

Manual 21 – ECG Patch Results Letter Templates

The following templates are for participant results letters. Physicians will receive a generic cover letter attached to the participant letter, which can be found in the Manual 2 Appendices. Descriptions/interpretations for the abnormal findings and alerts are included at the end of this document, after the letter templates.

Results letter template #1 – Letter to Participant No abnormal findings
[Date]
[Participant Name] [Address]
Dear [Mr./Ms. Participant Name]:
Thank you for taking part in the ARIC Study. We appreciate your willingness to join us in this important study.
The results of your Heart Patch Monitor examination were within the expected normal range for someone your age. We have attached a detailed report for your records. If you instructed us to send these results to your physician during the ARIC Study visit, we have done so.
Thank you again for being a member of the ARIC Study.
Sincerely,
<field center="" investigator="" principal=""> Lin Yee Chen, MD, MS</field>

Lin Yee Chen, MD, MS
ARIC Heart Patch Monitor Study
Principal Investigator
University of Minnesota

Enclosure

Results letter template #2 – Letter to Participant Abnormal findings present

[Date]	
[Participant Name] [Address]	
Dear [Mr./Mr. Participant Name]:	
Thank you for taking part in the ARIC Study. Important study.	We appreciate your willingness to join us in this
report shows some results that may be consi- instances, such results do not mean that a m	nination are detailed in the attached report. The dered outside of the normal range. In most edical problem exists. However, you may want mine whether the results should be studied further.
The findings are: [List below]	
	our physician during the ARIC Study visit, we have appropriate referral if you do not have a personal
Thank you again for being a member of the A	RIC Study.
Sincerely,	
<field center="" investigator="" principal=""></field>	Lin Yee Chen, MD, MS ARIC Heart Patch Monitor Study Principal Investigator University of Minnesota

Enclosure

Results letter template #3 – Letter to Participant Alerts present

[Date]	
[Participant Name] [Participant Address]	
Dear [Participant Name]:	
Thank you for taking part in the ARIC Study at out to join us in this important study.	ur Field Center. We appreciate your willingness
The results of your Heart Patch Monitor examina have identified some findings which are possibly should be reviewed by a physician to determine studied further.	abnormal. We believe that the enclosed report
The findings are:	
Because the ARIC Study does not provide any call relevant information to participants' usual sour consult your physician or usual source of medical highlighted for verification.	rces of medical care. We encourage you to
Thank you again for being a member of the ARIC	Study.
Sincerely,	
<field center="" investigator="" principal=""></field>	Lin Yee Chen, MD, MS ARIC Heart Patch Monitor Study Principal Investigator University of Minnesota
Enclosure	

Description of abnormal findings and alerts

Abnormality or alert	Description
Atrial fibrillation	This is an irregular heart rhythm. It may feel like palpitations or "racing heart beats". If you know that you have atrial fibrillation, please follow your physician's guidelines. Otherwise, please share these results with your physician.
Atrial flutter	This is a fast rhythm that originates from the upper chambers of the heart. It may feel like palpitations or "racing heart beats". If you know that you have atrial flutter, please follow your physician's guidelines. Otherwise, please share these results with your physician.
Supraventricular ectopy (SVE) / Premature atrial contractions (PACs) / Supraventricular bigeminy / Supraventricular trigeminy / Supraventricular couplets / Supraventricular triplets	These are heartbeats that come early and originate from the upper chambers of the heart. They may feel like palpitations or "skipping a beat".
Supraventricular tachycardia	This is a fast rhythm that originates from the upper chambers of the heart. It may feel like palpitations or "racing heart beats".
Ventricular ectopy (VE) / Premature ventricular contractions (PVCs) / Ventricular bigeminy / Ventricular trigeminy / Ventricular couplets / Ventricular triplets	These are heartbeats that come early and originate from the lower chambers of the heart. They may feel like palpitations or "skipping a beat".
Non-sustained ventricular tachycardia	This is a fast rhythm that originates from the lower chambers of the heart. It may feel like palpitations or "racing heart beats".
2 nd degree AV block, Mobitz I (AV Wenckebach)	This is an occasional slowing of heart rate due to a drop of a beat in the lower chambers.
Paced beats	These are heart beats that originate from a pacemaker device rather than your heart's own pacemaker.
Wide QRS tachycardia >120 bpm and sustained for >30 seconds (includes monomorphic ventricular tachycardia, polymorphic ventricular tachycardia, ventricular fibrillation)	This is a fast rhythm that originates from the lower chambers of the heart and may feel like palpitations or "racing heart beats". Please follow up with your healthcare provider as soon as possible.
Complete heart block	This is a slow heart beat due to an interruption in the electrical pathway in the heart. Please follow up with your healthcare provider as soon as possible.

