

# ARCS 2020 ECG and ABP

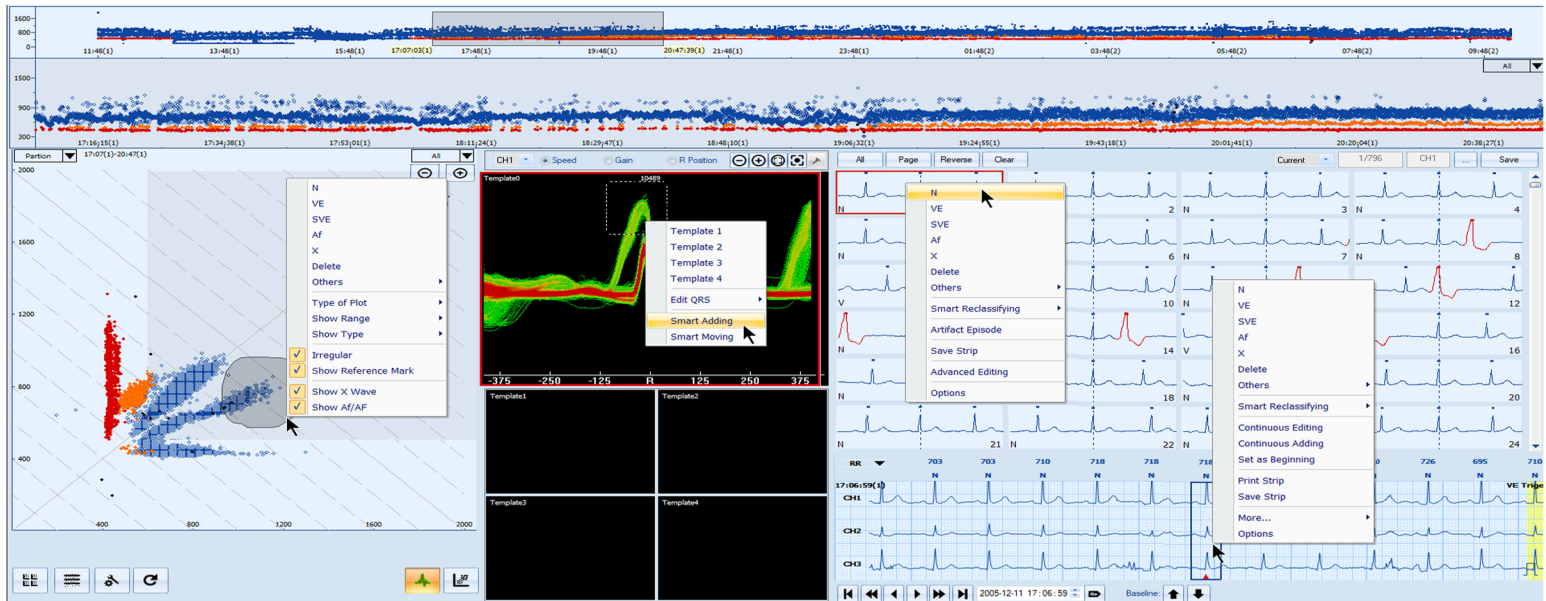
## Analysis, Reporting and Communication

ARCS Holter analysis software is utilized worldwide with consistent, high quality results. ARCS2020 introduces new, innovative features and performance improvements.

- Enhanced algorithms improve Afib & SVE detection by 35% & 15% respectively
- Ability to optimize ST segment analysis results
- New file formats; CDM, GARERA, plus BIOX, TZ, Datrix, MIT
- Advanced RR Lorenz plot
- New *Smart* editing tool, improved data management and messaging throughout

- Faster download for EFS & SCP data
- Holter monitoring up to 16 days
- Fast 30 second download and 15 second analysis for 24 hrs of ECG data
- Proprietary multi-channel analysis provides efficient, accurate beat classification
- Quick, accurate recognition of QRS complex at 99.7% against MIT database

### Innovative advanced RR plots empowers quick same-page editing



### Traditional template-based beat editing with an abundant selection of tools



The screenshot displays the HRV Analysis software interface. At the top, a blue bar shows the EPRF signal. Below it, a control bar includes a 'Setup' button, a 'Minutely Trend' plot, and a '24 hrs' time range selector. The main area is divided into several panels:

