

**SOP No:** AHP 53

**SUBJECT** Inoculation of neonatal mice with Pneumonia Virus (PVM)

**REASON FOR USE:** To characterise the immune response following a primary infection with PVM in neonatal mice.

**POLICY:** This procedure must be performed by an experienced operator.  
This procedure must be performed in ventilated isolation cages within an animal facility

**PRECAUTIONS:** Gloves, mask, long-sleeve gown, closed in shoes.  
Laminar flow cabinet  
Dispose of waste appropriately

**EQUIPMENT:** PVM (5 Plaque Forming Units, 50 PFU)  
Pipettor  
Pipette tips

**PROCEDURE:**

1. Source pregnant mice <14 days gestation and settle until pups are born.
2. Primary infection: Newborn mice are infected intranasally with vehicle, 5 PFU or 50 PFU of PVM in a volume of 5ul on at 7 days of life. Neonatal mice are not anaesthetised for this procedure, but simply restrained by the skin on the back and a gel loading pipette tip is used to administer the 5ul to the tip of the nose.
3. Monitor animals daily.
4. At approximately 3 weeks of age, infected mice are weaned from their mothers and the mothers' euthanised.

**Sacrifice:** Mice are sacrificed at specific time points by Lethobarb overdose (as per SOP AHT 39).

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**REVISED:**

**REFERENCES**

1. Siegle JS, Hansbro N, Herbert C, Rosenberg HF, Domachowske JB, Asquith KL, Foster PS, Kumar RK (2010). Early-life viral infection and allergen exposure interact to induce an asthmatic phenotype in mice. *Respiratory Research* 2010, 11:14