Abnormality or alert	Description
2 nd degree AV Block, Mobitz II	This is a slow heart beat due to an interruption in the electrical pathway in the heart. Please follow up with your healthcare provider as soon as possible.
Pause >6 seconds	There was no heartbeat for 6 seconds or longer. Please follow up with your healthcare provider as soon as possible.
Bradycardia <40 bpm and sustained for >30 seconds	This is a slower than usual heart rate that lasted more than 30 seconds. Please follow up with your healthcare provider as soon as possible.
Atrial fibrillation/atrial flutter with average heart rate <40 bpm or >180 bpm and sustained for 60 seconds	This is an irregular heart rhythm. It may feel like palpitations or "racing heart beats". Please follow up with your healthcare provider as soon as possible.
Narrow QRS tachycardia >180bpm and sustained for 60 seconds	This is a fast rhythm that originates from the upper chambers of the heart. It may feel like palpitations or "racing heart beats". Please follow up with your healthcare provider.

Example iRhythm Abnormal Report – Ventricular Tachycardia, Atrial **Fibrillation and Pause**



Zio XT Final Report for

Report, Patient #16

Primary Indication (R94.31) 12/12/67 (51 yrs) Abnormal electrocardiogram

Prescribing Clinician Managing Location

Dr. E. Physician San Francisco

iRhythm Technologies Tel: (888) 693-2401 www.zioreports.com



Enrollment Period 13 days 19 hours 03/22/19, 05:24am to 04/05/19, 12:40am

Heart Rate Overall

Sinus

Pause(s)

Sinus

SVE(s)

VE(s)

Ectopics

Isolated

Couplet

Triplet

Isolated

Couplet

Triplet

Min

Avg

Max

Avg

Patient Events

Total Triggers: 2

13 days 19 hours (after artifact removed)

09:49am, 03/25

11:59pm, 03/22

11:14am, 03/24 50 bpm 11:59pm, 03/22

Trigger Diary

6723

141

1716

192

26

0 5

0 5

9

154 bpm

50 bpm

78 bpm

96 bpm

66 bpm

Findings within ± 45 sec of triggered events or diary entries:

Range 59-126 bpm

3.9 s

Supraventricular Ectopy (SVE/PACs)

Rare

Rare

Rare

Ventricular Ectopy (VE/PVCs)

Rare

Rare

Rare

Longest Ventricular Bigeminy Episode

Longest Ventricular Trigeminy Episode

56-73 bpm

Total Diaries: 1

<1.0%

< 1.0%

<1.0%

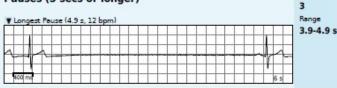
<1.0%

<1.0%

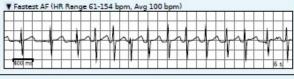
<1.0%

Ventricular Tachycardia (4 beats or more) ▼ Fastest VT (HR Range 135-150 bpm, Avg 142 bpm)	Episodes 5 HR Range
100 m	116-150 bpm Avg 132 bpm

Pauses (3 secs or longer)



Atrial Fibrillation



AV Block (2nd° Mobitz II, 3rd°)



Preliminary Findings

Supraventricular Tachycardia (4 beats or more)

Patient had a min HR of 50 bpm, max HR of 154 bpm, and avg HR of 78 bpm. Predominant underlying rhythm was Sinus Rhythm. 5 Ventricular Tachycardia runs

occurred, the run with the fastest interval lasting 4 beats with a max rate of 150

None found

AF Burden

1 d 19 h HR Range 50-154 bpm

97 bpm

37% Longest Duration

- Underlying Sinus rhythm with normal rates average =78/min
 5 runs of VT some of which could be AF with aberrancy
 Atrial fibrillation with 37% burden and longest run of 42 hours
- Pauses of up to 4.9 seconds likely post conversion related
 Triggered events consistent with AF, Pauses

Final Interpretation

1. Agree with above interpretation

bpm, the longest lasting 4 beats with an avg rate of 127 bpm. Episodes of opin, the longest leading 4 deads with an avg face of 127 opin. Episodes of Ventricular Tachycardia may be possible Atrial Fibrillation with aberrary. Atrial Fibrillation occurred (37% burden), ranging from 50-154 bpm (avg of 97 bpm), the

longest lasting 1 day 19 hours with an avg rate of 97 bpm. 3 Pauses occurred, the longest lasting 4.9 secs (12 bpm). Atrial Fibrillation and Pause were detected within +/- 45 seconds of symptomatic patient event(s). Isolated SVEs were rare (<1.0%, 6723), SVE Couplets were rare (<1.0%, 141), and SVE Triplets were rare (<1.0%, 9). Isolated VEs were rare (<1.0%, 1716), VE Couplets were rare (<1.0%, 192), and VE Triplets were rare (<1.0%, 26).

