

Heart Failure: *Echo's role in an emerging health crisis*

Author: Joseph Kisslo, MD
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Europe, Middle East and Americas Broadcasts
 10:00pm-2:30am Saturday 2 February 2002
 Languages: English and Spanish
Americas Broadcast
 04:00am-07:30am Sunday 3 February 2002
 Languages: English and Spanish

COLOR C Joseph Kisslo, MD - host

Numbers are seating arrangements
USA 1 Randolph Martin, MD - Moderator
 4 Steven Bolling, MD - At panel
 3 Harry Rakowski, MD - At panel
 2 Ingela Schnittger, MD - At panel

Europe 1 Mark Monaghan, PhD - Moderator
 2 Luciano Agati, MD - At panel
 3 Jean-Louis Vanoverschelde, MD -At panel

Asia-Pacific Broadcast
 12:30pm-5pm Sunday 3 February, 2002
 Languages: English, Chinese and Japanese

COLOR C Joseph Kisslo, MD - Host


AP 1 Michael Feneley, MD - Moderator
 4 David Adams, RCDS - At panel
 2 Zhian Li, MD - At panel
 3 Junichi Yoshikawa - At panel

On tape: David Adams, RCDS
 John Alexander, MD
 Kitty Kisslo, BS, RCDS
 Karen Strub, RCDS
 Eric Velazquez, MD
 Robert Waugh, MD
 Tim Mickelson

ver 10.4
Faculty Distribution Version
Very tight on time

 = Taped lectures T-W-T for broadcast Saturday/Sunday

 = Important notes for Director

 = Tape on Euro Broadcast for show on Americas Broadcast

 = Self contained tape roll-in from Duke



**LANGUAGES FOR
 FOR TAPING/BROADCAST**



= Element number. This is how we communicate about your participation. Please ID your parts by these numbers.

#	Length	In	Out	Translate	Type	Source	Person(s)	Title and comments
1.00	0:02:30	0:00:00	to 0:02:30	None	Program intro	Tape	Tape	HEAD STACK AND SAT SIGNATURE
	0:00:00	0:00:00	to 0:00:00	None	Tape intro	Tape	Tape	PROGRAM INTRODUCTION

INTRODUCTION AND CONTENT LAYOUT

1.50	0:02:00	0:02:30 to 0:04:30	LIVE		COLOR	KISSLO	LEADS TO ADAMS/STRUB
						Joe turns to screen	out to David on tape
2.00	0:01:10	0:04:30 to 0:05:40	Tape	Introduction	Tape	ADAMS/STRUB	INTRO AND PATIENT 1A: DILATED CARDIOMYOPATHY
			Spanish	Lab patient			. Introduces Karen
			Chinese				. Case
			Japanese			Out to Joe	. Describes what they will be doing
							. We will return to this patient
						Joe turns from screen	
4.00	0:02:30	0:05:40 to 0:08:10	LIVE	Introduction	COLOR	KISSLO	LAY OUT THE BASIC FRAMEWORK OF FAILURE
				SLIDES			out to Randy /Michael AP
4.50	0:01:30	0:08:10 to 0:09:40	LIVE	Orientation		MARTIN to MONAGHAN	. Talk about how to send in questions
					USA		. Talk about US and Euro panels
					Euro		. How to send in questions
					AP	FENELEY	. We don't meet panel yet
						out to Joe	

PART I: EMERGING CRISIS OF HEART FAILURE

7.00	0:01:30	0:09:40 to 0:11:10	LIVE	Transition	COLOR	KISSLO	TRANSITION and TO PATHOLOGY
			None	Tape locatore	Tape		OUTLINE
						Live studio voice over	out to Randy
7.50	0:00:15	0:11:10 to 0:11:25	LIVE		USA	MARTIN	INTRODUCES RAKOWSKI
						out to Harry on tape	
8.00	0:07:00	0:11:25 to 0:18:25		Lecture	Wed tape	RAKOWSKI	THE GROWING PROBLEM OF HEART FAILURE
				Spanish			. Defines CHF
							. Population aging
							. More heart failure
							. Very expensive
							. Sets the stage
8.00 AP	0:00:00	0:11:25 to 0:11:25		AP Lecture	Thur tape	YOSHIKAWA	THE GROWING PROBLEM OF HEART FAILURE
				Chinese			. As above
				Japanese		Out to Michael	
9.00	0:01:30	0:18:25 to 0:19:55	LIVE		USA	MARTIN with RAKOWSKI	DEVELOPS HARRY'S TALK
						takes us into panel	
9.50	0:05:00	0:19:55 to 0:24:55	LIVE			PANEL 1	THE HEALTH CARE CRISIS

