

ACNS1422 Medulloblastoma
Protocol Concise Atlas

Study Radiation Oncologists:

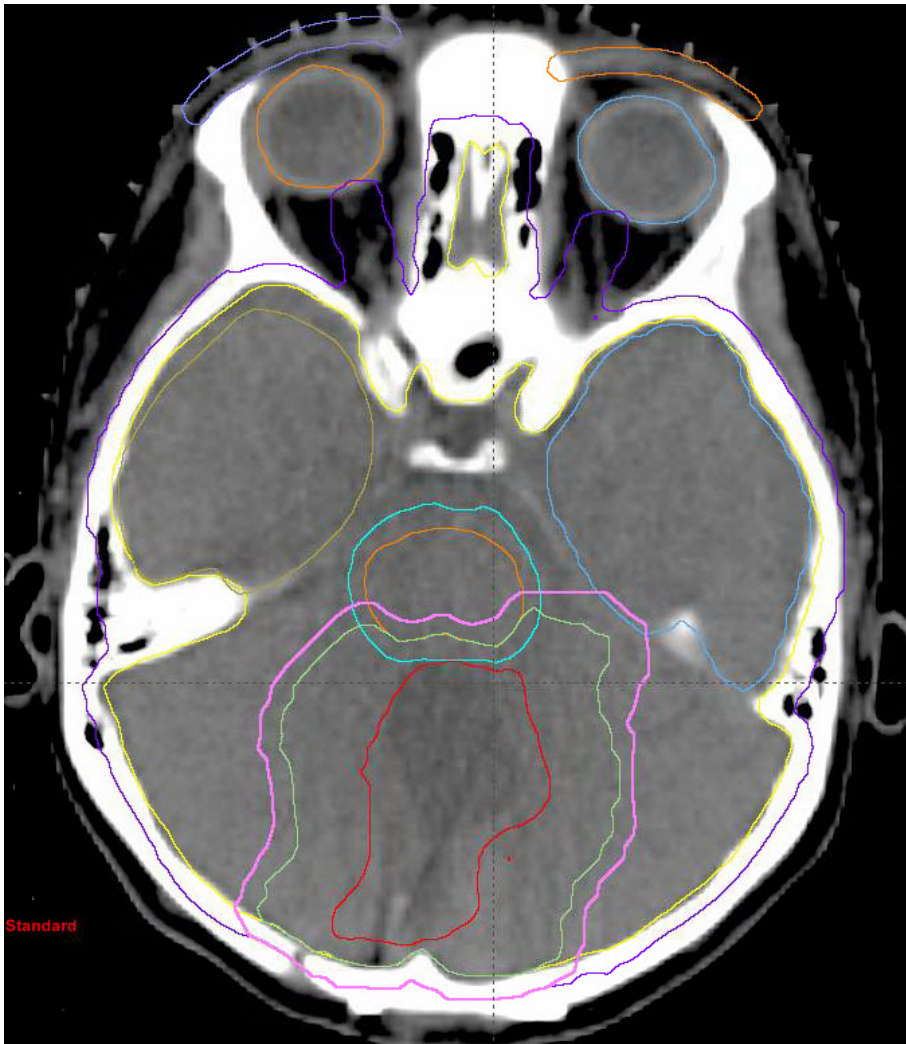
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The Brain Region - When the brainstem was confirmed to be involved image 1.



Structures:

PTVcsi = purple

CTVcsi = green

Brain = yellow

Brainstem = cyan

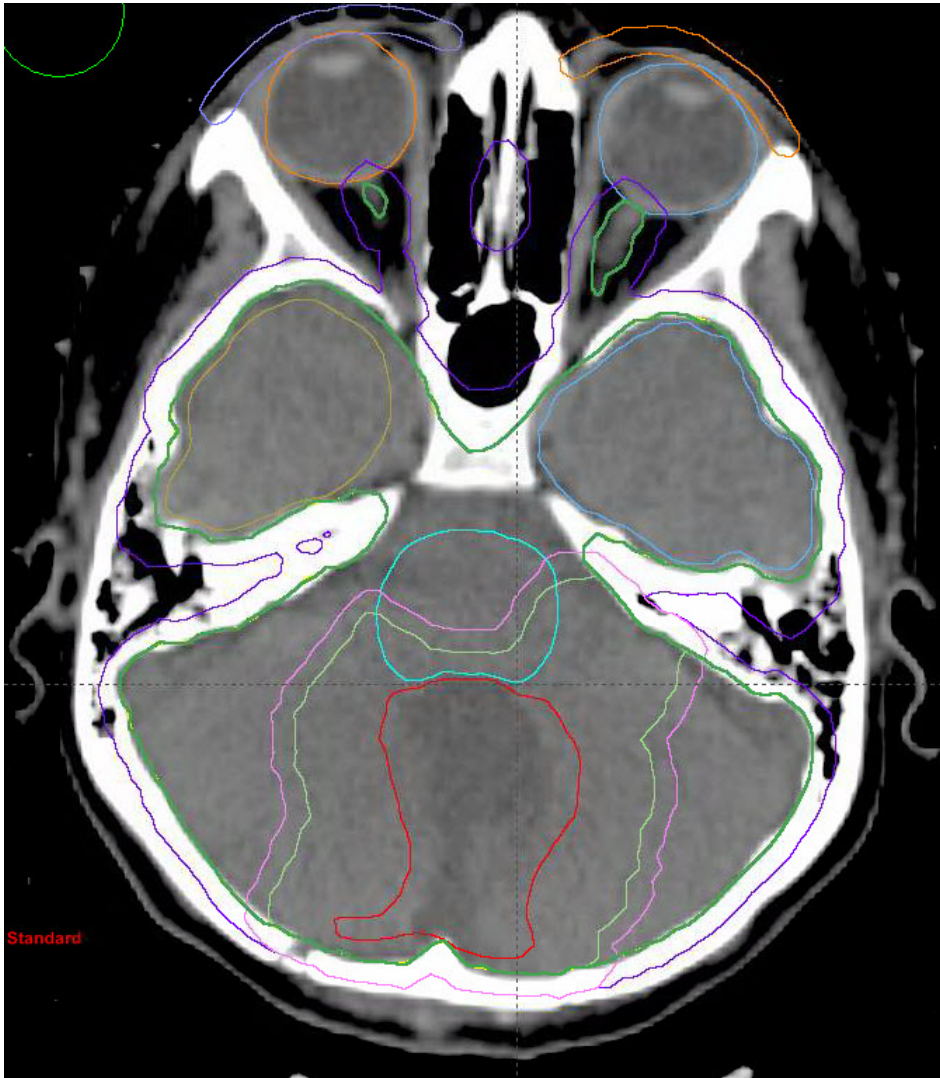
GTV = red

CTVboost = light green

PTVboost = pink

Once can also see cochleae (bone windows are used), lid region constructs (optional, 4mm painted regions anterior to the globes), temporal lobes (MRI derived in this case), and orbits. **Note that both the CTVboost and PTVboost enter the brainstem. If one lacks information about brainstem involvement, this is the default method to use for CTVboost.**

The Brain Region - When the brainstem was confirmed to be involved image 2.



Structures:

PTVcsi = purple

CTVcsi = green

Brain = yellow

Brainstem = cyan

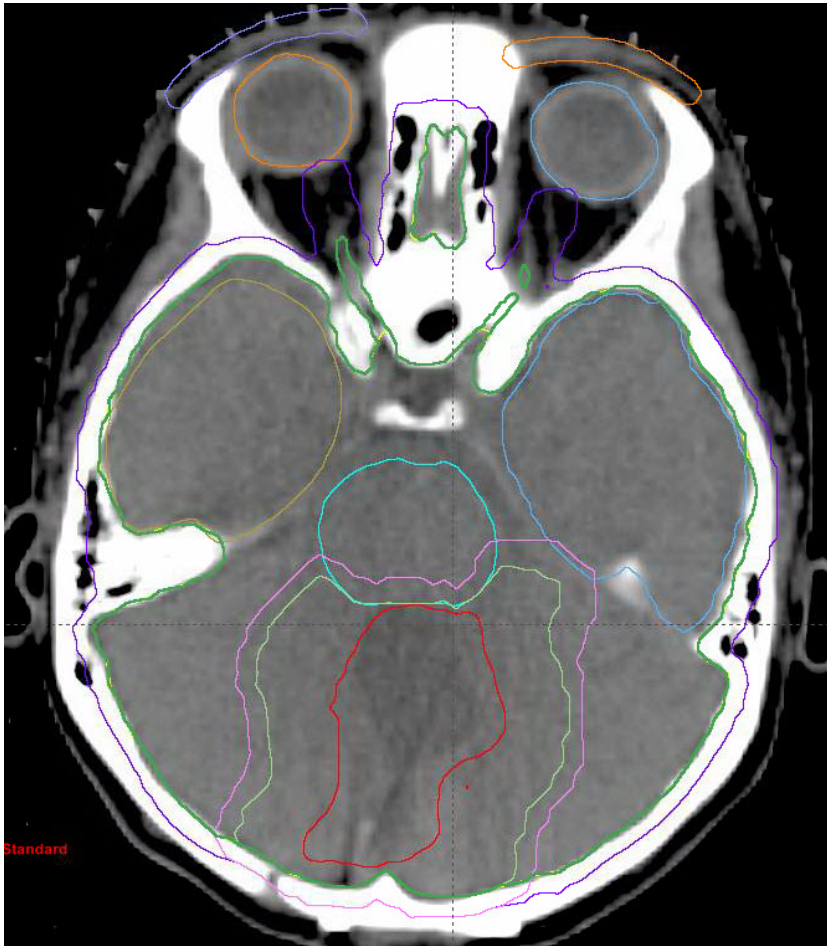
GTV = red

CTVboost = light green

PTVboost = pink

This is the same situation as the prior image except it is 6 mm lower on the patient. **Note that both the CTVboost and PTVboost enter the brainstem. If one lacks information about brainstem involvement, this is the default method to use for CTVboost.**

The Brain Region - When the brainstem was confirmed to be uninvolved image 1.



Structures:

PTVcsi = purple

CTVcsi = green

Brain = yellow

Brainstem = cyan

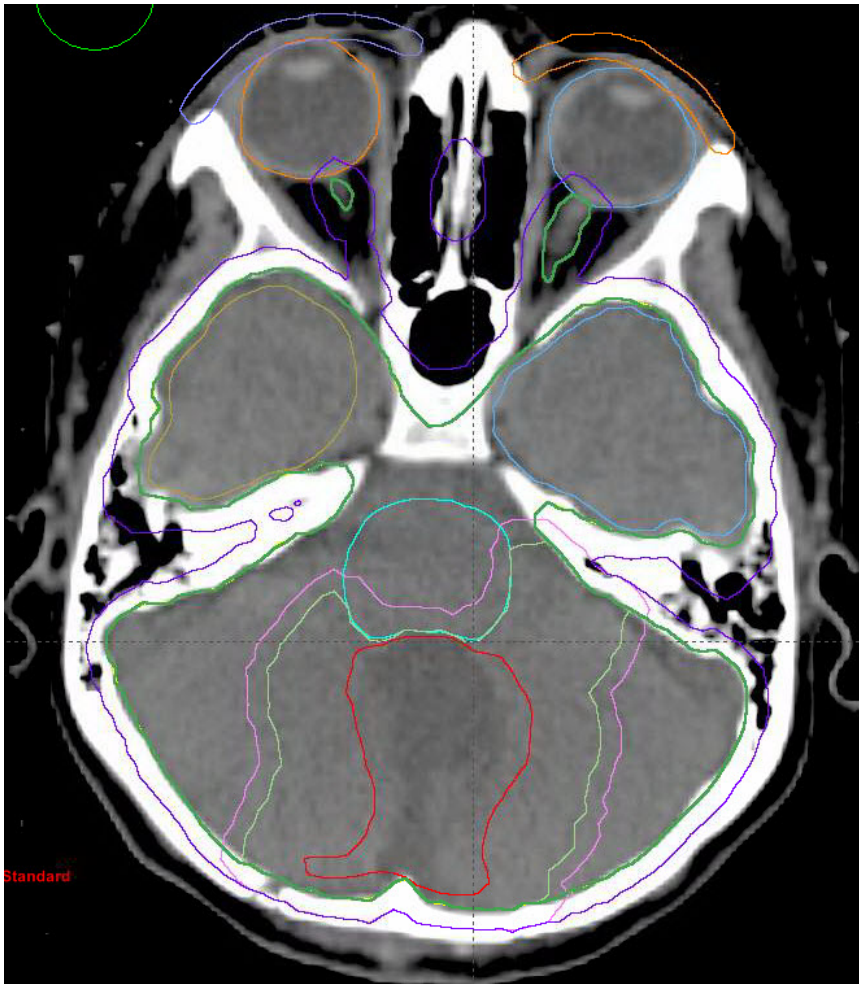
GTV = red

CTVboost = light green

PTVboost = pink

One can also see cochleae (bone windows are used), lid region constructs (optional, 4mm painted regions anterior to the globes), temporal lobes (MRI derived in this case), and orbits. **Note the CTVboost does not enter the brainstem but the PTVboost does.**

The Brain Region - When the brainstem was confirmed to be uninvolved image 2.



Structures:

