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Video Display for Teaching Fiberoptic Intubations

To The Editor—Fiberoptic intubation is increasing in popularity as one of the preferred methods to accomplish difficult intubations.

In experienced hands, a fiberoptic intubation can be accomplished easily and rapidly. However, teaching the technique to residents presents an unusual problem in that only the person actually manipulating the bronchoscope is able to visualize the anatomy. This results in the resident learning by trial and error rather than from instruction by the attending anesthesiologist. This inability to instruct and direct residents while performing the procedure results in resident frustration when the attending anesthesiologist "takes over" and accomplishes the intubation. We describe a method that allows more than one person to view the actual procedure while the resident is attempting the intubation.

The television camera commonly used during arthroscopic examinations easily attaches to the fiberoptic bronchoscope head. With proper adjustment of the television camera, orientation to up and down is easily accomplished. During the intubation, both resident and attending anesthesiologist watch the television screen. The resident can then manipulate the bronchoscope with the attending anesthesiologist assisting in identification of structures and direction of movement. Our fiberoptic scope is an Olympus® LF1 pediatric bronchoscope. The camera used is a Karl Storz® model 9000 the output of which is fed into a video cassette recorder and television set.

Before inserting the fiberoptic bronchoscope, it is essential to obtain proper spatial orientation. This is easily accomplished by pointing the scope at some small object or print and observing the television screen for up/down/left/right orientation. Once proper orientation has been achieved, it is important to "fix" the camera on the fiberoptic bronchoscope so the camera does not rotate.

A video tape recording of the technique is possible and the video tape recording can be used for teaching purposes when new residents are first introduced to fiberoptic intubations.

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Pulse Oximeter Cost Per Use—Securing Savings

To the Editor—Pulse oximetry has rapidly become a vital measurement for patients undergoing anesthesia and surgery. Our hospital adopted this new technology early in 1985 and quickly realized its clinical value; it took much longer to realize the associated supply costs.

With the initial acquisition of the Nellcor® N-100 by the hospital, each unit came to the department with a reusable clip-on sensor (DS-100A), about 35 units and reusable sensors in all. We experienced some sensor breakage; however, the reusable sensors disappeared from the OR in about 4 months. Apparently, the reusable sensor was discarded by the clinical staff in favor of the disposable sensors which were initially estimated to last at least ten patient uses.

After reviewing the department's disposable sensor use in July of 1987, our annual usage figures indicated we were obtaining 4.9 patient uses per disposable sensor ($23,440/5179) at an annual cost of $69,490; it appeared that many disposable sensors were sent with patients from the OR to the ICU or thrown away after a few uses. A pilot program...