



Serial A-ECG Report For:

In-hospital NICM case

Requested Number of A-ECGs within serial Report:	5
Requested Reports for Full-Disclosure (5-min) A-ECGs:	0
Requested Reports for Snapshot (10-sec) A-ECGs:	5
SpaceEKG showing results of serial files requested?	Yes
Number of 12-lead ECG Data Files Received (total):	5
Received Full-Disclosure (5-min) 12-lead ECG Data Files:	0
Received Snapshot (10-sec) 12-lead ECG Data Files:	5
Number of 12-lead ECG Data Files Analyzed (total):	5
Data Files Analyzed for Full-Disclosure (5-min) A-ECG:	0
Data Files Analyzed for Snapshot (10-sec) A-ECG:	5

Requestor:

Hospital Physician

ECG Research Consultant:

T. T. Schlegel

Disclaimer: Advanced ECG (A-ECG) Reports contain results from state-of-the-art research tests that apply advanced software algorithms to pre-existing 12-lead ECG data. The Reports are currently produced remotely by one or more ECG research experts located in Switzerland. The Reports should not be used for the treatment, cure, prevention or diagnosis of any medical condition. Although A-ECG results are generated completely noninvasively, their specific combination of software-based analyses has not been reviewed by your home country's medical regulatory agency. Therefore no claims are put forward with respect to the Reports' or the results' clinical accuracy. A-ECG Reports and results should never be substituted for the care of a locally licensed physician.

QUALITATIVE SUMMARIES OF SERIAL CONVENTIONAL ECG AND A-ECG RESULTS

Conventional 12-lead ECG results

File #	AGE	Sex	Date/Time of ECG	QUALITATIVE SUMMARY
	(yrs)			
1	43	Male	(05-02-2013 12.06)	Sinus tachycardia, PVCs, prolonged Pd (=142), QRS (=118) & QTc (=499)
2	43	Male	(05-03-2013 05.35)	NSR (HR=99), PVCs, prolonged Pd (=152), QRS (=118) & QTc (=513)
3	43	Male	(05-04-2013 11.06)	NSR (HR=87), prolonged Pd (=140), QRS (=114) & QTc (=491)
4	43	Male	(05-11-2013 06.20)	NSR (HR=69), prolonged Pd (=140), QRS (=126) & QTc (=470)
5	43	Male	(05-11-2013 06.22)	NSR (HR=72), prolonged Pd (=128), QRS (=124) & QTc (=478)

*Note: The first four of the above conventional 12-lead ECGs also show, or nearly show, Cornell voltage criteria for the presence of electrocardiographic LVH.

Advanced ECG: individual parameter results



A-ECG parameters focused on left ventricular systolic dysfunction (LVSD):

File #	AGE	Sex	Date/Time of ECG	Qualitative Assessment	Spatial QRS-T Angle (degrees) (Normal is <76 in an adult male)	Z-lead QRS Integral (mV*s) (Normal is <0.011 in an adult male)
	(yrs)					
1	43	Male	(05-02-2013 12.06)	Abnormal	132.839	0.0278
2	43	Male	(05-03-2013 05.35)	Abnormal but improving	120.407	0.0272
3	43	Male	(05-04-2013 11.06)	Abnormal but improving	106.664	0.0256
4	43	Male	(05-11-2013 06.20)	Abnormal but improving	77.712	0.0233
5	43	Male	(05-11-2013 06.22)	Abnormal but stable	76.389	0.0231

Notes:

See subsequent pages for formal A-ECG score results



Logistic score for "Disease" (10-sec 12-lead ECG)

File#	Age	Sex	Logistic score for "Disease" (10-sec 12-lead ECG)	Probability of Healthy	Probability of Disease	10-sec A-ECG Call	Date/Time of Collection
1	43	Male	20.92	0.00	1.00	Disease	(05-02-2013 12.06)
2	43	Male	18.04	0.00	1.00	Disease	(05-03-2013 05.35)
3	43	Male	14.46	0.00	1.00	Disease	(05-04-2013 11.06)
4	43	Male	7.34	0.00	1.00	Disease	(05-11-2013 06.20)
5	43	Male	3.81	0.02	0.98	Disease	(05-11-2013 06.22)



