

# NU – IACUC

## POLICY

Northeastern University Institutional Animal Care and Use Committee

### **Blood Collection**

#### **Technique:**

Blood collection from animals in survival protocols must be done using aseptic technique and in a designated procedure area. Aseptic technique requires that the site is cleaned with alcohol prior to collection and only sterile (single use) needles and syringes be used. In situations where an indwelling catheter will be placed, the site must be clipped, prepped and wiped with betadine and alcohol. Blood collection from acute non-survival procedures must also be done in designated procedure area. Aseptic technique is not required but is still recommended.

#### **Blood volume:**

The maximum amount of blood collected from any species cannot exceed 25% of their total blood volume in a two week period of time. It is recommended that no more than 15% of the circulating blood volume be taken at one collection. If it is essential to take between 15% - 20% at one collection, fluid replacement must be administered. No more than 20% can be taken at one time for survival procedures.

Every species has a different whole blood volume. The following is a list of species used at Northeastern University and their total blood volume based on body weight:

Rat	58 ml/kg
Mouse	78
Rabbit	60
Dog	79
Sheep	58
Swine	67

### **Collection Sites:**

The following is a list of recommended collection sites according to species:

Rat, Mouse: tail (lancing of vein or via needle/syringe), retro-orbital\*, cardiac puncture\*\*

Rabbit: Central ear artery, lateral ear vein, cardiac puncture\*\*

Hamster/Gerbil: retro-orbital\*, cardiac puncture\*\*

Bird: wing vein, cardiac puncture\*\*

\* Only permitted with the use of anesthesia unless a strong scientific justification to perform without anesthesia is provided in the protocol and approved by the IACUC.

\*\* Only permitted under anesthesia, as a terminal procedure.

Approved: