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CMS, Inc. Applies for 510(k) for Atlas-Based Autosegmentation

St. Louis, MO (April 18, 2008) - CMS, Inc., an Elekta Company and the worldwide market leader in radiation treatment planning and workflow management solutions, has completed internal and external validation testing for its new Atlas-Based Autosegmentation solution. The company has proceeded with applying to the Food and Drug Administration for 510(k) clearance to distribute CMS Atlas-Based Autosegmentation in the U.S. market.

CMS Atlas-Based Autosegmentation is a standalone software application that produces estimates of anatomy boundary contours needed to create a radiotherapy treatment plan. Designed with an easy-to-use interface, this program communicates with radiotherapy planning programs via DICOM-format data. Editing approximately correct contours takes less time than drawing them fully, giving the user more time to plan a treatment.

An atlas is simply an existing CT image with anatomy contours. Atlas-Based Autosegmentation uses deformable registration to match the atlas image to corresponding points in a novel patient image. The atlas contours are then mapped onto the patient using that deformation. Users are free to create new atlases or to modify existing atlases to contour patients spanning ranges of conformations and diagnoses. Atlases can even be patient-specific to contour images taken during the course of treatment.

"CMS Atlas-Based Autosegmentation represents a significant advancement to workflow and patient planning efficiency," said Andrew Cowen, president of CMS. "The Atlas-Based Auto Segmentation application saves clinician time by automatically contouring new image sets based on the anatomy defined in the atlas which the user may further edit and refine."

CMS is a member of the Elekta family of companies and a worldwide leader in the development and support of radiation treatment planning and workflow management solutions. With treatment planning systems installed in more than 1,500 sites worldwide, CMS is a global resource to the radiation oncology community. CMS employs 290 professionals in its headquarters located in St. Louis, MO and regional offices in Tampa, Florida; Freiburg, Germany; Tokyo, Japan; Sydney, Australia; and Shanghai, China.