Plan Element Nomenclature

Images

Style

<Modality>_<Technique>_<Anatomic state/site>_**<Date>**_<External>

Modality

Required. Indicates imaging modality.

Common modalities:

CT, MR, CBCT, PET

Examples:

CT_07Sep2016, MR_07Sep2016, CBCT_07Sep2016, PET_07Sep2016

Technique

Optional. Indicates specific imaging technique.

Common techniques:

AVG, MIP, 0%, 50%, Arterial(?), Venous(?), Delayed(?), T1, T2, ADC, DCE, FDG

Examples:

MR_T1_07Sep2016, MR_T2_07Sep2016, MR_ADC_07Sep2016,

Anatomic State/Site

Optional. Indicates the state or the site.

Common states/sites:

IBH, EBH, Preshift, Postshift, BladderFull, BladderEmpty, ERC

Examples:

CT_IBH_07Sep2016, CT_EBH_07Sep2016, CT_Brain_07Sep2016, CT_Femur_07Sep2016, CBCT_Preshift_07Sep2016, CBCT_Postshift_07Sep2016

Date

Required. Indicates the date the image was acquired.

Examples:

CT_06Aug2015, CT_07Sep2016, CT_08Sep2016

External

Required when present. Indicates if the image was acquired outside the Radiation Medicine Program.

CT_07Sep2016_External

Special Cases

4DCT Groups

Label as 4DCT_<date>

Beam Name (RS) / Field ID (MQ)

Style

<Beam Set Index><Beam Index><.Alternating Day Index>

Beam Set Index

Required. Indicates Beam Set and is consistent for a group of beams.

Examples:

A1, B1, C1

Beam Index

Required. Beam number within a Beam Set.

Examples:

A1, A2, A3

Alternating Day Index

Optional. Beam number within a Beam Set.

Examples:

A1.1, A2.1

Beam Description (RS) / Field Name (MQ)

Style

<Beam Set Index>_<Ref><PI><Bolus><G"Gantry Angle"> <Arc"Arc Span""Arc Direction"> <C"Couch Angle"><Carriage Group>

Beam Set Index

Required. Indicates Beam Set and is consistent for a group of beams.

Examples:

A_G0, B_Arc360CCW

Ref

Optional. Indicates a beam is for reference only and not for treatment.

Examples:

A_RefG0, B_RefArc360CCW

Bolus

Optional. Indicates a beam is to localize bolus only and not for treatment.

Examples:

A_BolusG0, B_BolusG90

PI

Optional. Indicates a beam is for imaging only and not for treatment.

Examples:

A_PIG0, B_PIG270

Gantry Angle

For 3D-CRT and IMRT fields. Indicates the gantry angle of the beam.

Examples:

A_G0, B_G320

Couch Angle

Optional. Not required when angle is zero. Indicates the couch angle of the beam.

Examples:

A_G0C90, B_G320C30

Arc Span and Direction

For VMAT fields. Indicates the length and direction of the arc.

Examples:

A_Arc360CCW, B_Arc90CW

Multiple Treatment Fields at Same Gantry Angle

Optional. For IMRT fields when carriage group splitting is required. Indicates apertures tend toward the Varian X1 jaw or X2 jaw.

Alternatively, can be used to differentiate multiple treatment fields that are geometrically similar but differ in energy.

Examples:

A_G0X1, A_G0X2

Beam Set

Style

<Beam Set Index>.<Site><_Laterality

Beam Set Index

Required. Indicates Beam Set and is consistent with the beam set index for the beams in the beam set.

Examples:

A.OPX_L, B.Lung, C.TSpine

Site

Required. Indicates treated site, anatomic location, or volume. Site plus laterality must not exceed 14 characters.

Examples:

A.Breast_IM_L, B.Breast_SA_L

Laterality

Optional. Indicates left or right-sided treatment. Site plus laterality must not exceed 14 characters.

Examples:

A.Breast_L, B.Breast_R

Plan

Style

<Treatment>_<Beam Set Indices>

Treatment

Required. Indicates the site and type of treatment.

Examples:

Breast_L_A, Breast_R_B

Beam Set Indices

Required. Indicates the Beam Sets contained within the plan and is consistent with the beam set index for the beams in the beam sets.

Examples:

Prostate _A, ProstateNodes_AB

Points

Laser Position

The point that represents the intersection of the lasers at CT-simulation is always named CT SETUP

Prescription

Consists of "ICRU" and a letter indicating the associated beams

Style

ICRU_<Beam Set Index>

Beam Set Index

Required. Indicates Beam Set and is consistent with the beam set index for the beams in the beam set.

Examples:

ICRU_A, ICRU_B

Isocentres

Consists of "Iso", a letter indicating the associated beams, and an optional description

Style

Iso_<Beam Set Index>_<description>

Beam Set Index

Required. Indicates Beam Set and is consistent with the beam set index for the beams in the beam set.

Examples:

Iso_A, Iso_B

Description

Optional. Used when an additional description is required to distinguish the isocentres.

Examples:

Iso_A_Sup, Iso_B_Inf

Dose Specification Points

Consists of “DSP” and a description

Style

DSP_<description>

Description

Required. The description can refer to the location of a prescription point, an alternative point, or a specific associated beam.

Examples:

DSP_ICRU_A, DSP_Iso_A, DSP_G120

Others (markers, tattoos, automated points)

Points for tattoos and markers refer to location on body that they indicate.

“Ref” will prefix points created for reference or measurements.

“Reg” will prefix points created for image registration.

Examples

INF, SUP, LAT, MED, ANT

RefTTH, RefCouch

RegAnterior, Reg1