10-day electronic temperature monitoring devices

According to WHO Guidelines on the international packaging and shipping of vaccines a 10-day electronic temperature monitoring device should be included in each international vaccine shipping carton.

10-day electronic temperature monitoring devices show when, and to what extent, the set temperature conditions have been violated.

There are two types of devices:

Type I device that is attached to YELLOW backing card is designed to accompany the DTP, DT, TT, Td, HepB, IPV, liquid Hib and combination vaccines.

Type II device is attached to BLUE backing card and is designed to accompany the OPV and freeze-dried BCG, measles, MR, MMR, lyophilized Hib, yellow fever and meningitis vaccines.

10-day electronic temperature monitoring devices show when, and to what extent, the set temperature conditions have been violated.

When you receive an international vaccine shipment, you must open ALL cartons to remove the devices. This has to be done one-by-one.

1

When you remove the Q-tag 2plus from the carton you will see run signal flashing on the bottom right corner of the screen meaning that the device is in active recording mode.

2

If everything is OK with the shipment, that is no violation has had occured, the OK sign will be seen in the middle of the screen.

In order to stop the device you have to press the STOP button for three seconds. The run sign will disappear from the bottom right corner of the screen and the stop sign will appear on the bottom left corner of the screen. The device is now stopped and will not record anymore.

3

If any of the set temperature limits is violated, an ALARM indicator will be seen in the middle of the screen under the total elapsed transport time.

In order to read the details of temperature history during the transit time, you must set the device into HISTORY mode.

1

When you remove the 3M TX from the carton you will see an arrow (▶) on the bottom of the screen indicating that the device is in recording mode.

2

To stop the device, you must press the STOP button. Once stopped, the arrow symbol indicating the running status will disappear and the STOP symbol that is a blank square (☐) will appear at the bottom of the screen. The device is now stopped and will not record anymore.

If everything is OK with the shipment and no violation has occurred, the OK sign will be seen at the bottom left corner of the screen.

3

If any of the set temperature limits is violated, you will see a NOT OK sign at the bottom of the screen displayed as a crossed-out OK in a circle.

If there are any alarms, write down the time you stopped the device on the backing card. This is important when you refer to the device after you stopped it. It will help you to calculate the precise time of violation.

Make a photocopy or scan the device to document the ALARM status. In each image, indicate the number of the box that the device was in. Include all necessary information in the Vaccine Arrival Report (VAR).

If there are any ALARMS, fill in the Alarm Reporting Form and attach it to the VAR.

Send the VAR with photocopies or printed images from scanned devices and the Alarm Reporting Form to the "procurement agency".

World Health Organization

Department of Immunization, Vaccines and Biologicals
Quality, Safety and Standards