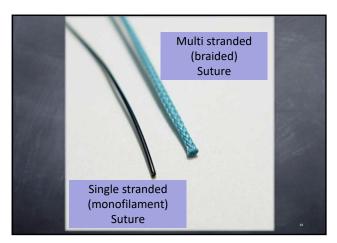
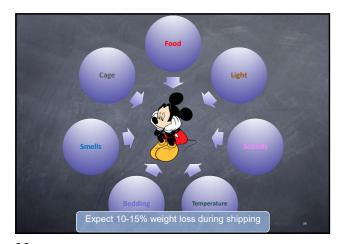


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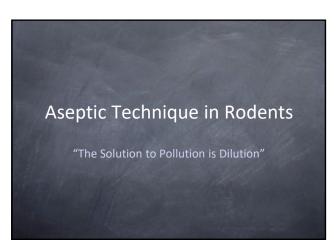






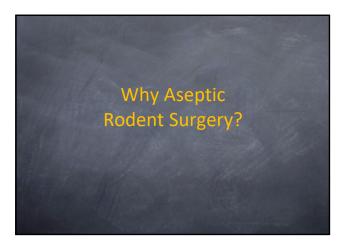






37 39







Aseptic technique increases success of ovarian transplants in mice & speeds return to post-op normal (cunliffe-Beamer 1972-73; Cunliffe-Beamer 1990)

Contamination activates macrophages (Bancroft, Schreiber et al. 1989), and leads to changes in cytokines & B cells levels (Abbas, Lichtman et al. 1991)

SUBCLINICAL infections induce physiological changes (Committee on Infectious Diseases of Laboratory Rats and Mice 1992)

Although NO CLINICAL SIGNS observed, experimentally inoculated rats (10³ S. aureus or P. aeruginosa) had significant alterations in plasma fibrinogen, serum glucose, total white blood cell counts, and wound histology scores (Bradfield, John et al. 1992)

42 43



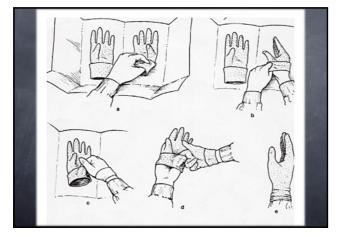


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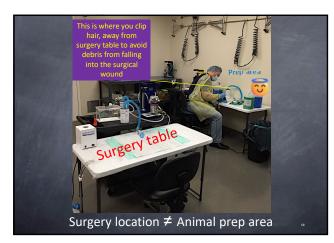


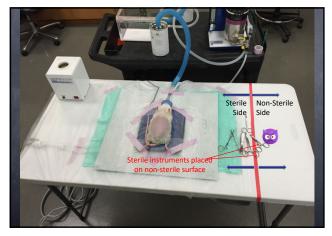




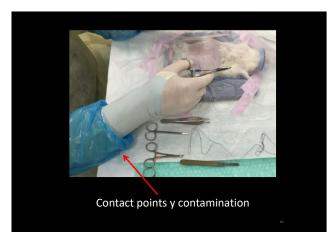
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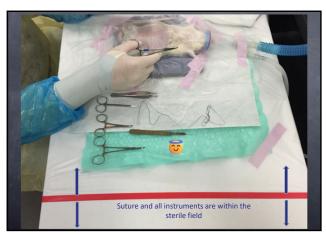








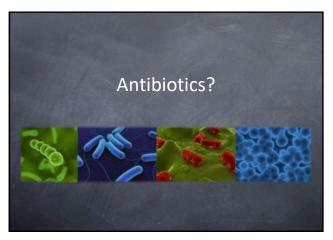
61 62











Antibiotic use

Not a substitute for proper asepsis (...false sense of security...)

Use judiciously – resistant strains

Consider antibiotic rotation (Uresistant strains)

Generally, not recommended - justify

Best preemptively

Once pre op usually enough

Adds one more variable???

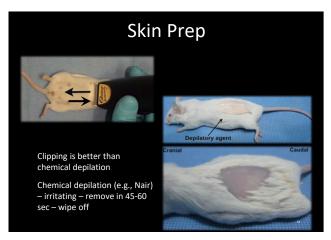
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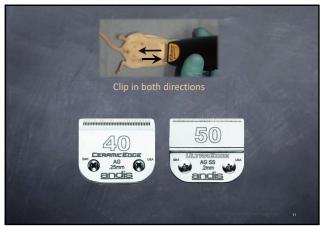








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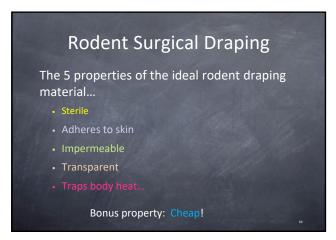