Recall slides if asked

USA MARTIN
Euro MONAGHAN
AP FENELEY
out to Joe

. Introduces everybody
. We see them and they talk
. They set up what they will say about the problem
. We've already met Harry and Junichi

PART II: CLINICAL STATE OF HEART FAILURE

10.00	0:01:30	0:24:55 to 0:26:25	LIVE Transition None Tape locator Tape	COLOR KISSLO	TRANSITION and TO SYSTOLIC PATHOLOGY OUTLINE
			Joe turns to screen out to tape		
11.00	0:06:10	0:26:25 to 0:32:35	Pathology Tape Spanish Chinese Japanese	COLOR ADAMS/K.KISSLO	THE PATHOLOGY OF SYSTOLIC FAILURE . Examples of dilated CM . Second case talks about remodeling . Finally compares four apices ... hard to see trabeculation
			Mix taped and live Joe talks to screen Those trabeculations and thrombi at the apex are almost possible to differentiate ... how do we do that? Joe turns from screen	Intermix with live at end Out to Joe	11 sec
12.00	0:01:00	0:32:35 to 0:33:35	LIVE	COLOR KISSLO	David and Kitty showed you the role that remodeling plays Some people say those trabeculations at the apex are remodeling ... not only shape ... but thickness too.
14.00	0:00:15	0:33:35 to 0:33:50	LIVE	USA MARTIN COLOR KISSLO in AP	INTRODUCES INGELA INTRODUCES MICHAEL
15.00	0:07:00	0:33:50 to 0:40:50	Lecture Wed tape Spanish	SCHNITTGER	ECHO IN SYSTOLIC FAILURE . How to evaluate systole . Expand Element 8.00 . Talk about useful indices
15.00 AP	0:00:00	0:40:50 to 0:40:50	AP Lecture Thur tape Chinese Japanese	FENELEY Out to Michael	ECHO IN SYSTOLIC FAILURE . As above
16.00	0:01:15	0:40:50 to 0:42:05	LIVE	USA MARTIN with INGELA out to Joe COLOR KISSLO in AP AP with FENELEY out to self	DEVELOPS INGELA'S TALK DEVELOPS MICHAEL'S TALK
16.50	0:01:15	0:42:05 to 0:43:20	LIVE	COLOR KISSLO	INTRODUCES DIASTOLIC PATHOLOGY
			Joe turns to screen out to tape		
17.00	0:06:05	0:43:20 to 0:49:25	Tape Pathology Tape Spanish	ADAMS/K.KISSLO	THE PATHOLOGY OF DIASTOLIC FAILURE . LVH from hypertension

			Chinese Japanese				. LVH from HOCM and compare . Continuum to dilatation . LVH from AS, shows valve
			Mix taped and live			COLOR Joe talks to screen	Intermix with live at end Out to Joe
							You really made the point about how all this relates. Are you saying that all patients with systolic failure have diastolic failure? So the cycle just continues. LVH leads to pump failure OR you can enter with systolic failure alone.
						Joe turns from screen	15 sec
18.00	0:00:15	0:49:25 to 0:49:40	LIVE			COLOR KISSLO out to Randy	ACCEPTS OUT AND GOES DIRECTLY TO RANDY
19.00	0:00:15	0:49:40 to 0:49:55	LIVE Introduction			USA MARTIN out to Harry on tape	INTRODUCES RAKOWSKI
20.00	0:07:00	0:49:55 to 0:56:55	Lecture	Wed tape		Spanish Chinese Japanese	RAKOWSKI ECHO IN DIASTOLIC FAILURE . What is diastolic failure? . When does it occur? . How do you measure it?
21.00	0:01:00	0:56:55 to 0:57:55	LIVE Discussion			USA MARTIN with RAKOWSKI out to Mark	DEVELOPS HARRY'S TALK
22.00	0:00:15	0:57:55 to 0:58:10	LIVE Introduction			Euro MONAGHAN out to Luciano on tape	INTRODUCES AGATI
24.00	0:07:00	0:58:10 to 1:05:10	Lecture	Tue tape		Spanish Chinese Japanese	AGATI CONCEPTS OF REMODELING . Explain remodeling . Why is it important? . What part does it play in failure? . How do you measure it?
25.00	0:01:00	1:05:10 to 1:06:10	LIVE Discussion			Euro MONAGHAN with AGATI out to Joe	DEVELOPS LUCIANO'S TALK
26.00	0:00:15	1:06:10 to 1:06:25	LIVE			COLOR Joe turns to screen	KISSLO out to tape
27.00	0:06:00	1:06:25 to 1:12:25	Tape Lab patient	Tape		Spanish Chinese Japanese	ADAMS/STRUB PATIENT 1B: DILATED CARDIOMYOPATHY . Measure EDD & ESV from LAX 2D, not M-mode . Establish digital (3 yr old echo) . The use of gain for MR . Look at apical changes in this patient . Tips on reproducibility . Go to web or book No mix at end Out to Joe They continue on screen behind Joe
						D&K are moving, but no mix	

