



**A-ECG Group Report For:** The GlobeRunners (Professional Athletics Team)

<b>Requested Number of A-ECG Reports within Group Report:</b>	<b>7</b>
Requested Reports for Full-Disclosure (5-min) A-ECGs:	5
Requested Reports for Snapshot (10-sec) A-ECGs:	2
Requested Reports for A-ECG Heart Age Scores:	5
Whole-group SpaceEKG requested?	Yes
<b>Number of 12-lead ECG Data Files Received (total):</b>	<b>7</b>
Received Full-Disclosure (5-min) 12-lead ECG Data Files:	5
Received Snapshot (10-sec) 12-lead ECG Data Files:	2
<b>Number of 12-lead ECG Data Files Analyzed (total):</b>	<b>7</b>
Data Files Analyzed for Full-Disclosure (5-min) A-ECG:	5
Data Files Analyzed for Snapshot (10-sec) A-ECG:	2 (+5 gratis, from full-disclosure ECGs)

Requestor: Team Physician, The GlobeRunners  
ECG Research Consultant: T. T. Schlegel

NOTE TO RESEARCHERS, CLINICIANS AND PATIENTS: 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 CONVENTIONAL ECG AND A-ECG RESULTS

## Conventional 12-lead ECG results

NAME	AGE	Sex	Date/Time of ECG (yrs)	QUALITATIVE SUMMARY
Athlete 1	32	Male	(07-03-2014 14.50)	Normal sinus rhythm, rightward axis, QRS=110 ms, QTc=454 ms
Athlete 2	34	Male	(07-02-2014 13.47)	Sinus bradycardia, otherwise normal ECG
Athlete 3	30	Male	(07-03-2014 17.42)	Normal sinus rhythm; high Sokolow-Lyon voltage (>> 4 mV)
Athlete 4	28	Male	(07-03-2014 16.15)	Respiratory sinus arrhythmia, otherwise normal ECG
Athlete 5	25	Male	(07-02-2014 18.25)	Normal sinus rhythm, normal ECG
Athlete 6	28	Male	(07-02-2014 19.37)	Normal sinus rhythm, normal ECG
Athlete 7	31	Male	(07-03-2014 13.22)	Normal sinus rhythm, ST segment elevation present in several leads

## Advanced ECG results



### QUALITATIVE SUMMARIES:

				3D ECG	Waveform Complexity	QTV	HRV
Athlete 1	32	Male	(07-03-2014 14.50)	Normal	Normal	Normal	Normal
Athlete 2	34	Male	(07-02-2014 13.47)	Normal	Normal	Normal	Normal
Athlete 3	30	Male	(07-03-2014 17.42)	Normal	Normal	Normal	Normal
Athlete 4	28	Male	(07-03-2014 16.15)	Normal	Normal	Normal	Normal
Athlete 5	25	Male	(07-02-2014 18.25)	Normal	Normal	Normal	Normal
Athlete 6	28	Male	(07-02-2014 19.37)	Normal	Normal	<b>NA</b>	<b>NA</b>
Athlete 7	31	Male	(07-03-2014 13.22)	Normal	Normal	<b>NA</b>	<b>NA</b>

### Notes:

**NA** = not analyzed or applicable (QTV and HRV analyses require a full-disclosure (5-min) 12-lead ECG recording)

**See subsequent pages for A-ECG score results**

### Additional comments on any abnormal or borderline A-ECG results above:

None (all A-ECG findings are within normal limits for all seven files).

### A-ECG scores of relevance not shown on the following page(s):

A-ECG logistic scoring in Athlete 3 specifically shows a <1% probability for LVH/LVE



**Logistic score for "Disease" (5-min 12-lead ECG)**

Name	Age	Sex	Logistic score for "Disease" (5-min 12-lead ECG)	Probability of Healthy	Probability of Disease	5-min A-ECG Call	Date/Time of Collection
Athlete 1	32	Male	-5.17	0.99	0.01	Healthy	(07-03-2014 14.50)
Athlete 2	34	Male	-5.20	0.99	0.01	Healthy	(07-02-2014 13.47)
Athlete 3	30	Male	-3.14	0.96	0.04	Healthy	(07-03-2014 17.42)
Athlete 4	28	Male	-4.17	0.98	0.02	Healthy	(07-03-2014 16.15)
Athlete 5	25	Male	-6.62	1.00	0.00	Healthy	(07-02-2014 18.25)
Athlete 6	28	Male	--	--	--	--	--
Athlete 7	31	Male	--	--	--	--	--



