

Addendum of the Arrhythmia Analysis Statement

This addendum is a statutory supplement to the Operator's Manual (see the printed document provided with the machine for specific PN, version, and release date). This addendum has the same legal effect as the original Operator's Manual.

The content of this addendum revises the descriptions related to Mindray arrhythmia analysis in the **Monitoring ECG** (or **Monitoring ECG, Arrhythmia, ST and QT**) section of the original Operator's Manual and takes effect as of 2026-08, with the corresponding content in the original Operator's Manual becoming invalid.

Please keep, consult, and implement this addendum together with the original Operator's Manual. No organization or individual may delete or modify the content of this addendum without the written permission of Mindray. If you have any questions, contact Mindray.

For this addendum, the issue date is 2026-08.

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1. BeneVision N Series Patient Monitor

Model: BeneVision N19/BeneVision N22/BeneVision N17/BeneVision N15/BeneVision N12

1. Revised Description - Arrhythmia Events

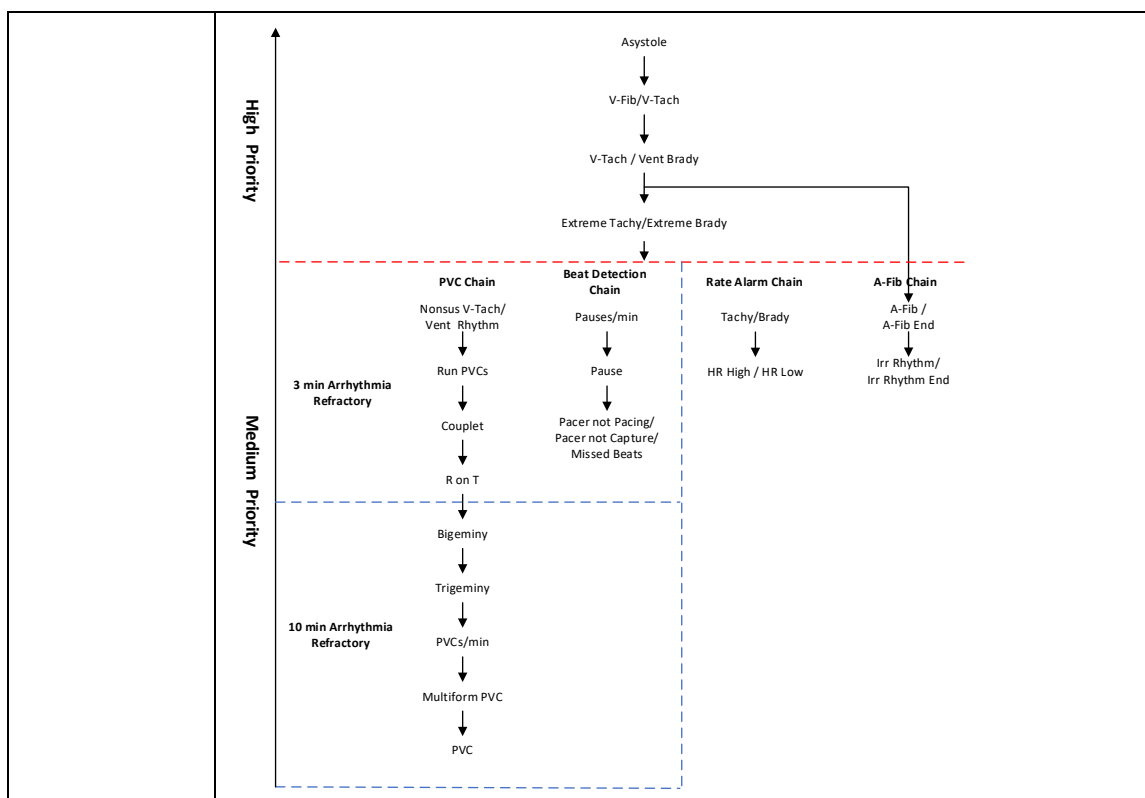
Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Revised Description - Setting Arrhythmia Refractory Periods

