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Mass Removal in Animals: Surgical Interventions, Challenges, and Ethical Considerations

Xiao Wang*

Department of Veterinary Surgery, Peking University, China

DESCRIPTION

Mass removal, also known as tumor excision or surgical debulking, is a common medical intervention in both human and veterinary medicine. This procedure involves the removal of abnormal growths or masses, such as tumors or cysts, from animals to alleviate symptoms, prevent further complications, and potentially improve the overall health and quality of life. This article explores the various aspects of mass removal in animals, encompassing the surgical techniques involved, challenges faced by veterinarians, post-operative care considerations, and ethical aspects associated with these procedures. Mass removal surgeries in animals require a thorough understanding of anatomy, pathology, and surgical techniques. The specific approach adopted depends on factors such as the type, location, and size of the mass, as well as the overall health of the animal. Here are some common surgical techniques employed in mass removal procedures: Before proceeding with a complete mass removal, veterinarians may perform an incisional biopsy to obtain a tissue sample for pathological examination. This helps determine the nature of the mass and guides further treatment decisions. In cases where the mass is well-defined and easily accessible, excisional biopsy involves removing the entire mass along with a margin of healthy tissue. This approach is often used for benign tumors or cysts. En bloc resection involves removing the entire mass along with any adjacent tissues that may be affected or at risk. This technique is commonly employed for malignant tumors to reduce the likelihood of recurrence. Electrosurgical techniques use high-frequency electrical currents to cut, coagulate, or vaporize tissues. Electrosurgery is often employed for smaller masses or in areas where precision is crucial. Laser surgery utilizes focused laser beams to cut or vaporize tissues. This technique is employed for specific cases where minimal bleeding and precise tissue removal are essential. In cases where the mass is located internally, laparoscopic or minimally invasive surgery may be employed. This involves making small incisions and using a camera-equipped instrument for visualization and removal of the mass. In cases involving masses on bones or joints, orthopedic surgical techniques may be employed. This could include procedures such as limb amputation, joint arthroplasty, or bone excision. While mass removal surgeries in animals can be highly successful, they come with their set of challenges. These challenges may vary depending on the species, size of the animal, type of mass, and its location. Some common challenges include: Administering anesthesia to animals, especially to small or exotic species, carries inherent risks. Maintaining a stable anesthetic plane throughout the surgery is crucial, and the choice of anesthetic agents must be carefully considered based on the patient's health status. Some mass removal surgeries may require invasive techniques, leading to potential complications such as excessive bleeding, infection, or damage to adjacent structures. Minimizing invasiveness while ensuring complete mass removal is a delicate balance. Effective postoperative pain management is essential for the well-being of the animal. Finding the right balance of analgesics and monitoring pain levels is crucial to prevent unnecessary discomfort. In cases of malignant tumors, there is always a risk of recurrence, even after seemingly successful mass removal. This necessitates close postoperative monitoring and may involve additional treatments like chemotherapy or radiation therapy.

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CONFLICT OF INTEREST

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Corresponding author Xiao Wang, Department of Veterinary Surgery, Peking University, China, E-mail: xiaowang@pku.edu.cn

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