1.0 Purpose
The purpose of SOP 6.15 is to provide details on Estradiol pellet implantation.

2.0 Scope
SOP 6.15 is intended to cover all resources, personnel and equipment in the BCR laboratory.

3.0 Materials

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<td>17β-Estradiol Pellets</td>
<td>Cat# SE-121, 60day release, 0.18 mg/pellet</td>
<td>Innovative Research of America</td>
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4.0 Procedure
4.1 The ideal site for pellet implantation is on the lateral side of neck between the ear and the shoulder of the mouse. This has three advantages: it provides the maximal space between the skin and muscle so that the pellet sits comfortably, the animal cannot play with the pellet in that site, and other animals cannot play with the pellet in that site.

4.2 More than one pellet can be implanted in the same site side by side if space allows. In order to ensure reliable and continued performance, the pellet should not come in contact at any time of implantation with any organic solvent or exogenous fluid.

4.3 Using a Precision Trochar for Pellet Implantation:
- Put the pellet in a standing position on needle of trochar, away from sharp edge and press gently.
- Pellet should be stable in that position so that if trochar is pointed downward pellet will not fall.
- Put obturator half way in trochar and hold with stronger hand. With other hand lift skin on the lateral side of the neck of the animal and insert trochar. When the pellet in the trochar contacts the skin, twist the trochar sideways and insert the pellet. Then, push with obterator all the way. Total distance from incision is about 2 cm.

4.4 Pellet Implantation technique without a trochar:
- The implantation procedure for small and large pellets is as follows:
  1) Lift the skin on the lateral side of the neck of the animal.
  2) Make an incision equal in diameter to that of the pellet.
  3) Make a pocket horizontally with a pair of forceps about 2 cm beyond the incision site.
  4) Put the pellet into the pocket with forceps.
  5) Suture the opening with wound clips if necessary.

4.5 NOTE: When either technique is properly executed no antibiotics or stitches are needed and the animal should not bleed.

5.0 Applicable References
5.1 Inserts from Innovative Research of America, for more information contact at pellets@innovrsrch.com

6.0 Change Description

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<th>Revision</th>
<th>Date</th>
<th>Reference</th>
<th>Description of Change</th>
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