28.00 0:00:15 1:12:25 to 1:12:40 LIVE Discussion **COLOR** KISSLO TALKS TO DAVID AND KAREN, THEY JUST NOD AND SMILE
Joe talks to screen
Well, David and Karen (they linger on screen), I know you can't measure everything, but that's a start. Message I hear is reproducibility, whatever you measure. That 2D standard of LV diameter seems to avoid the problem of being diagonal across the ventricle as is so often the case
Joe turns from screen out to Randy

28.50 0:00:15 1:12:40 to 1:12:55 LIVE Introduction **USA** MARTIN INTRODUCES BOLLING
out to Steve on tape

29.00 0:08:00 1:12:55 to 1:20:55 Lecture Wed tape BOLLING ROLE OF SURGERY IN END STAGE FAILURE
 Spanish . What role does surgery play?
 Chinese . What is done?
 Japanese . Is it worth anything?
out to Randy

30.00 0:01:00 1:20:55 to 1:21:55 LIVE Discussion **USA** MARTIN with BOLLING DEVELOPS STEVE'S TALK
out to Joe

PART III: MEASURING HEART FAILURE BY ECHO

31.00 0:01:30 1:21:55 to 1:23:25 LIVE Transition **COLOR** KISSLO TRANSITION and TO QUIZ
 None Tape locator Tape Live studio voice over OUTLINE
Joe turns to screen out to David on tape

32.00 0:08:00 1:23:25 to 1:31:25 Tape Quz Tape ADAMS/STRUB CASE REVIEWS & QUIZ
 Spanish . Rapid fire questions
 Chinese . We can repeat the displays for you in Sydney
 Japanese . Pay attention and write things down
 No mix at end
 Out to Joe

33.00 0:01:00 1:31:25 to 1:32:25 LIVE **COLOR** KISSLO
out to Randy

34.00 0:07:00 1:32:25 to 1:39:25 LIVE Answer quiz **USA** MARTIN FACULTY RESPONDS TO QUIZ QUESTIONS AND TEACHES !
out to Mark
 . We can play back the echos in Sydney
 . Randy assigns a person, they answer and we move on

35.00 0:00:15 1:39:25 to 1:39:40 LIVE Discussion **Euro** MONAGHAN INTRODUCES VANOVERSCHELDE
out to Jean-Louis on tape

36.00 0:07:00 1:39:40 to 1:46:40 Lecture Tue tape VANOVERSCHELDE USEFUL ECHO INDICES OF HEART FAILURE
 Spanish . Which is best Make a list and pick.

#	Length	In	Out	Source	Type	Place	Person(s)	Title and comments
Chinese Japanese								
. Can you do it? . Is it reproducible								
out to Mark								
37.00	0:01:00	1:46:40	1:47:40	LIVE Transition	Euro		MONAGHAN with VANOVERSCHELDE out to Joe	DEVELOPS JEAN-LOUIS TALK . This is the meat of echo number crunchers
38.00	0:01:00	1:47:40	1:48:40		COLOR		KISSLO	
Panel on Clinical State and Measures of Heart Failure								
40.00	0:12:00	1:48:40	2:00:40	LIVE			PANEL 3 MARTIN FENELEY out to Joe	IS ECHO BETTER THAN SYMPTOMS? . Brings in as many as possible . Move quickly, lots of question by now JUST WHAT IS THIS FACULTY GOING TO RECOMMEND WE CAN'T DO EVERYTHING GET SOME CONSENSUS YOU ARE WRITING A WHITE PAPER IN THIS SEGMENT . Note we pick up this panel right after the break
Recall slides if asked								
USA Euro AP								
44.00	0:00:15	2:00:40	2:00:55	LIVE Transition	COLOR		KISSLO out to tape	BE BACK IN 30 mins
50.00	0:00:15	2:00:55	2:01:10	Tape Trailer	Tape	TAPE		TAPE TO BREAK
BREAK								
50.10	0:30:00	2:01:10	2:31:10	Still stores	BREAK	BREAK	BREAK	30 MINUTE BREAK
BREAK								
51.00	0:00:45	2:31:10	2:31:55	Tape From break	Tape	TAPE		TAPE FROM BREAK
Welcome back and continue Clinical State and Measurement Panel								
52.00	0:00:30	2:31:55	2:32:25	LIVE Transition	COLOR		KISSLO	WELCOME BACK AND WHERE ARE WE?

