

INTRODUCTION

Similar to human clinical microbiology laboratories, the work performed in veterinary diagnostic laboratories has inherent risk to laboratory workers. According to the 2008 American Veterinary Medical Association "One Health Initiative" task force report (www.avma.org/onehealth), 60% of infectious diseases in humans are due to multihost pathogens that move across species lines (1). Over the last 30 years, 75% of the emerging human pathogens (e.g., West Nile fever, avian influenza, Lyme disease) have been zoonotic (transmitted between animals and humans) (2). Thus, veterinary diagnostic laboratories are at risk for laboratory-acquired infections (LAIs) from multiple host species pathogens.

Potentially infectious agents in human diagnostic specimens are by definition human pathogens. Not all infectious agents in host species submitted to a veterinary diagnostic laboratory are human pathogens (e.g., are zoonotic). The key to managing biosafety risk in veterinary diagnostic laboratories involves good general biosafety practices, secure facilities, and a practical risk analysis of diagnostic samples that may or may not include zoonotic organisms. Within the veterinary laboratory and animal

facility environment, there will be the inevitable presence and handling of biological materials that can pose biological risks for both animal and human populations. The primary reasons to contain potential pathogens during diagnostic laboratory testing are prevention of LAI in humans and prevention of release of pathogens into the environment, potentially infecting animals and humans. Therefore, it is of critical importance that laboratory facility managers ensure that biological risks in their facility are clearly identified, understood, controlled, and communicated to the appropriate stakeholders.

Many of the biosafety practice guidelines listed in other sections of this text and the *Biosafety in Microbiological and Biomedical Laboratories* (BMBL), 5th edition (3), will suffice for use in veterinary diagnostic laboratories. Important changes and clarifications to the practices associated with biosafety level 2 (BSL2) laboratories are in the 5th (latest) edition of the BMBL released in 2007.

Another excellent reference is a CDC publication, "Guidelines for Safe Work Practices in Clinical Diagnostic Laboratories," which is directed specifically toward clinical laboratories handling diagnostic specimens of

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