Section	Revised Description
Setting Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia and arrhythmias with lower priority in the same alarm chain can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. If the condition of an arrhythmia with lower priority in the same alarm chain appears, the monitor does not generate an alarm either. To set arrhythmia refractory periods, follow this procedure: - Access arrhythmia alarm setup by either of the following ways: - Select the ECG numeric area or waveform area to enter the ECG dialog → select the Arrhythmia tab. - Select the Alarm Setup quick key → select the Arrhythmia tab. - Select the Threshold tab. - Set Refractory Period 1 and Refractory Period 2. The default refractory period 1 is 3 minutes. The default refractory period 2 is 10 minutes. To disable a refractory period, set it to Off. See the figure of arrhythmia alarm chain in 9.6.5.1 Arrhythmia Alarm Chains for arrhythmias applying to Refractory Period 1 and Refractory Period 2. The monitor can connect to the parameter modules via the SMR to achieve parameter measurement functionality. When different versions of the parameter modules are used with the monitor, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Other possible manifestations of the arrhythmia refractory period are as follows: - No refractory period. - The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 7 arrhythmias: Couplet, R on T, Multiform PVC, PVC, Missed Beat, Pacer Not Capture, Pacer Not Pacing. - The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 8 arrhythmias: Couplet, R on T, PVCs/min, Multiform PVC, PVC, Missed Beat, Pacer Not Capture, Pacer Not Pacing. - The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 9 arrhythmias: Couplet, R on T, PVCs/min, Multiform PVC, PVC, Pause, Missed Beat, Pacer Not Capture, Pacer Not Pacing. - The refractory period is 3 minutes or 10 minutes, and not configurable. In this case, in the medium priority chain, an arrhythmia and arrhythmias with lower priority in the same alarm chain can be deactivated in a designated period of time. During the refractory period, the same alarm does not trigger again. If the condition of an arrhythmia with lower priority in the same alarm chain appears, the monitor does not generate an alarm either. The following figure of arrhythmia alarm chain shows the arrhythmias applying to 3 minutes and 10 minutes.



2. BeneVision N1 Patient Monitor

Model: BeneVision N1

1. Revised Description - Arrhythmia Events

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Revised Description - Setting Arrhythmia Refractory Periods

Section	Revised Description
Setting Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia and arrhythmias with lower priority in the same alarm chain can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. If the condition of an arrhythmia with lower priority in the same alarm chain appears, the monitor does not generate an alarm either. To set arrhythmia refractory periods, follow this procedure: - Access arrhythmia alarm setup by either of the following ways: - Select the ECG numeric area or waveform area to enter the ECG dialog → select the Arrhythmia tab. - Select the Alarm Setup quick key → select the Arrhythmia tab. - Select the Threshold tab. - Set Refractory Period 1 and Refractory Period 2. The default refractory period 1 is 3 minutes. The default refractory period 2 is 10 minutes. To disable a refractory period, set it to Off.

	See the figure of arrhythmia alarm chain in 7.6.5.1 Arrhythmia Alarm Chains for arrhythmias applying to Refractory Period 1 and Refractory Period 2. Due to version differences, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Other possible manifestations of the arrhythmia refractory period are as follows: ◆ The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 8 arrhythmias: Couplet, R on T, PVCs/min, Multiform PVC, PVC, Missed Beat, Pacer Not Capture, Pacer Not Pacing. ◆ The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 9 arrhythmias: Couplet, R on T, PVCs/min, Multiform PVC, PVC, Pause, Missed Beat, Pacer Not Capture, Pacer Not Pacing.
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3. ePM Series Patient Monitor

Model: ePM 15M/ePM 15MA/ePM 15MC/ePM 12M/ePM 12MA/ePM 12MC/ePM 10M/ePM 10MA/ePM 10MC/ePM 15/ePM 15A/ePM 15C/ePM 12/ePM 12A/ePM 12C/ePM 10/ePM 10A/ePM 10C

1. Revised Description - Arrhythmia Events

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 9 arrhythmias: ■ Couplet ■ R on T ■ PVCs/min ■ Multiform PVC ■ PVC ■ Pause ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing

4. BeneVision TM80 Telemetry Monitor

Model: BeneVision TM80

1. Revised Description - Arrhythmia Events

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
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Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.
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3. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 8 arrhythmias: ■ Couplet ■ R on T ■ PVCs/min ■ Multiform PVC ■ PVC ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing The monitor can connect to the CMS to achieve parameter measurement functionality. When different versions of the CMS are used with the monitor, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Another possible manifestation of the arrhythmia refractory period is as follows: ◆ The refractory period is 30 seconds, and not configurable. It is available for the following 9 arrhythmias: Couplet, R on T, PVCs/min, Multiform PVC, PVC, Pause, Missed Beat, Pacer Not Capture, Pacer Not Pacing.