53.00 0:05:00 2:32:25 to 2:37:25 LIVE PANEL 3 PANEL DISCUSSION 3 CLEANING UP LEFTOVER QUESTIONS
Recall slides if asked USA MARTIN . Brings in as many as possible
Euro MONAGHAN . Move quickly, lots of question by now
AP FENELEY
out to Joe

PART IV: ALTERING OUTCOME of HEART FAILURE

54.00 0:01:30 2:37:25 to 2:38:55 LIVE Transition COLOR KISSLO TRANSITION
None Tape locator Tape Live studio voice over OUTLINE
out to Randy

55.00 0:00:15 2:38:55 to 2:39:10 LIVE Introduction USA MARTIN INTRODUCES SCHNITTGER
out to tape

56.00 0:07:00 2:39:10 to 2:46:10 Lecture Wed tape SCHNITTGER FOLLOWING FAILURE OVER TIME
Spanish
Chinese
Japanese

57.00 0:01:00 2:46:10 to 2:47:10 LIVE USA MARTIN

58.00 0:00:15 2:47:10 to 2:47:25 LIVE Introduction COLOR KISSLO INTRODUCES ADAMS/STRUB & CASE
Joe turns to screen out to tape

59.00 0:07:15 2:47:25 to 2:54:40 Tape Lab patient Tape ADAMS/STRUB PATIENT 2: HOCM
Spanish . Serial studies mandatory
Chinese
Japanese COLOR Intermix with live at end
Mix taped and live Joe talks to screen Out to Joe

Karen, I notice you carefully obtained all mitral and pulmonary vein for diastolic indices. So many people just do the mitral

NEED TIME

59.10 0:01:00 2:54:40 to 2:55:40 LIVE Introduction COLOR KISSLO INTRODUCES VELAZQUEZ
Joe turns from screen out to tape

59.20 0:06:15 2:55:40 to 3:01:55 Interview Tape VELAZQUEZ MAJOR CLINICAL HEART FAILURE TRIALS
Spanish . Serial studies mandatory
Chinese
Japanese

60.00	0:01:00	3:01:55 to 3:02:55	LIVE Introduction	COLOR	KISSLO	INTRODUCES ADAMS/STRUB & CASE
				Joe turns to screen	out to tape	
62.00	0:06:45	3:02:55 to 3:09:40	Tape Lab patient	Tape	ADAMS/STRUB	PATIENT 3: FOLLOW-UP OF ISCHEMIA
			Spanish			THE PATIENT TALKS
			Chinese			. Repetitive episodes
			Japanese			. Serial studies,
			Mix taped and live	COLOR	Intermix with live at end	
			Joe asks ... So what's the bottom line for the patient here David?	Joe talks to screen	Out to Joe	
			Joe turns from screen			NEED TIME
63.00	0:00:15	3:09:40 to 3:09:55	LIVE introduction	COLOR	KISSLO	INTRODUCES MONAGHAN
					out to tape	
65.00	0:07:00	3:09:55 to 3:16:55	Lecture	Tue tape	MONAGHAN	UPDATE IN CONTRAST ECHO
			Spanish			. Mark updates all
			Chinese			. Sets stage for Luciano
			Japanese			
66.00	0:01:00	3:16:55 to 3:17:55	LIVE Discussion	COLOR	KISSLO	DEVELOPS MARK'S TALK
					MONAGHAN	
66.50	0:00:15	3:17:55 to 3:18:10	LIVE Introduction	Euro	MONAGHAN	INTRODUCES LUCIANO
					out to Luciano on tape	
67.00	0:07:00	3:18:10 to 3:25:10	Lecture	Tue tape	AGATI	PRACTICAL CLINICAL ROLE FOR CONTRAST PERFUSION
			Spanish			. Luciano gets everyday practical
			Chinese			
			Japanese			
68.00	0:01:15	3:25:10 to 3:26:25	LIVE	Euro	MONAGHAN	DEVELOPS LUCIANO'S TALK
					out to VANOVERSCHELDE!	INTRODUCES JEAN-LOUIS
70.00	0:07:00	3:26:25 to 3:33:25	Lecture	Tue tape	VANOVERSCHELDE	PRACTICAL CLINICAL ROLE FOR DTI IN HEART FAILURE
			Spanish			. Explains the concept of DTI
					Out to Mark	. Discusses how used in failure
						. Comments on its practical use
70.00 AP	0:00:00	3:33:25 to 3:33:25	AP Lecture	Thur tape	LI	DTI IN HEART FAILURE
			Chinese			. As above
			Japanese			
					Out to Michael	