- RR Histogram:** A bar chart showing the distribution of RR intervals (ms) on the x-axis (0 to 1750) and frequency on the y-axis (log scale, 10 to 10000).
- RR Difference Histogram:** A bar chart showing the distribution of RR differences (ms) on the x-axis (0 to 1000) and frequency on the y-axis (log scale, 10 to 10000).
- Lorenz Plot:** A scatter plot showing the relationship between RR intervals (ms) on the x-axis (0 to 1250) and the y-axis (0 to 2000 ms).
- HRV Summary:** A table of HRV parameters for Hospital A, including Mean RR, SDNN, SDANN, and LF/HF.
- Spectrum:** A plot showing the power spectrum of the HRV signal, with frequency (Hz) on the x-axis and power on the y-axis.

The HRV Summary table for Hospital A is as follows:

Time	MEANRR	SDNN	SDANN	LF/HF
01-01-2012 01:00:00	674	100	100	1.0
01-01-2012 02:00:00	674	100	100	1.0
01-01-2012 03:00:00	674	100	100	1.0
01-01-2012 04:00:00	674	100	100	1.0
01-01-2012 05:00:00	674	100	100	1.0
01-01-2012 06:00:00	674	100	100	1.0
01-01-2012 07:00:00	674	100	100	1.0
01-01-2012 08:00:00	674	100	100	1.0
01-01-2012 09:00:00	674	100	100	1.0
01-01-2012 10:00:00	674	100	100	1.0
01-01-2012 11:00:00	674	100	100	1.0
01-01-2012 12:00:00	674	100	100	1.0
01-01-2012 13:00:00	674	100	100	1.0
01-01-2012 14:00:00	674	100	100	1.0
01-01-2012 15:00:00	674	100	100	1.0
01-01-2012 16:00:00	674	100	100	1.0
01-01-2012 17:00:00	674	100	100	1.0
01-01-2012 18:00:00	674	100	100	1.0
01-01-2012 19:00:00	674	100	100	1.0
01-01-2012 20:00:00	674	100	100	1.0
01-01-2012 21:00:00	674	100	100	1.0
01-01-2012 22:00:00	674	100	100	1.0
01-01-2012 23:00:00	674	100	100	1.0
01-01-2012 00:00:00	674	100	100	1.0
01-01-2012 01:00:00	674	100	100	1.0
01-01-2012 02:00:00	674	100	100	1.0
01-01-2012 03:00:00	674	100	100	1.0
01-01-2012 04:00:00	674	100	100	1.0
01-01-2012 05:00:00	674	100	100	1.0
01-01-2012 06:00:00	674	100	100	1.0
01-01-2012 07:00:00	674	100	100	1.0
01-01-2012 08:00:00	674	100	100	1.0
01-01-2012 09:00:00	674	100	100	1.0
01-01-2012 10:00:00	674	100	100	1.0
01-01-2012 11:00:00	674	100	100	1.0
01-01-2012 12:00:00	674	100	100	1.0
01-01-2012 13:00:00	674	100	100	1.0
01-01-2012 14:00:00	674	100	100	1.0
01-01-2012 15:00:00	674	100	100	1.0
01-01-2012 16:00:00	674	100	100	1.0
01-01-2012 17:00:00	674	100	100	1.0
01-01-2012 18:00:00	674	100	100	1.0
01-01-2012 19:00:00	674	100	100	1.0
01-01-2012 20:00:00	674	100	100	1.0
01-01-2012 21:00:00	674	100	100	1.0
01-01-2012 22:00:00	674	100	100	1.0
01-01-2012 23:00:00	674	100	100	1.0
01-01-2012 00:00:00	674	100	100	1.0
01-01-2012 01:00:00	674	100	100	1.0
01-01-2012 02:00:00	674	100	100	1.0
01-01-2012 03:00:00	674	100	100	1.0
01-01-2012 04:00:00	674	100	100	1.0
01-01-2012 05:00:00	674	100	100	1.0
01-01-2012 06:00:00	674	100	100	1.0