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

Name	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
Athlete 1	32	Male	-7.77	1.00	0.00	Healthy	(07-03-2014 14.50)
Athlete 2	34	Male	-4.29	0.99	0.01	Healthy	(07-02-2014 13.47)
Athlete 3	30	Male	-4.22	0.99	0.01	Healthy	(07-03-2014 17.42)
Athlete 4	28	Male	-4.43	0.99	0.01	Healthy	(07-03-2014 16.15)
Athlete 5	25	Male	-7.63	1.00	0.00	Healthy	(07-02-2014 18.25)
Athlete 6	The GI	Male	-4.52	0.99	0.01	Healthy	(07-02-2014 19.37)
Athlete 7	31	Male	-4.18	0.98	0.02	Healthy	(07-03-2014 13.22)



**A-ECG Heart Age Score, 5-min 12-lead ECG**

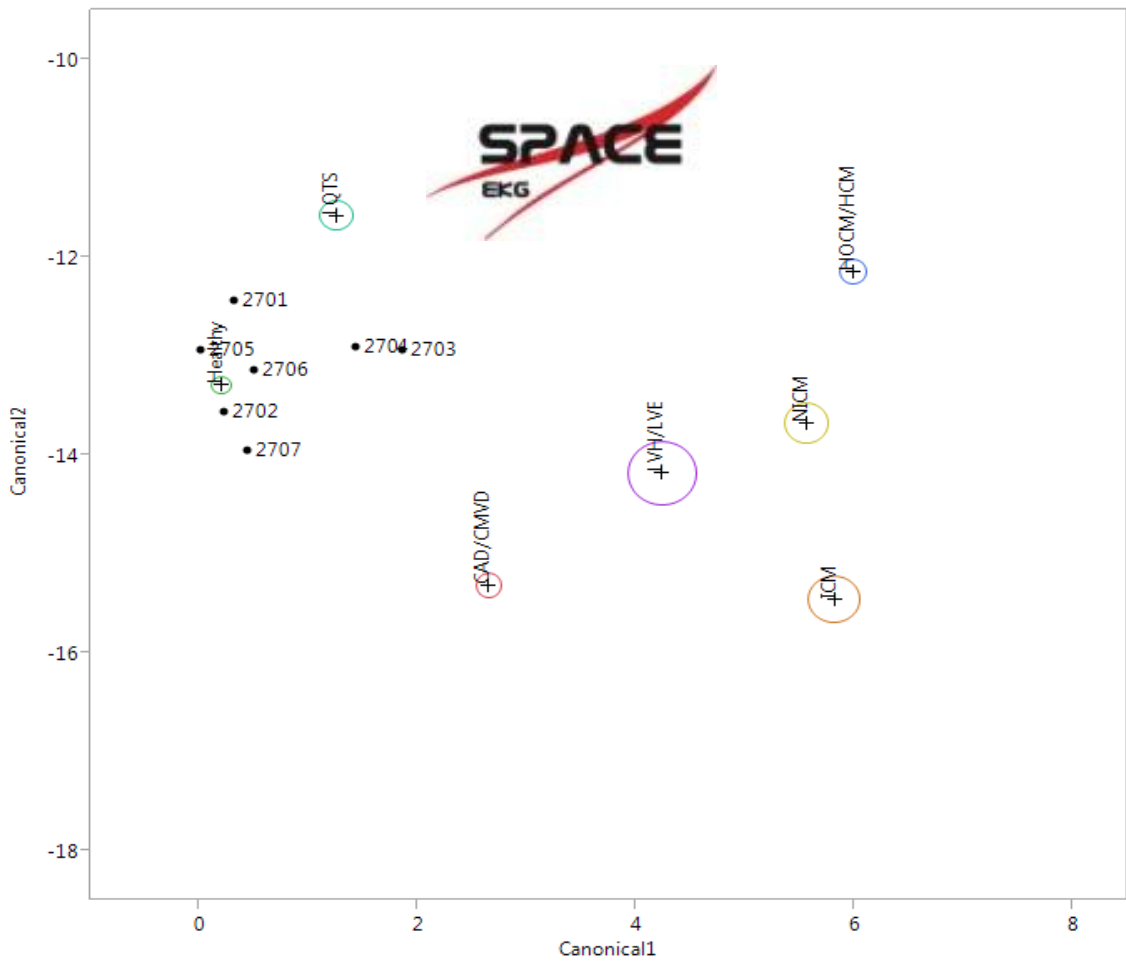
Name	Age	Sex	A-ECG Heart Age Score, 5-min 12-lead ECG	Body Age (Reported)	Difference (years)	A-ECG Heart Age compared to Body Age:	Date/Time of Collection
Athlete 1	32	Male	39.0	32.2	6.8	Older	(07-03-2014 14.50)
Athlete 2	34	Male	34.4	34.3	0.1	Same age	(07-02-2014 13.47)
Athlete 3	30	Male	30.3	30.6	-0.3	Same age	(07-03-2014 17.42)
Athlete 4	28	Male	23.5	28.5	-5.0	Younger	(07-03-2014 16.15)
Athlete 5	25	Male	22.4	25.8	-3.4	Younger	(07-02-2014 18.25)
Athlete 6	28	Male	--	--	--	--	--
Athlete 7	31	Male	--	--	--	--	--



