Calcium Chloride

A New Tool for Underserved Areas

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A calcium chloride table adds an extra workspace in an area that is away from open surgeries in order to safely increase surgical capacity within a limited space.
What are “intratesticular injections of calcium chloride?”

Calcium chloride for this purpose contains 4 grams calcium chloride dihydrate in 20 ml of ethyl alcohol. It is made of pharmaceutical grade products.

It reduces testosterone significantly and the testicles atrophy.
Our trials

Existing data since 1978 on dogs, in-depth publications in 2007, 2011
Confirmed by HCG challenged testosterone tests funded by Spay FIRST! through generous grants from Parsemus Foundation.
Pathology continuing on samples.
Dogs injected and challenged with HCG at 30 days. Below 0.5 ng/ml of testosterone is a castrated dog. Up to 9.0 ng/ml is within the normal range. Testicles atrophied.

<table>
<thead>
<tr>
<th>Injected on Jan 31, 2014</th>
<th>2-28-2014 30 day HCG challenge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog 1</td>
<td>0.004</td>
</tr>
<tr>
<td>Dog 2</td>
<td>0.004</td>
</tr>
<tr>
<td>Dog 3</td>
<td>0.594</td>
</tr>
</tbody>
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Outcomes

- Testosterone near or below the level of a castrated dog.
- Eliminated libido (major safety factor where there are free roaming dogs).
- Reduced costs dramatically
- Permanent atrophy of testicles
Using calcium chloride
Supplies
- Tool for measurement
- Gauze and soap
- Syringes and extra 23 g needles in 1’ and 1.5”
- Calcium chloride
- Ethyl alcohol
Measuring each testicle
Write the size of the testicle for measuring the correct dose.
<table>
<thead>
<tr>
<th>Testicular Width</th>
<th>Dose per testicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-14 mm and sexually mature adult cats</td>
<td>0.25ml (if testis feels overly full, STOP before full dose)</td>
</tr>
<tr>
<td>15-18 mm</td>
<td>0.5ml</td>
</tr>
<tr>
<td>19-22 mm</td>
<td>0.8ml to 1ml (continue to fullness)</td>
</tr>
<tr>
<td>23-24 mm</td>
<td>1 ml to 1.5 ml (continue to fullness)</td>
</tr>
<tr>
<td>25-26 mm</td>
<td>1.5 ml to 2 ml (continue to fullness)</td>
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</table>
It is vital that no calcium chloride enter the scrotum. Use of separate, clean needle for each testicle is necessary.

Insert clean needle into bottle
Pull correct dose into sterile syringe
Replace sterile needle on the syringe with calcium chloride and repeat for second testicle.
You will have two syringes with the correct dose of calcium chloride in each. A sterile needle will be attached to each syringe before injection.

Any needle that has been in the calcium chloride will be discarded.
One wipe with chlorhexidine solution.
Use the correct length needle to reach center of testicle. Have 1” and 1.5 “ needles on hand.
ANGULO CORRECTO

ANGULO INCORRECTO
Remove needle very slowly and pinch off testicle
- Tattoo each dog
- Ear tattoo if appropriate
- Microchip if desired
For information:

Contact info@spayfirst.org
www.calciumchloridecastration.com

All veterinary inquiries regarding CaCl will be answered by a licensed veterinarian.