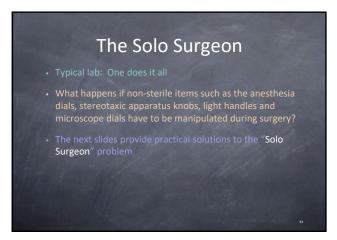
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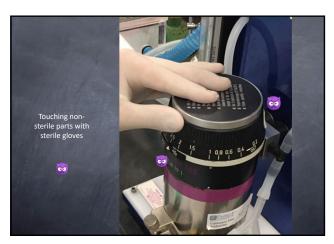






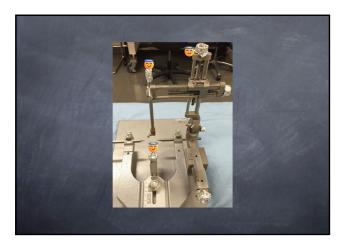




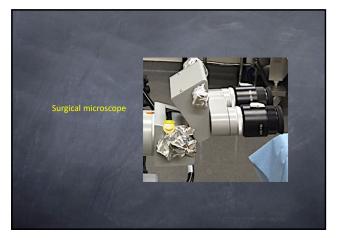


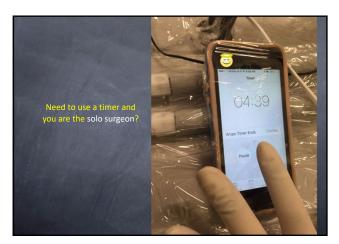
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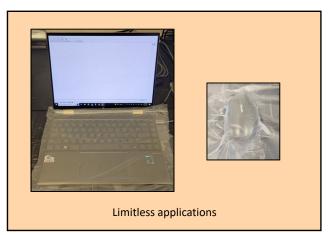




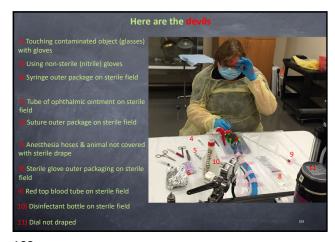




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Other Practical Uses of Press'n Seal

• Temporary Wound Closure: Temporarily close wounds. adheres well and provides protective seal until proper sutures or staples applied

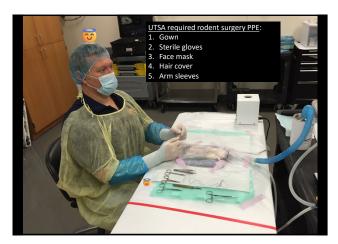
• Hemostasis: Minor bleeding, hemostatic barrier. Apply gentle pressure to the wound, and film will help control bleeding

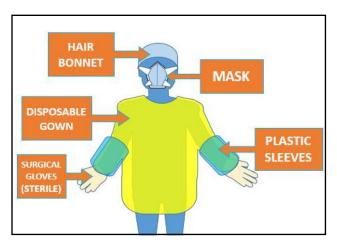
• Organ Protection: When working near organs or delicate tissues, can shield them from accidental damage or contamination

• Even as a temporary phone screen protector

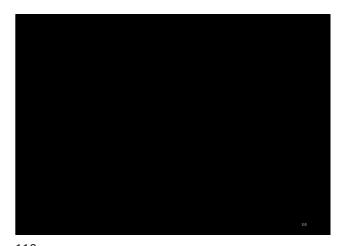
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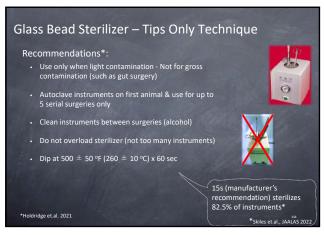


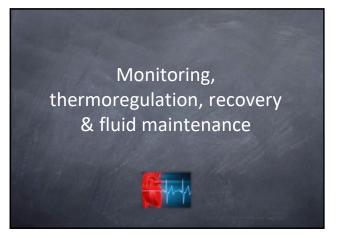


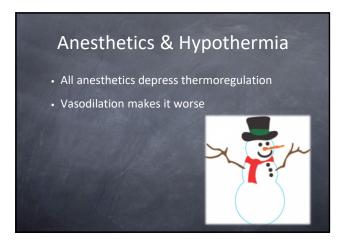


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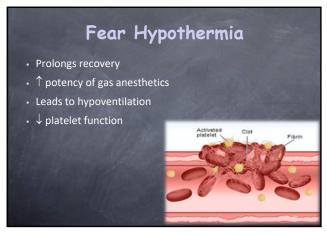
Fear Hypothermia

Rodents lose heat rapidly (high surface area/body wt ratio)