5. TMS-6016/Panorama Telepack-608/TMS60 Telemetry Monitoring System

Model: TMS-6016/Panorama Telepack-608/TMS60

1. Revised Description - Arrhythmia Events

Applicable CMS system software: versions 03.01.00 and above

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.

2. Revised Description - Arrhythmia Events

Applicable CMS system software: versions 04.00.00.02 and above

Section	Revised Description
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

3. Additional Precautions – Changing Arrhythmia Alarm Settings

Applicable CMS system software: versions 03.01.00 and above

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

4. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 9 arrhythmias: ■ Couplet ■ R on T

	■ PVCs/min ■ Multiform PVC ■ PVC ■ Pause ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing The TMS-6016/Panorama Telepack-608/TMS60 can connect to the CMS to achieve parameter measurement functionality. When different versions of the CMS are used with the TMS-6016/Panorama Telepack-608/TMS60, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Other possible manifestations of the arrhythmia refractory period are as follows: ◆ No refractory period. ◆ The refractory period is 30 seconds, and not configurable. It is available for the following 7 arrhythmias: Couplet, R on T, Multiform PVC, PVC, Missed Beat, Pacer Not Capture, Pacer Not Pacing.
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6. BeneView T5/T6/T8 Patient Monitor

Model: BeneView T5/BeneView T6/BeneView T8

1. Revised Description - Arrhythmia Events-PVC

Applicable system software: versions 03.01.00 and above

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.

2. Revised Description - Arrhythmia Events – Pause

Applicable system software: versions 04.00.00 and above

Section	Revised Description
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.

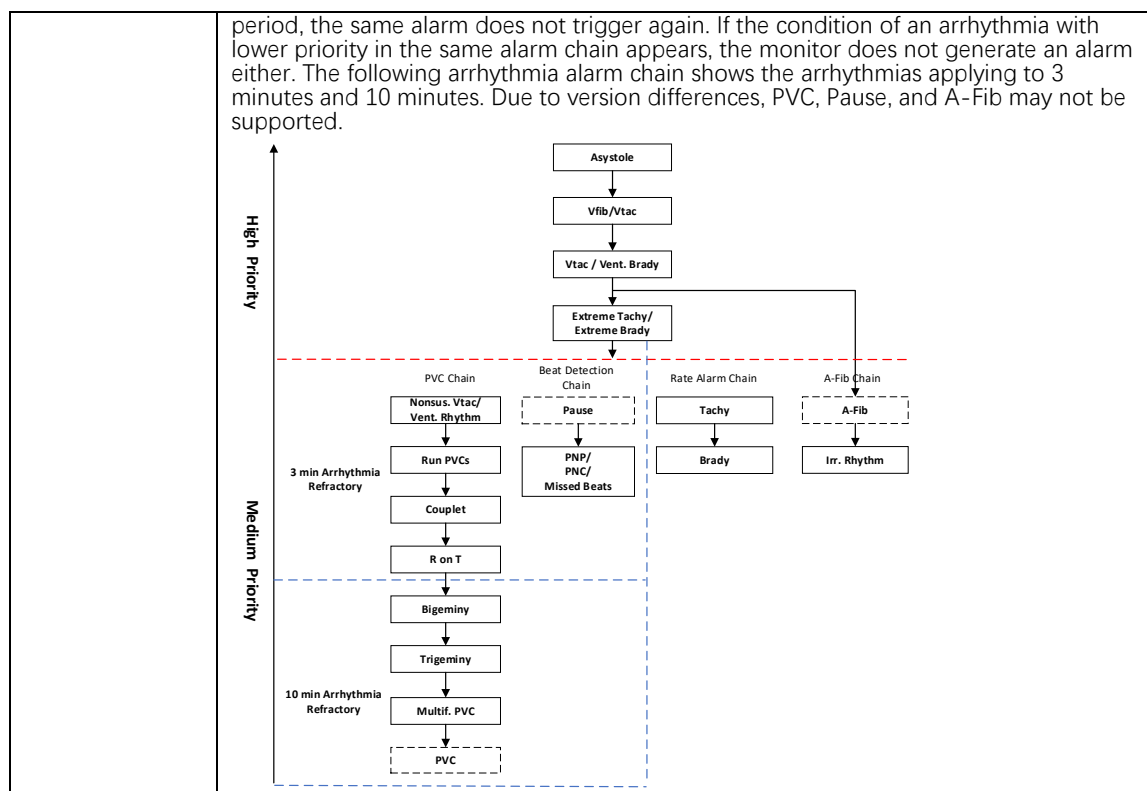
3. Additional Precautions – Changing Arrhythmia Alarm Settings

