



Standard Operating Procedure

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Title: Subcutaneous Implantation of Microchip Transponders (ELAM)		
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I. PURPOSE

The purpose of this SOP is to describe the procedure for implanting microchip identification or identification/temperature transponders in rabbits, rodents, and nonhuman primates.

II. RESPONSIBILITY

Any person implanting a subcutaneous transponder is responsible for following the procedure as described.

III. MATERIALS

IMI-1000 or equivalent
IPTT-100 or equivalent

IV. EQUIPMENT

implanting device
sharps container

V. PROCEDURE

A. General

1. There are two types of transponders supplied by BioMedic Data Systems, Inc.
 - a. The IMI-1000 is an identification-only transponder, supplied with a magazine-type implanting device.
 - b. The IPTT-100 is an identification and temperature transponder, supplied with a single-load implanting handle.

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2. Animals will be implanted as follows:

a. All nonhuman primates will be implanted with IMI-1000 transponders unless the investigator specifies use of the IPTT-100.

b. Rabbits will be implanted with IMI-1000 transponders unless the investigator specifies use of the IPTT-100 or no transponder at all.

c. Rodents will be implanted only if the investigator requests and specifies this identification method in the animal use protocol.

3. Both types of transponders are coded with a unique identification number by the manufacturer.

a. Before it is implanted, the transponder will be scanned to ensure that it is functional. The test scan will be documented in the animal's medical record and/or the investigator sheet as appropriate.

b. The investigator may reprogram the transponders to provide another identification number if desired. (In this case, the investigator should coordinate with the personnel implanting the transponders in order to be present during the implantation process.)

c. The factory-provided or investigator-programmed identification number will be noted in the animal's medical record, the investigator's data sheet, and/or the cage card as appropriate.

B. Implantation of IMI-1000 transponders

1. Open the handle/container unit by pulling back the sliding cap.

2. Dispense a single transponder unit by tilting the handle/container.

3. Install the needle unit on an empty handle container by inserting the flat end into the pocket and pressing down to snap into position. **Note:** Needle bevel should face left for right-handed user and right for left-handed user.

4. Lock needle in place by gently pushing the sliding cap forward. **Note:** The plunger must remain in retracted position.

5. One person restrains the animal (except nonhuman primates which are chemically restrained) while the other person implants the transponder as follows:

a. Remove the needle cover and hold the handle/container so that the bevel of the needle

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faces upward.

- b. Tent the skin of the back and insert the needle subcutaneously up to the plastic sleeve.
- c. Gently drive the plunger forward to implant the transponder. **Note:** Do not withdraw the needle prematurely.
- d. After the transponder is delivered, withdraw the needle and gently massage the area to ensure that the transponder does not exit through the puncture site.
- e. Pull back the sliding cap and carefully lift out the used needle unit. Put the used needle unit in a Sharps container for disposal.

C. Implantation of IPTT-100 transponders

1. Slide the cap of the implanting handle back by pulling the plunger. This will open the pocket.
2. Insert a needle unit into the pocket. The key of the needle will fit into the slot in the pocket and will ensure that the bevel is facing up.
3. To lock the needle unit in place, slide the cap forward by placing the thumb in front of the plunger and pushing the ridge only. **Note:** The plunger must remain in the retracted position.
4. One person restrains the animal (except nonhuman primates which are chemically restrained) while the other person implants the transponder as follows:
 - a. Remove the needle cover and hold the handle/container so that the bevel of the needle faces upward.
 - b. Tent the skin of the back and insert the needle subcutaneously up to the plastic sleeve.
 - c. Gently drive the plunger forward to implant the transponder. **Note:** Do not withdraw the needle prematurely.
 - d. After the transponder is delivered, withdraw the needle and gently massage the area to ensure that the transponder does not exit through the puncture site.
 - e. Pull back the sliding cap by pulling the plunger and carefully lift out the used needle unit. Put the used needle unit in a Sharps container for disposal.

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VI. REFERENCES

- AC-11-11 Injectable Anesthesia of Rodents
- AC-11-12 Injectable Anesthesia for Rabbits
- AC-11-13 Injectable Anesthesia for Nonhuman Primates

VII. DISTRIBUTION

See SOP AD-01-02 Distribution of Standard Operating Procedures