70.50 0:01:00 3:33:25 to 3:34:25 LIVE Euro MONAGHAN with VANOVERSCHELDE
 Out to Joe DEVELOPS JEAN-LOUIS' TALK

PART V: NEW THERAPIES AND WHAT IS NEXT FOR ECHO

71.00 0:01:30 3:34:25 to 3:35:55 LIVE Transition COLOR KISSLO TRANSITION and TO ADVANCES IN ECHO
 None Tape locator Tape Live studio voice over OUTLINE
 out to tape

71.50 0:08:00 3:35:55 to 3:43:55 Tape Report Tape KISSLO WHERE ARE THE TECHNICAL ADVANCES
 Spanish . We need to ID patients: Hand held will grow
 Chinese . We need to follow: Digital is now standard of care
 Japanese . New descriptors are coming: Real-time 3D
 Everything is changing
 out to Joe

72.00 0:00:15 3:43:55 to 3:44:10 LIVE Introduction COLOR KISSLO
 Out to Randy; Michael AP

72.50 0:03:30 3:44:10 to 3:47:40 LIVE Introduction USA MARTIN INTRODUCES HARRY
 Out to Harry on tape

73.00 0:07:00 3:47:40 to 3:54:40 Lecture Wed tape RAKOWSKI NEW MEDICAL STRATEGIES
 Spanish . What's new
 Chinese . What's the data
 Japanese . Why should it work

74.00 0:01:15 3:54:40 to 3:55:55 LIVE Introduction USA MARTIN DEVELOPS HARRY'S TALK
 Out to Steve on tape INTRODUCES STEVE

75.00 0:08:00 3:55:55 to 4:03:55 Lecture Wed tape BOLLING NEW SURGICAL STRATEGIES
 Spanish . All sorts of steps
 Chinese . Summarizes all the new surgical approaches
 Japanese . Most of this is new to our audience

75.50 0:01:00 4:03:55 to 4:04:55 LIVE Discussion USA MARTIN RANDY DISCUSSES WITH STEVE
 BOLLING
 out to Joe

76.00 0:01:30 4:04:55 to 4:06:25 LIVE ANALYSIS COLOR KISSLO TRANSITIONS TO PANEL
 out to Randy

Panel of the whole program; but emphasize Second Half

76.00	0:18:00	4:06:25 to 4:24:25	LIVE PANEL 4 Recall slides if asked	USA Euro AP	PANEL DISCUSSION 4 MARTIN MONAGHAN FENELEY out to Joe	ECHO IN MANAGEMENT . Brings in as many as possible . Move quickly, lots of question by now
			Recall slides if asked		Splits ad lib	
					Involve all MARTIN leads FENELEY leads AP	

Program close

77.00	0:02:00	4:24:25 to 4:26:25	Live Color panel Joe turns to screen	COLOR	KISSLO out to tape	THANK YOU FACULTY/COMPANIES
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77.10	0:01:00	4:26:25 to 4:27:25	Live Tape Spanish Chinese Japanese	Tape	MICKELSON	PHILIPS GLAD TO BE A PART OF THIS . Tim Mickelson sends a message
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77.20	0:01:00	4:27:25 to 4:28:25	Live Color panel Joe turns from screen	COLOR	KISSLO out to tape	GOODBYE
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80.00	0:00:30	4:28:25 to 4:28:55	None Program trailer	Tape	TAPE	TAPE PROGRAM TRAILER
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	0:00:00	4:28:55	OUT	OUT	OUT	OUT
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4:28:55 TOTAL PROGRAM LENGTH

4:30:00 Total needed with hard out formatted at 4:29:30 THESE TIMES ARE PROBLEMATIC GIVEN LAST MINUTE CHANGE