Applicable system software: versions 04.00.00 and above

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

4. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 7 arrhythmias: ■ Couplet ■ R on T ■ Multiform PVC ■ PVC ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing The monitor can connect to the parameter modules via the SMR to achieve parameter measurement functionality. When different versions of the parameter modules are used with the monitor, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Other possible manifestations of the arrhythmia refractory period are as follows: ◆ No refractory period. ◆ The refractory period is 30 seconds, and not configurable. During the refractory period, the same alarm does not trigger again. It is available for the following 8 arrhythmias: Couplet, R on T, Multiform PVC, PVC, Pause, Missed Beat, Pacer Not Capture, Pacer Not Pacing. ◆ The refractory period is 3 minutes or 10 minutes, and not configurable. In this case, in the medium priority chain, an arrhythmia and arrhythmias with lower priority in the same alarm chain can be deactivated in a designated period of time. During the refractory



7. Passport 17m/Passport 12m Patient Monitor

Model: Passport 17m/Passport 12m

1. Revised Description - Understanding the Arrhythmia Events

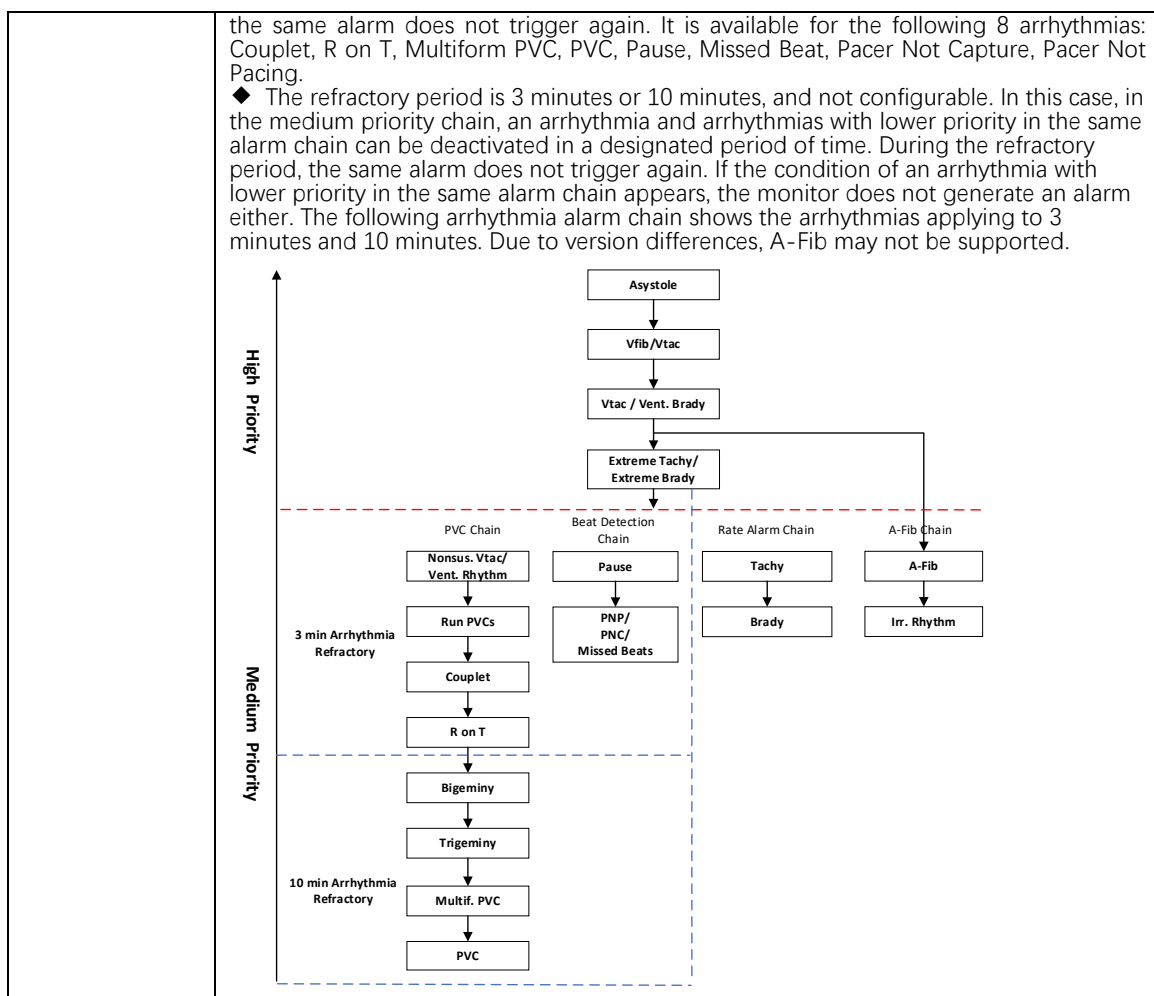
Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 7 arrhythmias: ■ Couplet ■ R on T ■ Multif. PVC ■ PVC ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing The monitor can connect to the parameter modules via the SMR to achieve parameter measurement functionality. When different versions of the parameter modules are used with the monitor, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Other possible manifestations of the arrhythmia refractory period are as follows: ◆ No refractory period. ◆ The refractory period is 30 seconds, and not configurable. During the refractory period,



