensity method	Resampling intensity method.	Character string Possible values: relative, absolute, mean+-sd, mean+-3sd
		1.9	Mandatory	Lowest discretization intensity of the first bin	Lowest intensity of the first bin for FBS discretization.	Decimal/Float IBSI 56c
		1.10	Mandatory	Boundary intensities after discretization	Boundary intensities after discretization.	Character string ex. 0,100
		1.11	Mandatory	Spatial resampling method	Spatial resampling method.	Character string Possible values : Bicubic spline, Tricubic spline, Lagrangian polynomial
		1.12	Mandatory	Spatial resampling values	Spatial resampling values.	Character string ex. [0.3,0.3,1.2]
		1.13	Mandatory	Description of the calculation of biomarkers based on texture matrices	Define how texture matrix-based biomarkers were calculated from the underlying texture matrices.	Character string IBSI 62
Image transformation	Qualification of methods and parameters used to filter images	2.1	Mandatory	Software name	Name of the software used.	Character string
		2.2	Mandatory	Software version	Software version used.	Character string
		2.3	Mandatory	Filter method	Image filtering method.	Character string Possible values: Mean Filter , Laplacian of Gaussian, Laws Kernels , Gabor, Wavelets, Riesz, Simoncelli
		2.4	Optional	Filter type	Image filter type.	Character string Possible values: Slice-wise (2D), Volume (3D)
		2.5	Optional	Interpolation type	Filter interpolation type.	Character string Possible values: Bicubic spline, Tricubic spline, Lagrangian polynomial

		2.6	Optional	Rounding fractional units Hounsfield	Field used to describe fractional Hounsfield units are rounded to integer values after interpolation.	Integer IBSI 52
		2.7	Optional	Limit condition	Limit condition.	Character string Possible values : zero padding, mirror padding, periodic padding, Constant Value Padding, Nearest Value Padding
Radiomic measurements	Qualification of a radiomic measurement in the IBSI nomenclature	3.1	Mandatory	Unique number	Unique IBSI nomenclature number	Character string
		3.2	Mandatory	Name	Name of the radiomic measurement in the IBSI nomenclature.	Character string
		3.3	Mandatory	Value	Name of radiomic measurement.	Character string