

III. PREVENTION OF INTERFERENCE BETWEEN WIRELESS COMPONENTS

Interference, which can result in an inability to acquire accurate data, may occur in the following scenarios:

- a. There are multiple wireless systems within 50 feet of each other that are on the same wireless channel (e.g. 2 wireless ERs in the same clinic on channel 16).
- b. The antennas of any wireless components are within 3 feet of each other (e.g. the antenna on the Hub is within 3 feet of the antenna on the top slider of the ER Column).
- c. There is not a direct line of sight between the antennas of the wireless components. In addition, any metal that is between the antennas will cause interference.

You may prevent interference by maintaining your system in the following manner:

- a. Do not allow the Hub to fall on the floor; there are magnets inside the Hub that will aid in securing it to the computer cart.
- b. Regularly check the USB cable that is attached to the Hub and check the power cable that is attached to the ER column.
- c. Verify the antennas are in good working order and properly secured.
- d. Verify there are freshly-charged batteries in the Hip unit.

You may also prevent interference by using the following guidelines:

- a. If there are multiple wireless systems within 50 feet of each, verify that each unit is on a different wireless channel. Refer to Section 02-IV-C-4 (URFIO Configuration Application) for how to determine on which channel a system is operating.
- b. The recommended location for the Hub is on the second shelf of the computer cart. This helps to ensure the antenna of the Hub will be at least 3 feet from the antenna on the ER column. In addition, be wary of where the Hip unit is with respect to the Hub, especially if the Hip unit is secured to a patient who is moving around the system.
- c. Verify there is a direct line of sight between: 1) the Hub antenna and the ER column antenna and 2) the Hub antenna and the Hip antenna.