8. T1 Patient Monitor

Model: T1

1. Revised Description - Understanding the Arrhythmia Events

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 7 arrhythmias: ■ Couplet ■ R on T ■ Multiform PVC ■ PVC ■ Missed Beat

	■ Pacer Not Capture ■ Pacer Not Pacing Due to version differences, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Another possible manifestation of the arrhythmia refractory period is as follows: ◆ No refractory period.
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9. Passport 8/Passport 12/cPM 8/cPM 12 Patient Monitor

Model: Passport 8/Passport 12/cPM 8/cPM 12

1. Revised Description - Understanding the Arrhythmia Events

Applicable system software: versions 05.18.00 and above

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Applicable system software: versions 05.18.00 and above

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

3. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 7 arrhythmias: ■ Couplet ■ R on T ■ Multiform PVC ■ PVC ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing

10. BeneVision TM70 Telemetry Monitor

Model: BeneVision TM70

Applicable system software: versions 04.01.00.10 and above

1. Revised Description - Arrhythmia Events

Section	Revised Description
PVC	One PVC detected in between normal beats, and then another PVC detected in the following fourth to tenth (excluding the previous PVC) beats.
Pause	No QRS complex is detected within the set time threshold of pause, and two beats preceding and two beats following the no-QRS-interval are not PVC.
Pauses/min	Pauses/min exceeds high limit. For detailed trigger condition of Pause, refer to the Pause mentioned in this table.

2. Additional Precautions – Changing Arrhythmia Alarm Settings

Section	Revised Description
Changing Arrhythmia Alarm Settings	Note: The alarm condition of Pause is that no QRS complex is detected within the set time threshold of Pause, and two beats preceding and two beats following the no-QRS-interval are not PVC. When the Pause alarm is turned on, if you also want to monitor Pause with PVC-related arrhythmias, it is recommended to turn on the switches for the corresponding alarms in the PVC alarm chain.

11.Passport V Patient Monitor

Model: Passport V

1. Additional Information About Arrhythmia Refractory Periods

Section	Revised Description
Arrhythmia Refractory Periods	For some arrhythmias in the medium priority chain, an arrhythmia can be deactivated in a designated period of time. This period is called refractory period. When an arrhythmia alarm disappeared, the refractory period automatically starts. During the refractory period, the same alarm does not trigger again. The refractory period is 30 seconds, and is available for the following 7 arrhythmias: ■ Couplet ■ R on T ■ Multiform PVC ■ PVC ■ Missed Beat ■ Pacer Not Capture ■ Pacer Not Pacing Due to version differences, the arrhythmia refractory period may be different from the description above, but this difference does not affect the basic parameter measurement function. Another possible manifestation of the arrhythmia refractory period is as follows: ◆ No refractory period.

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