Logistic score for "LVSD" (10-sec 12-lead ECG)

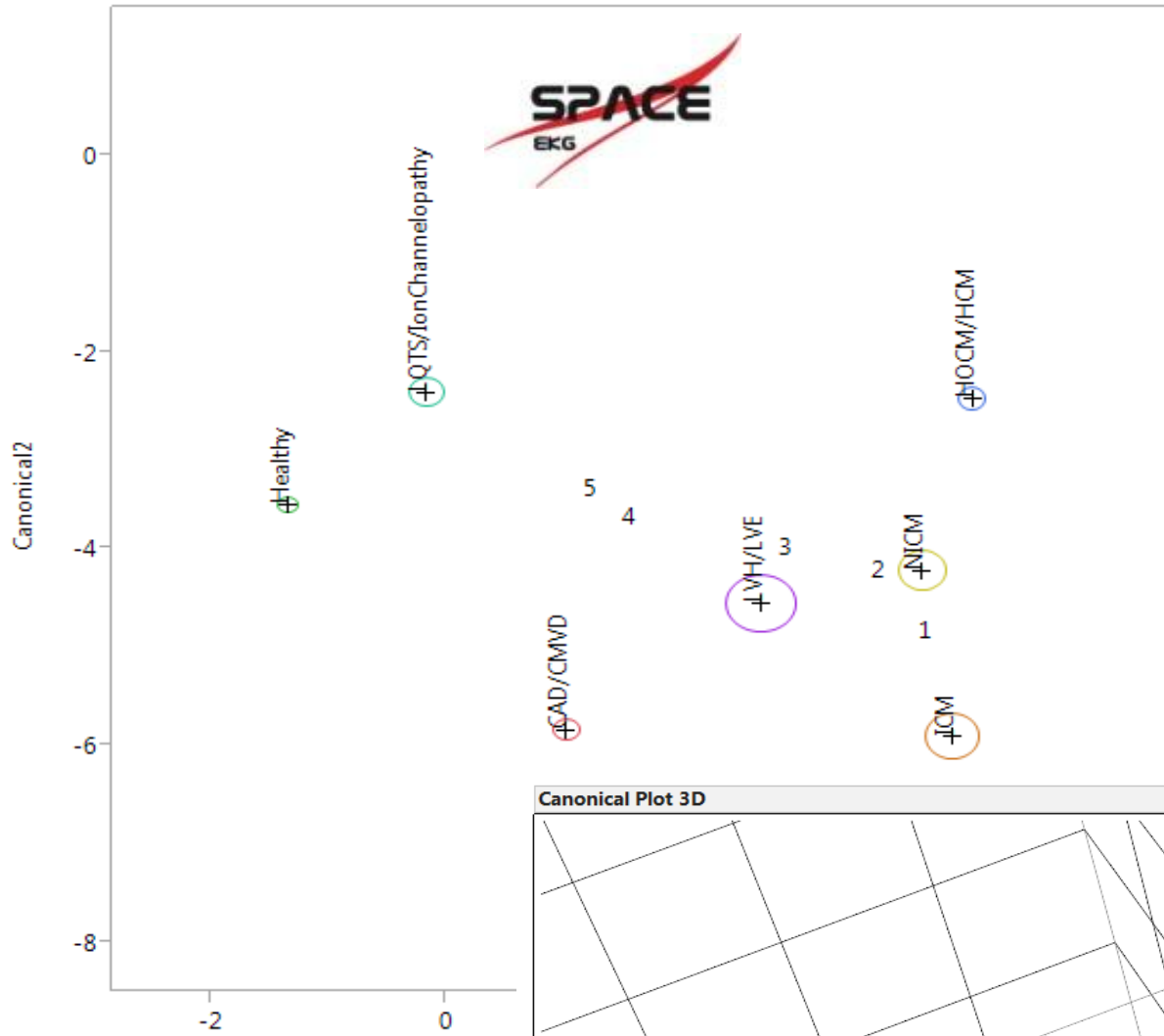
File#	Age	Sex	Logistic score for "LVSD" (10-sec 12-lead ECG)	Probability of LVSD	Probability of no LVSD	10-sec A-ECG call	Date/Time of Collection
1	43	Male	-2.40	0.92	0.08	LVSD	(05-02-2013 12.06)
2	43	Male	-1.91	0.87	0.13	LVSD	(05-03-2013 05.35)
3	43	Male	-0.61	0.65	0.35	LVSD	(05-04-2013 11.06)
4	43	Male	-0.99	0.73	0.27	LVSD	(05-11-2013 06.20)
5	43	Male	-0.97	0.73	0.27	LVSD	(05-11-2013 06.22)