PTVcsi = purple

CTVcsi = green

Brain = yellow

Brainstem = cyan

GTV = red

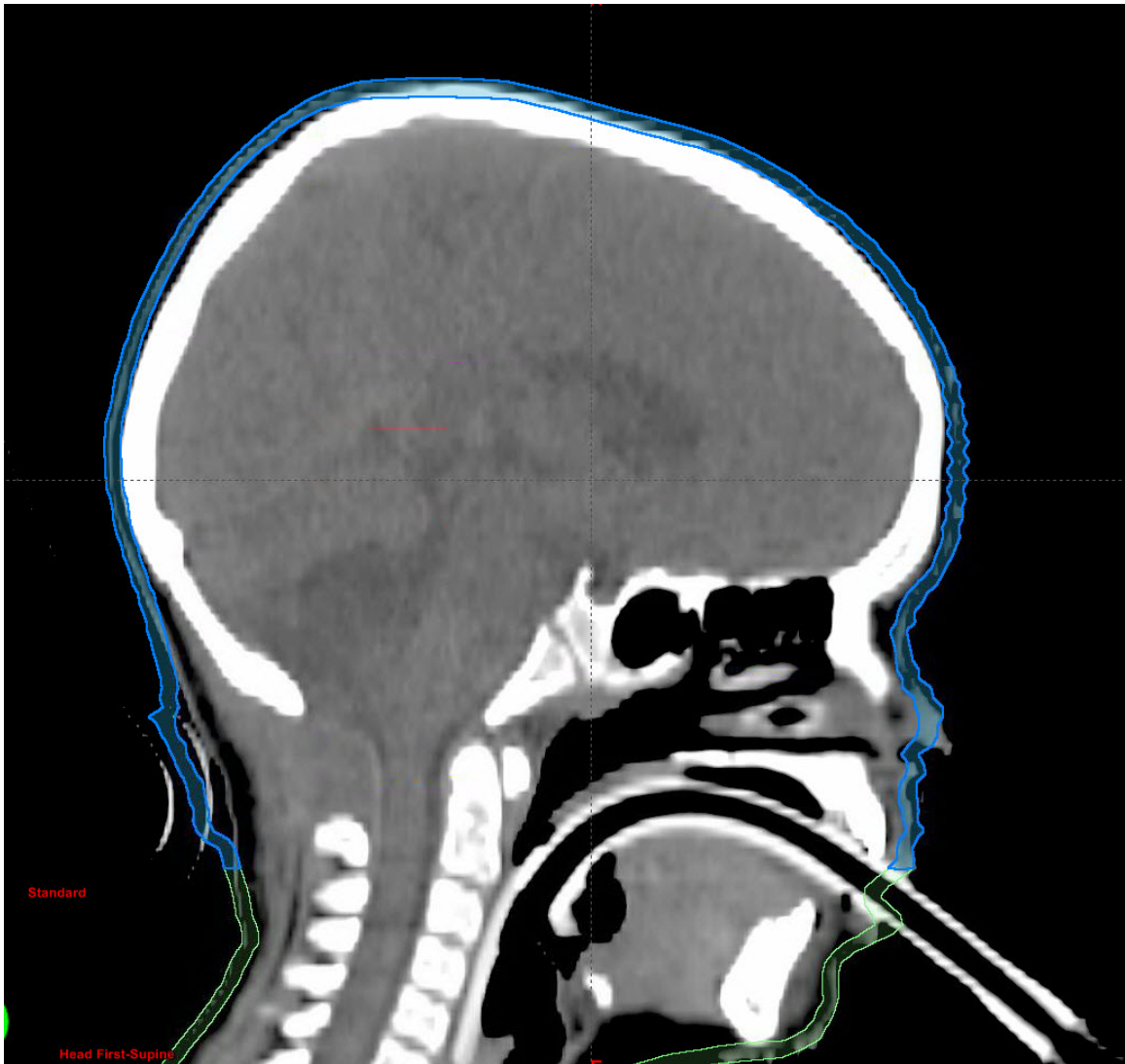
CTVboost = light green

PTVboost = pink

This is the same situation as the prior image except it is 6 mm lower on the patient

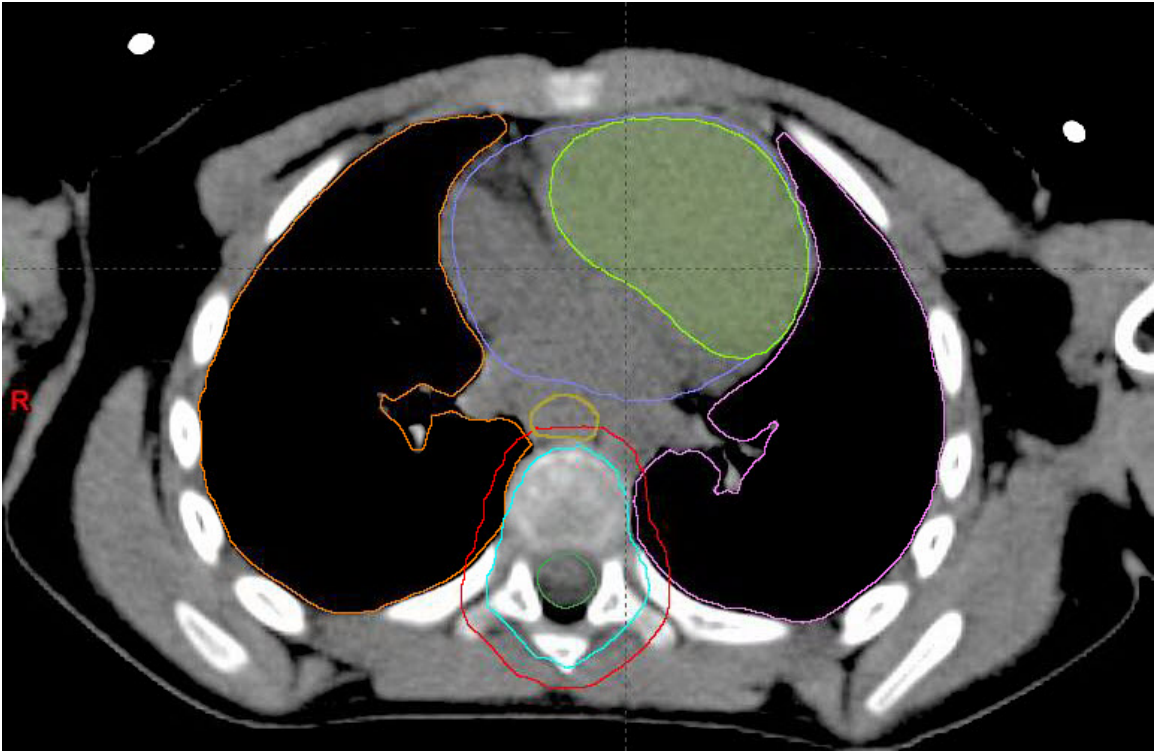
Note the CTVboost does not enter the brainstem but the PTV boost does.