Electronically signed by Dr. Example Physician 04/12/19 06:18 PM (CT)

Example iRhythm Alert Report – Pause > 6 seconds

Zio XT Final Report for Report, Patient #16		iRhythm Technologies Tel: (888) 693-2401 www.zioreports.com
Date of Birth Patient ID Gender Female Primary Indication Pause > 6 second 12/12/67 (51 yrs) Managing Location San Francisco Female Pause > 6 second		Enrollment Period
Pauses (3 secs or longer) **Longest Pause (7.3 s, 8 bpm) **L	Episodes 1 Range 7.3-7.3 s Episodes 37 HR Range 63-203 bpm Avg 125 bpm	Heart Rate Overall Max 203 bpm 02:57pm, 10/22 Min 48 bpm 02:32am, 10/17 Avg 71 bpm Sinus Max 139 bpm 10:50am, 10/13 Min 48 bpm 02:32am, 10/17 Avg 71 bpm Patient Events Total Triggers: 2 Total Diaries: 0 Findings within ± 45 sec of triggered events or diary entries: Range Trigger Diaries: 0 Sinus 60-111 bpm ✓
AV Block (2nd° Mobitz II, 3rd°)		Ectopics
none touna		Ventricular Ectopy (VE/PVCs) Isolated Rare <1.0% Couplet Rare <1.0% Triplet 0
Atrial Fibrillation	None found	Longest Ventricular Bigeminy Episode 2.5 Longest Ventricular Trigeminy Episode 3 m 13
reliminary Findings	F1	pretation

Example BioTel Abnormal Report – Atrial Fibrillation, Premature Atrial Contractions, Premature Ventricular Contractions



Extended Holter Report (Tel) 877-593-6421 (Fax) 877-989-0700

Patient Name: Referring Physician:

Date of Birth: 00/00/0000 (Age: 00) Ordering Physician:

Gender: Male Rx Duration: 6 Days

Start Date: Diagnosis (ICD10):

Study Summary

 Duration
 5d 7h 21m

 Rhythm
 Sinus Rhythm

 Min HR
 40 bpm 15:51 10/24

 Avg HR
 81 bpm

 Max HR
 203 bpm 20:07 10/23

 Total Beats
 510,481

 Diary Entries
 0

 Pt. Triggers
 11

Pause Summary

Pause (≥2.0s) 10 Longest Pause 4.8s 11:30 10/27

AF Summary

AF Burden 30%
AF Events 9
AF HR Range 48 - 80 bpm
Longest AF 0d 13h 38m 2s

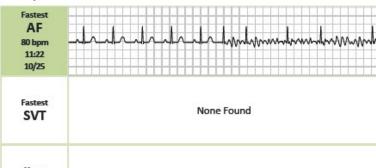
Supraventricular Summary

PACs 5,865 1.1% SVT (≥3 Beats) 0

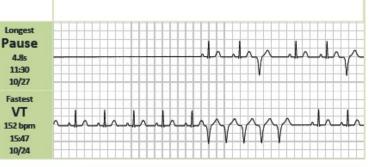
Ventricular Summary

PVCs 21,439 4.2% VT (≥3 Beats) 2

Arrhythmias



Block None Found



Preliminary Findings:

- Patient Monitored 4d 7h 21m
- Min HR 40, Avg. HR 81, Max HR 203
- Pause(s) ≥2.0s occurred 10 time(s) with the longest pause 4.8s at 11:30
- 10/27 AF occurred 9 time(s) with a HR range of 48 80; Total AF burden = 30%
- SVT did not occur during the monitoring period
- VT occurred 2 time(s) with the fastest run 152 bpm
- 5,865 PACs with PAC Burden of 1.1%
- 21,439 PVCs with PVC Burden of 4.2

Physician Comments:

Example BioTel Alert Report: Atrial Fibrillation with average heart rate >180bpm sustained for >60 seconds

Patient: Holter 14-Day Patient ID: - Date of Birth: 01/01/1980 (41 yrs.)

Patient: Holter 14-Day Holter Report

Patient Summary
Date of Birth

Date of Birth Sex 01/01/1980 (41 yrs.) Female

Patient ID Pacema

Primary Indication

Chest Pain, Unspecified Clinician Summary

Analysis by Institution

Report Summary

Recording Length 14d From 01/25/2021 Analysis Length
13d 22h 20min

To 02/08/2021

Date of Analysis 03/03/2021 Noise Burden 0.49%

Device ID

BioTel Heart Client Services: 877-593-6421 Fax: 877-989-0700 gobio.com