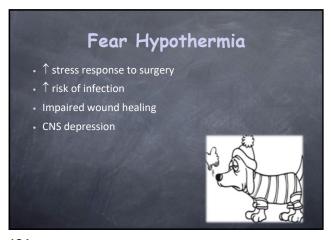
Starts at induction

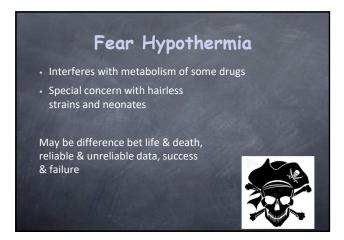
Exacerbated by cold, dry gases, shaving, skin prep solutions & admin of cold fluids

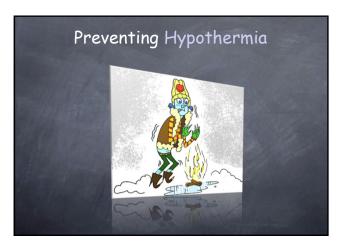
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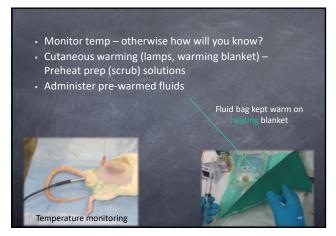




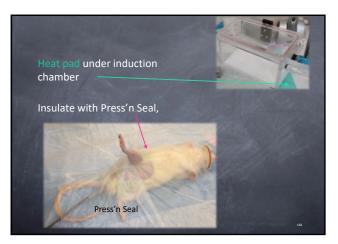


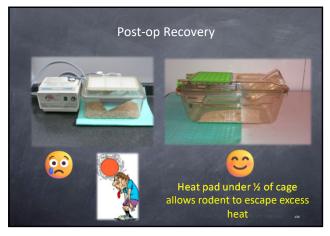


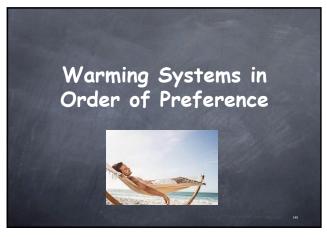




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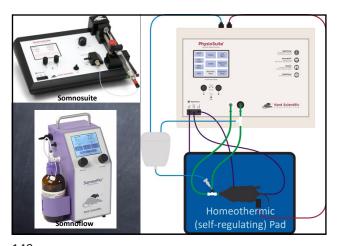




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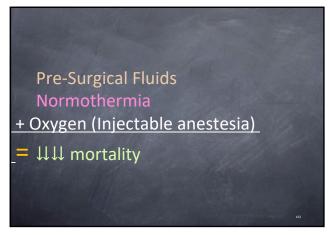








150 151







Multimodal approach provides superior analgesia compared to use of a single analgesic*

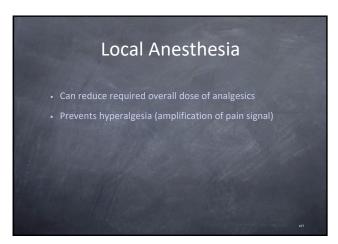
Combinations of:

NSAIDs – nonsteroidal antiiflammatory drugs

Opioids

Local anesthesia

154 155



Local Anesthesia — Part of Multimodal Strategy

Local Anesthetic Onset Duration (toxic dose)
Lidocaine 1-3 min ~40 min 10 mg/kg

Bupivacaine ~20 min ~4-6 hours 5 mg/kg

• Mix: ½ and ½ volume of each solution
• Administer under incision and surrounding area

157 158











Post Op Social Housing*

• Pair housing improves animal wellbeing

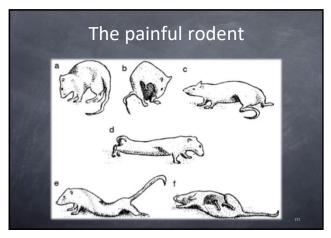
• Pair housing does not increase cage mate trauma to the surgical incision

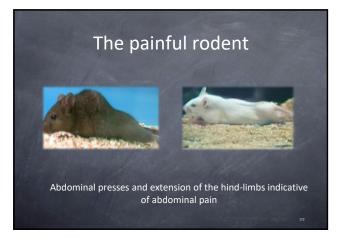
*Tirado-Muñiz et al 2023

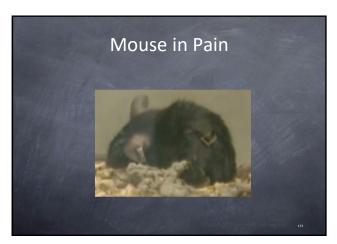
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173 174