The Scalp Construct



Note the scalp construct is a portion of the skin. Skin for this protocol is defined as a 3mm thick shell defined by the body contour on the outside (green). The scalp is simply the region above C3 and is over-simplified on purpose (blue).

The Spine Region in a Young Patient (growth plates not yet fused)



Structures:

PTVcsi = red

CTVcsi = cyan

Spinal cord = green

Left Lung = pink

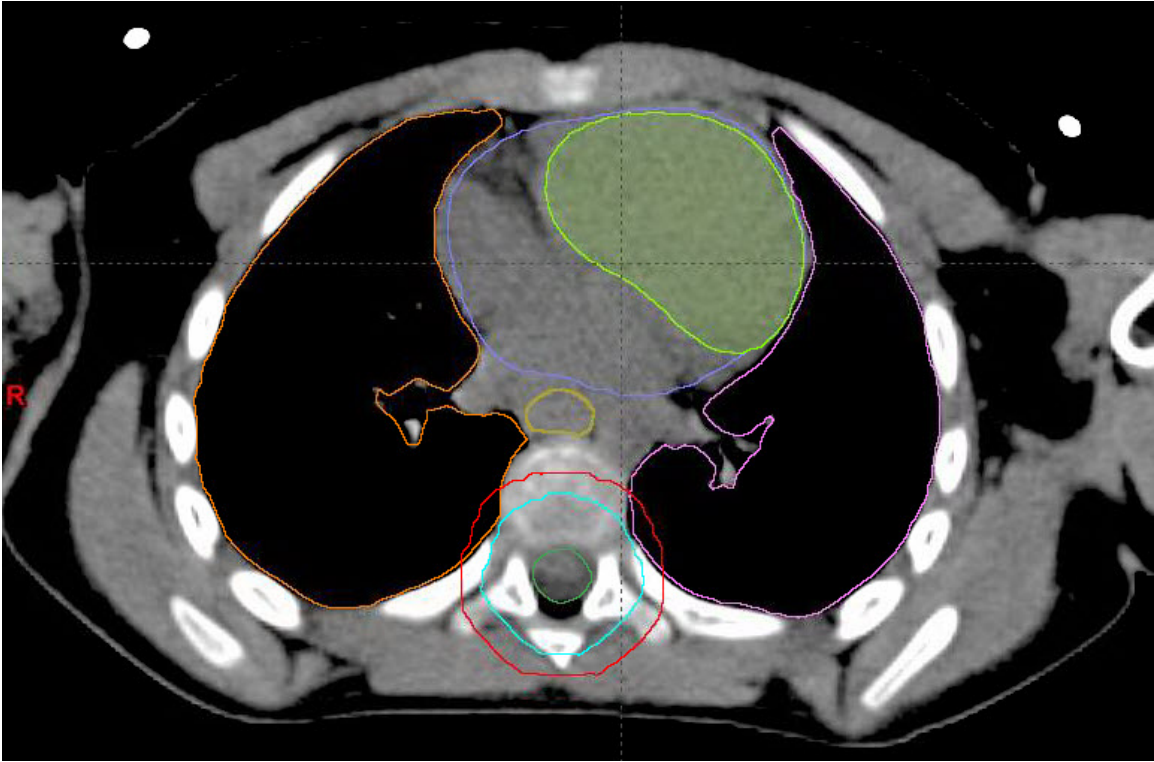
Right Lung = orange

Heart = purple

Left Ventricle = lemon green

Esophagus = gold

The Spine Region in an Older Patient (growth plates fused)



Structures:

PTVcsi = red

CTVcsi = cyan

Spinal cord = green

Left Lung = pink

Right Lung = orange

Heart = purple

Left Ventricle = lemon green

Esophagus = gold