Siemens Medical Solutions, Stockholm Conference
Magnetom Espree

Version 3_2

One large screen for graphic, video roll and live images shot from hand-held.
The Showcase: Siemens' Open Bore MR, the Magnetom Espree

A moderator hosts the presentation

Subject	*Story*	Action cameraman	Action Host/ Action actors	typo keying/multimedia keying
Intro	*Driving music underscores the opening countdown. After the clock reaches zero the music continues until it fades out under emerging text that reads: Tim and Magnetom Espree: A New Dimension in Cardiac Imaging.* *The moderator enters and crosses DS of Espree.* Good Morning and welcome to Siemens' MR showcase.			Countdown geht über in TEXT: "New advances in Cardiovasculare MR"
Intro	Are you all ready for TIM? Great! You won't have to wait long. My name is Steve...not Time. TIM is Siemens' revolutionary Total Imaging Matrix technology which is shown here together with the Magnetom Espree, the world's first open bore 1.5 T MRI system and also the world's shortest MR system . As you are all aware, patient needs, as well as your own, have changed over time. The fact is, more and more people are showing up in your daily practice exhibiting symptoms of heart disease or heart failure. The causes are numerous but include diabetes and obesity. It is obvious that these patients need to improve their lifestyles, diets and monitoring of their health, but what about diagnosis and therapy?			Live Bild

	As you know, cardiovascular disease does not just affect the heart alone. Our goal here today at Siemens is to show you, the physicians, a unique and absolutely innovative solution to your diagnostic and interventional procedures and TIM plays an important role in that. Our goal was simple: Give cardiologists the possibility of acquiring the full picture of cardiovascular disease, including the heart and the complete vascular tree, while at the same time create a comfortable MR experience for patients and reduce the total exam time. The end result - faster diagnosis and resolution to the individual clinical problem .			Text The full picture
MR in Cardiology	Everybody knows that MR has long since been used in cases of cranial abnormalities or common orthopedic problems but what you may not know is that MR is already an established gold standard for quantitative analysis of ventricular function and diagnosis of myocardial infarction down to the sub-endocardial level. In just a moment we'll look at a couple of cases that support this.			Full Screen) MR Bild infarct subendocardial Und 3D funktion
MR in Cardiology	At Siemens, we pride ourselves on innovations, and our latest development allows you, for the first time not only a precise definition of the infarct size and the quantification of a transmural infarct, but also a view of the contractility of the scar; a new kind of information which was not available before. MR can not only diagnose the presence, or absence of even the smallest infarcts, it is also more and more used as a prognostic tool, predicting the success of a therapeutic decision, e.g. the probability of functional recovery <u>after</u> intervention.			MR Bild cine-late enhancement
MR in Cardiology (cont.)	Lets take a look at our first example: A 62 year old patient with a myocardial infarction. The nuclear scan showed it as transmural. Based on this, the contractile function would not be improved with further			Nuclear bild function und infarct vor intervention,

	intervention. But when an MRI delayed enhancement scan was used, the images showed the infarct as not completely transmural. Thanks to these images, the patient, it was determined, would most likely benefit from an intervention. He was sent to the cathlab, and as you can see in the follow up exam, the contractile function did in fact improve. Using TIM and our latest developments like AutoViability, which make the MR a true push button exam, you can get this kind of information about function and infarct size within 15 minutes. So, as you can see, MR is able to provide unique information that can change your therapeutic decisions.			vergleich funktion vor und nach intervention

