

**Purpose:**

To develop a cross platform, open source, web accessible, Java based treatment plan visualization and evaluation software using the ImageJ toolkit.

**Method and Materials:**

The application can be launched from any web browser with Java Web Start. The treatment plan and structures may be imported in Pinnacle<sup>TM</sup> or in DICOM format. For Pinnacle format, the patients and plans may be selected from the clinical database. This system supports the standard viewing of isodose lines, regions of interest and dose volume histograms generated in real time. To assist in plan evaluation, the software can automatically compare the DVHs to planning guidelines to ensure both target coverage and normal tissue tolerances. The constraints can be volumetric or absolute.

**Conclusion:**

We have written an open source software tool that allows one to review a treatment plan remotely from any web browser. To facilitate research, dose volumes can be imported in binary format and dose volumes and DVHs can be exported as binary or ASCII. Future plans include a fast dose calculation engine for both photon and proton treatments and better support of batch processing through macros.

**Conflict of Interest:**

SRA with Philips Medical Systems.