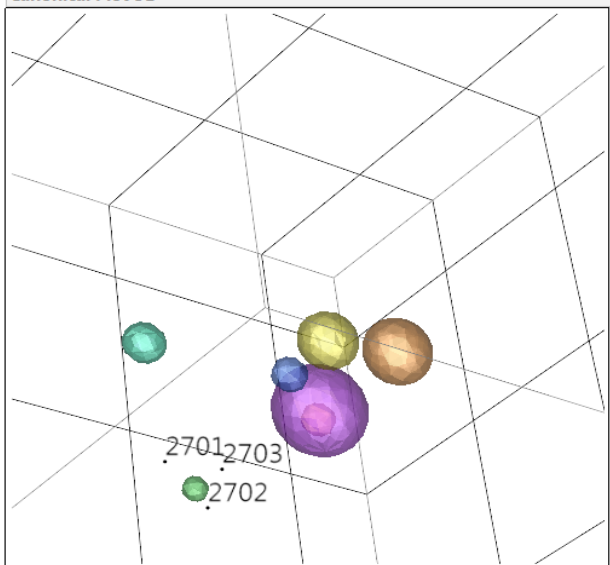
**Number on SpaceEKG below (if requested)**

Name	Age	Sex	Number on SpaceEKG below (if requested)	SpaceEKG Main Call	Call Probability	SpaceEKG Other Call	Date/Time of Collection
Athlete 1	32	Male	<b>2701</b>	Healthy	0.99	--	(07-03-2014 14.50)
Athlete 2	34	Male	<b>2702</b>	Healthy	1.00	--	(07-02-2014 13.47)
Athlete 3	30	Male	<b>2703</b>	Healthy	0.96	--	(07-03-2014 17.42)
Athlete 4	28	Male	<b>2704</b>	Healthy	0.99	--	(07-03-2014 16.15)
Athlete 5	25	Male	<b>2705</b>	Healthy	1.00	--	(07-02-2014 18.25)
Athlete 6	28	Male	<b>2706</b>	Healthy	0.99	--	(07-02-2014 19.37)
Athlete 7	31	Male	<b>2707</b>	Healthy	1.00	--	(07-03-2014 13.22)

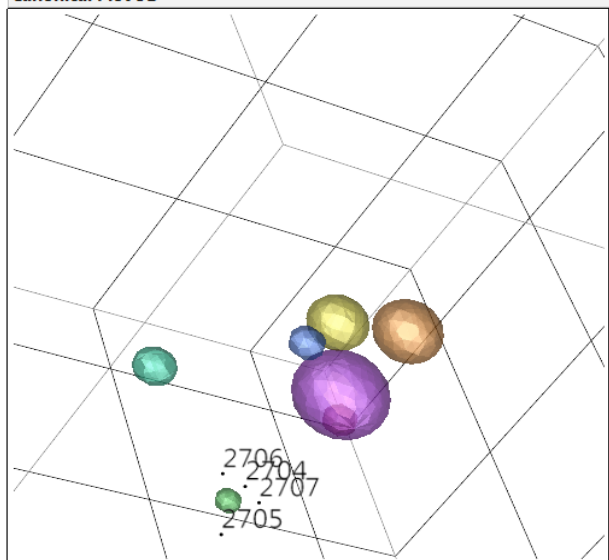
Canonical Plot



Canonical Plot 3D



Canonical Plot 3D



Note: 3D views also provided to better demonstrate that all results are most proximal to the "Healthy" sphere.



### **Impression/Summary**

The main A-ECG scoring results are normal (i.e., within the "Healthy" zone) for all 7 individuals.

#### ***Due their normal A-ECG results:***

Athlete 1 is unlikely to have clinically relevant cardiac pathology in spite of his prolonged QRS and QTc intervals.

Athlete 3 is unlikely to have pathological LVH or LVE, in spite of his abnormally high Sokolow-Lyon voltages.

Athlete 7 is unlikely to have a cause for his ST elevation beyond "benign" early repolarization.

#### ***Re: A-ECG Heart age scoring:***

Athlete 1 has a Heart Age by A-ECG that is higher than his stated chronological (body) age

Athletes 4 and 5 have Heart Ages by A-ECG that are lower than their stated chronological (body) ages

Athletes 2 and 3 have Heart Ages by A-ECG that are near their stated chronological (body) ages

A-ECG Heart Age scoring not performed for athletes 6 and 7 (their 12-lead ECGs being 10-sec snapshots only)