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medium-low, medium-high, high) based upon the type of procedure performed and the value of the NNIS SSI risk index (0,1,2,3). In addition to the three risk factors (duration of surgery, ASA score, wound class) that are counted in the NNIS SSI risk index, the operative procedure plays an important role in determining the risk of developing a surgical site infection. For example, a coronary artery by-pass graft operation with one risk factor carries a similar postoperative risk of infection to that of a colon resection with no risk factors. Based upon the procedure and the value of the risk index, NNIS personnel have developed a method of classifying all NNIS operative procedures into one of four strata: low, if the SSI risk is less than 2%; medium-low, if the SSI risk is at least 2% but less than 5%; medium-high, if the SSI risk is at least 5% but less than 9%; and high, if the SSI risk is 9% or more. For example, the rates for cholecystectomies with one risk factor carry similar risk of developing an SSI, as do the rates for gastric surgeries with no risk factors, because both of these are included in the medium-low risk strata. Work is continuing and will be published when completed. In addition, efforts to identify procedure-specific risk factors is continuing for the eight procedures of 40 NNIS operative procedures where the NNIS risk index does not predict surgical infection risk.

The use of these risk factors allows hospitals to combine data from several procedures within the same risk stratum, (e.g., appendectomies and cholecystectomies) with no risk factors in order to calculate a more accurate estimate of their surgical infection rates since the denominator for each hospital will have a larger number of procedures. Surgeonspecific infection rates can also be combined for more accurate

estimates. These rates can then be compared to rates from the aggregated NNIS data. The conference included a session on how to compare SSI rates calculated for an individual hospital or surgeon with aggregated NNIS data.

One of the most spirited discussions of the conference occurred in the session on Methods to Obtain Post-Discharge SSI Surveillance Data in the NNIS System. Numerous infection control practitioners commented on a draft protocol for post-discharge surveillance of SSIs, which was sent to all NNIS hospitals in early November 1992. As a result of the discussions, NNIS personnel are reexamining the entire protocol. The major obstacle appears to be the lack of a baseline, also called the gold standard, for comparing the efficacy of the approaches in the protocol. Many practitioners described time-consuming approaches to finding SSIs after discharge of patients, only to find

very few infections. Either the infections were not occurring outside the hospital (in contrast to most published reports) or the methods used by practitioners (e.g., contacting the surgeons) were insufficiently accurate to be of value. In addition, strong concerns were voiced about the personnel resources that would be required by the proposed post-discharge surveillance protocol. The suggestion was made to find funding for establishing the "gold standard" to evaluate patients at a specified time after surgery and their discharge from the hospital. Several of the approaches to post-discharge surveillance could be followed concurrently. However, without a gold standard, the value of the draft protocol was seriously questioned.

Further conferences for hospitals participating in the NNIS system are planned; current plans call for the next conference to be held in two years.

OSHA Response to a Query by SHEA Liaison

The Occupational Safety and Health Administration (OSHA) recently provided our liaison, Dr. Michael Decker, with a formal response to a query posed in July. SHEA requested clarification of the employer's responsibility for laundering the personal clothing of an employee in the event the clothing became contaminated with blood, either through failure of personal protective equipment or through unanticipated exposure. OSHA agreed that the

standard did not address this situation, and concluded, therefore, that employer citations for failure to launder contaminated personal garments "may be inappropriate." However, if the contamination were due to the employer's failure to evaluate a hazard or to provide appropriate protective equipment, citations "may be issued." OSHA concluded by encouraging employers to provide for such laundering, if feasible.

Brief items of interest for the SHEA News 07 Newsletter may be sent to C. Glen Mayhall, MD, SHEA, Newsletter Editor, Division of Infectious Diseases, Department of Medicine, University of Tennessee, 956 Court Ave., Memphis, TN 38163; FAX (901) 528-5854. Copy should be typed, doublespaced, and should not exceed five pages.