

# World wide acclaim for SharpView<sup>®</sup> CT



CUSTOMER COMMITMENT

## As SharpView continues to gather momentum around the world, more and more clinicians are becoming aware of the benefits that low dose radiation CT bring. Here, some of our clients share their views on SharpView® CT.

Simply reducing noise through higher radiation level is an inefficient and unethical way to improve image quality. It is inefficient because the reduction of noise only corresponds to the square root of the dosage increase. And it is unethical because the patient should not have to be exposed to increased risk of radiation-induced cancer in order to get a more reliable diagnosis. Adaptive filters are a better solution – they reduce the noise while at the same time they accentuate diagnostically relevant structures.



JERKER EDÉN STRINDBERG  
Physicist. Medicinsk Röntgen AB,  
Private Clinics, Stockholm,  
SWEDEN

Developments in CT X-ray are happening very fast and the number of CT examinations is increasing. Therefore we have to focus on solutions that reduce the radiation level to which patients are exposed. Awareness of the need for low-dosage must increase, and products like SharpView® CT are going to be very significant for these ambitions.



ANDERS PERSSON  
MD, Director Center for Medical  
Image Science and Visualization  
(CMIV), Linköping, SWEDEN

In order to reduce the risk of cancer as a result of radiation, it is important to reduce the radiation level in CT examinations as much as possible without compromising on image quality. The results show that SharpView® CT filter software significantly improved the diagnostic results at every dosage level. SharpView® CT enables a radiation dose reduction of 30% with maintained, and in certain cases, even improved image quality.

–The study shows that it is possible to decrease the CT radiation dose of liver examinations with this type of filter software.



ANNE CATRINE MARTINSEN  
Physicist M.Sc. Department of  
Diagnostic Physics, Division of  
Radiology Ullevaal University  
Hospital, Oslo, NORWAY

Today, medical examinations constitute the biggest single exposure to radiation for the general population, according to the Swedish Radiation Protection Authority and CT examination is a significant contributory factor in that rise. An intense discussion is taking place within radiology about which measures one can take in order to reduce the dose of CT examinations. When there is a technology on the market that can reduce radiation level, it is our obligation to patients to acquire it, to be able to increase the quality of examinations.

–We at the Imaging Department at Håssleholm Hospital are of course very proud to be in vanguard when it comes to decreasing the radiation dose that patients are exposed to during CT examinations.



OLOF JARLMAN  
MD, Håssleholms Hospital,  
Håssleholm, SWEDEN

“ SharpView® CT, with their GOP® technology, is an effective algorithm that we have evaluated for reducing noise, improving sharpness of structures, and most importantly to reduce CT radiation doses. Our research studies point out some important features of the algorithm like preserved HU and sharpness of small structures such as small vessels in the lung, without creation of artifacts.

The possibility to customize SharpView® CT is also an important benefit since every radiology department has their own protocols and preferences. Work is in progress with SharpView algorithms to decrease the radiation dose further both with the existing version of the product as well as with new exciting algorithm research.



MANNUDEEP KALRA  
MD, Research leader  
Massachusetts General Hospital,  
Boston, USA

“ To be exposed to radiation always means a risk of cancer. We are already working to lower our CT dosages but now we are able to achieve a very significant reduction. We see reduction rates of 30% without compromising the image or diagnostic quality. We value this as a promising beginning says Professor Mödder.

Using the new SharpView® CT software is our clinical response to the high doses inherent in CT examinations. We are now confident that we are able to lower the radiation dosages of CT examinations.



ULRICH MÖDDER  
Prof. Dr. Med. Düsseldorf University  
Hospital (UKD) Düsseldorf,  
GERMANY

“ All digital images are processed, and it would be unethical not to look for new ways to reduce the CT dosage. SharpView® CT is a powerful tool to reach this goal. We have good results with SharpView and have succeeded in reducing the radiation level by an average of 50% in abdominal and thoracic examinations.



LARS WESTMAN  
MD PhD, Head of Radiology  
Medicinsk Röntgen AB, Private  
Clinics, Stockholm, SWEDEN

“ Since radiation can induce cancer it is important to lower the radiation dose as much as possible for CT examinations. With the software from SharpView can we lower the dose and still achieve sharp CT images.

PETER LEANDER, MD, Head of Department of Diagnostic Imaging, Division of Radiology. University Hospital Malmö Allmänna Sjukhus UMAS, Malmö, SWEDEN

“ SharpView® CT gives us the possibility to carry out examinations with lower dose and maintained picture quality. With the installation of SharpView® CT we want to optimize each examination so that the CT radiation dose is the lowest possible and the picture quality is the highest possible.

–We initially use SharpView® CT for abdominal scans. We are convinced that we will lower the radiation dose significantly with this software says John Nyhus.

JOHN NYHUS, Head of Research and Development Sentrum Röntgeninstitut AS, Oslo, NORWAY





SharpView AB is a leading supplier of medical image quality optimization and CT radiation dose reduction technology. As a Partner of ContextVision AB, SharpView benefits from over 25 years sector experience. SharpView has its headquarters in Sweden and is listed on the stock-market. For more information please visit: [www.sharpview.com](http://www.sharpview.com)