The screenshot displays the GE Healthcare ECG software interface. On the left, a list of detected arrhythmias includes: Single VEs, VE Run, VE Couplet, VE Bigeminy, VE Trigeminy, VE Quadrate, Single SVE, SVE Run, SVE Couplet, SVE Bigeminy, SVE Trigeminy, SVE Quadrate, Bradycardia, Tachycardia, Max. HR, Min. HR, Long RR, Atrial Fibrillation, Atrial Flutter, R on T, Artifact Episode, User Events, and Custom Events. The main display shows a 12-lead ECG with a heart rate monitor at the bottom. Overlaid on the ECG are several ECG reports from Hospital A, including a 12-lead ECG strip and a 3-lead standard strip. The interface includes various controls for analysis and navigation.

⏪ ⏴ ⏵ ⏩ 📄 🖨️ 🔍 Show All Measurements
📶 Show BP Pulse Wave 📶 Show ECG Wave ⌂

#	Time	SYS	DIA	MAP	PR	PP	Measurement Flag	Print Flag	Notes
1	15:36:39(C)	156	89	112	92	67			
2	15:51:34(C)	160	93	117	99	67			
3	16:06:34(C)	151	86	104	112	65			
4	16:21:34(C)	158	80	103	92	78			
5	17:06:38(C)	128	108	78	84	44			
6	17:21:41(C)	165	94	115	96	71			
7	17:36:36(C)	136	95	107	81	41			
8	17:51:39(C)	145	89	114	96	56			
9	18:06:36(C)	129	89	101	84	39			
10	18:21:39(C)	156	77	113	80	79			
11	18:36:40(C)	164	99	121	88	65			
12	18:51:36(C)	139	88	113	78	51			
13	19:06:39(C)	133	86	116	74	47			
14	19:21:35(C)	126	76	93	68	50			
15	19:37:42(C)	140	74	97	74	66			
16	19:52:53(C)	119	73	95	71	46			
17	20:06:38(C)	114	79	97	86	35			
18	20:36:36(C)	128	88	68	64	58			
19	21:06:36(C)	123	74	94	46	49			
20	21:36:40(C)	108	78	87	86	30			
21	22:06:44(C)	102	66	69	58	56			
22	22:36:38(C)	112	62	90	56	50			
23	23:06:40(C)	118	58	85	55	60			
24	23:36:36(C)	119	73	97	58	46			
25	00:06:36(C)	126	78	104	54	48			
26	00:36:39(C)	110	62	77	54	45			
27	01:06:35(C)	119	76	96	56	43			
28	01:36:41(C)	112	67	81	64	48			
29	02:06:39(C)	130	68	86	51	62			
30	02:36:37(C)	114	67	84	46	54			
31	03:06:37(C)	119	73	86	55	46			
32	03:36:37(C)	107	63	78	59	44			
33	04:06:37(C)	118	64	89	54	52			
34	04:36:47(C)	115	64	94	51	51			
35	05:06:37(C)	114	74	85	54	40			
36	05:36:37(C)	120	73	97	56	47			
37	06:06:35(C)	143	92	114	78	51			
38	06:36:36(C)	138	82	119	68	56			
39	07:06:36(C)	114	78	98	77	36			
40	07:36:36(C)	120	80	112	85	40			
41	08:06:40(C)	151	84	119	80	67			
42	08:21:38(C)	123	93	100	82	30			
43	08:36:41(C)	144	94	119	88	50			
44	08:51:38(C)	133	84	104	82	49			
45	09:06:38(C)	130	84	105	77	46			

**Measurement Intervals:**  
 Automatics: 67 times   
 Day: 15 min Night: 30 min   
 Manual: 0 times

**Duration:** 23:22:59   
 Successful: 67 times   
 Success Rate: 100.00%

**Total:** 67 times

The monitor displays a multi-lead ECG (I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6) and a BP trend graph. A summary report is overlaid, showing patient information (Patient: 117, Bed: 112), measurement parameters (Systolic: 156, Diastolic: 89, MAP: 112), and a list of measurements with flags. The report also includes a table of measurements and a summary of the measurement session.

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