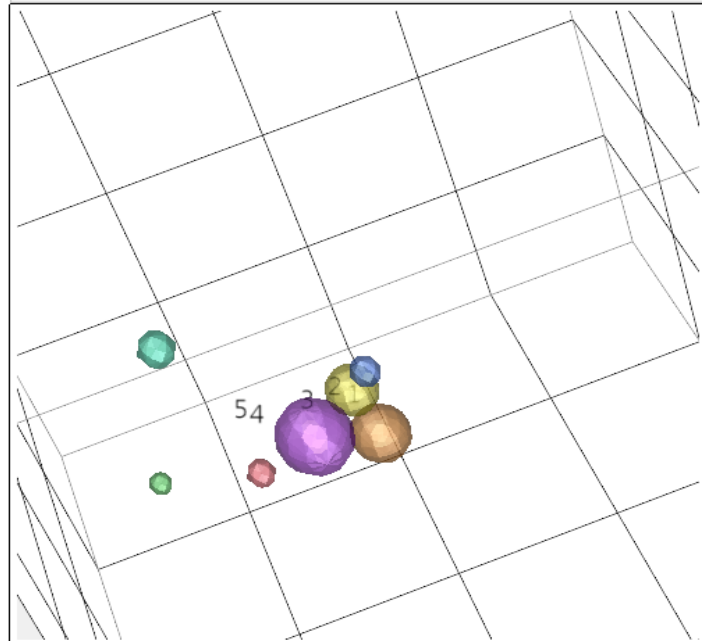
Number on SpaceEKG (on next page, if requested)

File#	Age	Sex	Number on SpaceEKG (on next page, if requested)	SpaceEKG Main Call	Call Probability	SpaceEKG Other Call	Date/Time of Collection
1	43	Male	1	NICM	0.99		(05-02-2013 12.06)
2	43	Male	2	NICM	0.99		(05-03-2013 05.35)
3	43	Male	3	NICM	0.74	LVER (LVH/LVE) 0.23	(05-04-2013 11.06)
4	43	Male	4	NICM	0.76	CAD/CMVD 0.16	(05-11-2013 06.20)
5	43	Male	5	NICM	0.59	CAD/CMVD 0.14 Healthy 0.14	(05-11-2013 06.22)

Canonical Plot



Canonical Plot 3D



Note: 3D view also provided to further illustrate the serial results.



Impression/Summary

The main A-ECG scoring results are positive for "Disease" on all five serial files;
The LVSD-related A-ECG scoring results also suggest the presence of LVSD (LVEF<50%) on all five serial files, and;
The SpaceEKG results suggest that non-ischemic cardiomyopathy (NICM) is the most likely cause for LVSD.

However:

There is serial improvement in the A-ECG Disease Score from file 1 through file 5.

There is also serial improvement in both the spatial mean QRS-T angle, and the Z-lead QRS integral, from file 1 through file 5, corresponding to a general serial improvement in A-ECG LVSD score as well.

Moreover, serial results on the SpaceEKG plot also suggest sequential serial improvement. Specifically, the initial (admission) result is clearly within the NICM sphere, but then the subsequent serial results progressively improve, moving first toward the patient's presumptive basal (less medically severe) "LVH" condition (noting also the positive Cornell voltage criteria on his first four ECGs), and then ultimately slightly further toward the "Healthy" sphere.

Overall results thus suggest serial improvement in this patient's LVSD, presumably due to medical therapy.