Frequently Asked Questions and User Feedbacks.

Updated: ***05/18/2012***

1. Who will be benefited from the HART program?

→ The program is especially useful to the Physicians, Oncologists, Clinical Physicists and Dosimetrists involved in the clinical trial studies or research data analyses using various types of radiation therapy treatment plans.

2. How to install HART in Linux platform?

→ *Solution recommended by **Dr Santam Chakrabarty**, India*:

I tried to create a C: folder in Linux but that fails as the directory itself is not set as a path in matlab. It works nicely if I place the NWRR directory itself in the bin folder inside matlab without issues. However since all users may not have root access to the Matlab directory, maybe this can be looked into. The big advantage of not hardcoding the path would be it would work irrespective of the Operating System used.

3. Has HART been tested for non-Pinnacle planning systems, eg. Oncentra MasterPlan or TomoTherapy's planning system (TPS)? It's just we don't have Pinnacle in our center and I was hoping to use HART as an independent test of the planning systems we have available here (Master Plan, Tomo- and Monacco) ?

*(Question by **Stephen Hedley**, the James Cook University Hospital at United Kingdom)*

→ Yes it is. The HART program is a universal tool for radiation therapy research using all types of the TPSs.

4. How do you efficiently trouble-shoot the cumulative dose-volume histogram (cDVH) analysis module in the DICOM-RT sections of the HART program on the older versions of MATLAB (eg. R14-SP3).

→ *Solution recommended by **Stephen Hedley,** (RTR) South Tees NHS Trust, UK:*

The primary problem was that an attribute in the dose DICOM (RD*.dcm) was not being recognized when using dicominfo. This was despite it being entered into the dictionary contained within the MATLAB root directory (dicom-dict.txt). Modifying the DICOMDVH.m code (C:\NWRR DIR\HART\DICOMRT\cDVH\DICOMDVH.m) to implicitly specify using dicom-dict.txt prior to the use of dicominfo (see below) seemed to solve this. However, the dicominfo should use dicom-dict.txt by default:

```
% Need to specify DICOM dictionary - for use with older versions of MATLAB (e.g.R14 SP3)
                dictionary = [matlabroot '\toolbox\images\medformats\dicom-dict.txt'];
% To read the default DICOM dictionary
   ANS = questdlg(['Use the following dicom dictionary? :'...
         sprintf('\n') dictionary sprintf('\n') '(Default = Yes)' ],...
        'HART','Yes','No','Yes');
switch ANS                                                    % Allows user to select a different DICOM dictionary
  case 'Yes'      disp(['DICOM dictionary selected = '' dictionary  '' ])
  case{'No', ''}  [dictFile dictPath] = uigetfile('*.txt' , 'HART: Select DICOM dictionary' ,matlabroot); dictionary = [dictPath '\' dictFile];
end
```

dicomdict('set' , dictionary); %ensure dictionary has all the correct DICOM attributes for the planning systems you are using

% Need *to specify dictionary implicitly in the z= DICOMDVH.m, prior to the calculation of the DVHs for each RT structure*

info2 = dicominfo(z , 'dictionary', dictionary); [m1 n1] = size(fields(info2.DVHSequence));

5.