Why Magnetom Espree?	But what about imaging and diagnosing overweight or diabetic patients? As mentioned earlier, their numbers are increasing, as are the challenges in clinical care. Siemen's MAGNETOM Espree is the solution for this challenge. Its' unique open bore design virtually removes comfort concerns and claustrophobia and is also the ideal system for obese patients. To visualize Espree's accessibility and patient comfort enhancements, I'd like a volunteer to come up here (Introduction of the volunteer and going over to the MR. With Espree's short 125cm magnet, most applications can actually be done with the patient's head outside the Open Bore. (To volunteer) Plenty of room in there, huh? As you know the mortality rate from CV disease is three times higher for obese patients. Up to now, these patients often did not fit in a high field system and had to be scanned at lower field strength with poor image results. Well, the MAGNETOM Espree offers all the advantages of a clinical high-end system. Add to that its' open bore design and shortened length, and you can now examine patients up to 300 kg.	Focus auf Patienten im MR	Volunteer on the table, actor moeve himin the scanner While he talks the volunteer experiences the space in the magent by lifting his feet and lookin garound Actor moves table out while speaking	Text "MAGNETOM Espree 1.5 T + 70cm + 125cm + Tim"

Tim	The brains behind the Magnetom Espree is our unique TIM technology, which allows you to get the full clinical picture of this kind of systemic disease. Total Field-of-View's of up to 205 cm can be acquired using a combination of our exclusive coil arrays: *(show coils on the ppt and two body matrix coils on the mock up.)*. What do these TIM coils provide? ▪ First, a look at the entire vascular tree and/or it's subsections in less than 15 min. With <u>one</u> mouse click and **without patient repositioning,** you can move the scan region right to the heart. From there, you can easily zoom in and see if damage to the heart muscle has already occurred, like in this patient with diabetes. ▪ Secondly, FOV's are selected by simply deciding what it is you want to see, not by having to change different coils. ▪ Finally, you can complete this whole exam in 45 min.	.	Actor takes two coils and puts them loosely on the volunteer. Puts them away again and volunteer leaves the table while actor points to the screen	Case example:whole body angio with peripheral disease and infarct in the heart

Increased throughput	Oh, one last thing, with Siemen's exclusive TIM technology and the Espree, studies published recently show an increased throughput of 25 % for such a combined cardiovascular exam compared to systems without TIM technology. A true proven outcome from the clinical and business perspective!		Study screenshot	Text Increased throughput of 25% (Transparent)
Connectivity/ Integration	TIM, along with Siemen's various MR modalites are not stand alone innovations for those of you that might be thinking this. Thanks to Siemen's Syngo software platform, you have a universal approach to integrated medical imaging, providing a uniform working environment throughout clinic networks and beyond. Let me show you an example of this: We have a patient with cardiac arrhythmia scheduled for an EP ablation. To better plan the EP procedure, an MR data set of the entire heart morphology is acquired and done so within 10 min. The information acquired is sent to our *syngo* InSpace EP software, which prepares the MR data in a way that can be easily fused with the EP maps. This data becomes instantly available in the EP lab for a precise planning of the ablation and can be used to display the anatomical structure throughout the procedure. Because of syngo software, we can also easily acquire and use any CT data as well.	.		MR avi whole heart einmal schichtweise einemal volume rendered Bild resultat InSPACE EP fusion
Conclusion	So the challenge today is clear: How can we better diagnose and treat cardiovascular disease? The answer is TIM technology, an unsurpassed innovation. TIM, along with our 1.5T and 3T TIM systems – the MAGNETOM Avanto, MAGNETOM Trio and the MAGNETOM Espree, are installed in over 600 facilities world wide. In order to more effectively pinpoint the exact nature of			Text 600 Tim systems installed

	cardiovascular issues, we created the TIM system. TIM allows you to more accurately visualize the heart and vascular system, providing crucial information for better diagnosis and better treatment of each individual patient. Ladies and Gentlemen, our goal at Siemens is clear - devise solutions to solve the challenges you face; in short, provide you with proven outcomes. To find out more detailed information, or have a detailed demonstration of our TIM systems, please take the time to come into our booth and visit our reps. They are eager to answer any questions you might have about the Espree, other Magnetom systems or the various Siemens technologies like InSPACE EP available to you.			Proven Outcomes Animation (Full Screen) Siemens Sound Logo
	Thank you and enjoy your time at ESC 2005.			Proven Outcomes Animation (Full Screen) Siemens Sound Logo