Ceftazidime proved an excellent selective antibiotic for this MRSA in subcultures from the enrichment medium; interference from contaminating flora was noted only sporadically. MRSA was clearly visible after 24 hours of incubation. Moreover, no MRSA could be detected after 48 hours of incubation if it was not already visible after 24 hours on this medium. Overall, MRSA colonies were larger with a brighter zone of hemolysis compared to the Mueller-Hinton medium. Overall, MRSA colonies could be detected after 48 hours of incubation. Moreover, no MRSA was clearly visible after 24 hours. Furthermore, no MRSA was detected after 48 hours if it was not already visible after 24 hours on this medium. The control of epidemic methicillin-resistant Staphylococcus aureus. J Hosp Infect 1990;16: 351-377.


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Industry Has Not Eliminated Needlestick Injury: Is It Time for Personal or Federal Intervention, or Both?

To the Editor:

Ten years ago, any standard intravenous (IV) administration set afforded adequate access for IV drug administration (using hypodermic needles via latex Y-ports). Since the discovery of acquired immunodeficiency syndrome, a new multimillion dollar “needleless IV access” industry has developed. In spite of great expenditures for multiple types of “needleless” products, this technology has not had a significant impact on needlestick injury rates. Needleless products typically are used in addition to hypodermic needles and standard latext ports, and one prospective study actually demonstrated an increased use of hypodermic needles when a needleless system was introduced.

This development is particularly frustrating, as 10 years ago, my practice of anesthesia in West Germany was possible without needlestick injury dangers during IV injections. There, all IV cannulae had Luer-lock injection ports as integral components of the cannulae itself (Figure), and IV administration set tubings consistently lacked injection ports. Injections only were possible by directly attaching the syringe (without hypodermic needle) to the Luer port of the cannulae, via an inserted stopcock. Needles only were used safely, during sterile conditions, and prior to patient contamination, while filling syringes with drugs. A second positive facet of these techniques resulted: syringes were used to inject drugs into only a single patient, as the syringe tip directly contacted the port and at a location very near the patient’s bloodstream. In American anesthetic practice, common syringe utilization on multiple patients throughout the day was, and remains, commonplace, as many anesthetists feel syringe contamination is excluded when latex ports are injected using needles.

The Food and Drug Administration (FDA) prohibited entry of Venflon “injection cannule” into the US market in the late 1960s, because there were fears of port contamination and patient infection (apparently
drug particulate contamination is a recognized and common, if not constant, occurrence during contemporary IV therapy with hypodermic needles. Coating of vial membranes from blunt cannulae access, as well as puncture force requirements, if of concern, could be minimized further with the development of vial membranes intended for this type of use, or possibly eliminated completely via membrane prepuncture with a non-hollow lancet. It is unlikely that drugs will be marketed universally in containers with Leur openings or pre-slit membranes (specifically designed to eliminate needle usage), particularly if implementation is left to multiple manufacturers: the costs for development, stringent FDA approval and drug stability requirements, and nonexistent patent protection (ie, market advantage) provide no corporate incentive.

Syringes no longer should be marketed with hypodermic needles in place, and factory prepiercing of all latex membranes of standard IV administration sets should be required. These two measures would make IV drug administration using blunt needles, from start to finish, safe and convenient. Hypodermic needles could be eliminated from the much larger number of nontranscutaneous manipulations, while allowing conscious hypodermic utilization only for skin puncture.

Prepierced (used) latex ports and blunt needles clearly are generic (nonproprietary) items, would be cheap to produce, and are familiar and easy to use. One small manufacturer had attempted to market these products, but burdened with a nuisance lawsuit by a very large corporation, was financially unable to litigate this generic concept and prevail in the public interest. It is time for government to pursue actively the cost containment and worker safety that federal programs demand, by litigating or legislating the described measures. Until then, we must continue to risk needle injury or simply quit buying syringes with hypodermic needles attached (which can be done; for example, Sherwood/Monoject markets all syringes with blunt cannulae or hypodermic needles) and produce our own prepierced ports via safe homemade measures using available products. I have been using a blood lancet (Becton-Dickenson #5755, Franklin Lakes, NJ) successfully and without membrane compromise to prepuncture any port membrane. In this way, I have eliminated completely the need for hypodermic needles. The paper-thin packaging of these lancets allows me to carry multiple sterile lancets in my pocket to ensure their availability at all times. The flat, nonhollow, triangular lancet point creates a hole indistinguishable from manufactured pre-slit membranes, and facilitates cannulae insertion over needle holes and without coring.

REFERENCES

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Controlling Vancomycin-Resistant Enterococci

It has come to our attention that the legend for Figure 1 in the Concise Communication article “Controlling Vancomycin-Resistant Enterococci” (1995;16:634-637) contained an error. The box to the left of the legend “epidemic vanB” should have been filled with a tiny, dotted pattern. Please see the revised figure with its legend as printed on this page. We regret any inconvenience this may have caused the authors and our readers.

FIGURE 1. Number of patients with vancomycin-resistant Enterococcus faecium, by month of first positive culture. Dates of implementation of various control measures are shown by heavy vertical arrows, and dates of point-prevalence culture surveys are shown in small vertical arrows.