Intrauterine Injections of Liquid Contrast Media in Rabbits

The ethyl iodoophenylundecylate used in these tests was experimental material; it was contained in sterile 5 cc. ampules and its specific gravity was found to be 1.26 at 20 C. The iodized poppyseed oil was the commercial product, "Lejly," marketed by Fougère.

The rate of absorption of the two contrast media was studied by injecting each into ligatured uterine horns of virgin and pseudopregnant rabbits. In the procedure employed the rabbits were prepared for sterile laparotomy under anesthesia produced by intraperitoneal injection of sodium pentabarbitol augmented by occasional small inhalations of ether. With sterile technique silk ligatures were tied loosely around each uterine horn about 1 cm. above the juncture of the horn with the vagina. An 18-gauge needle was then passed into and along the lumen until the needle point lay above the ligature. The latter was then drawn tight to close the lumen of the horn around the shaft of the needle. The contrast medium was then injected, the needle was withdrawn and the ligature tied. In this way the lumen of each horn was occluded permanently, and escape of opaque material into the vagina prevented. Recovery was invariably good from the operation. The rate of absorption was followed by radiographs at varying intervals. After 10-14 days biopsy of one horn or of the whole side was carried out and subsequently the animals were sacrificed at intervals. Histological sections were prepared and stained in the usual manner with E & E stain.

Ten rabbits were injected with ethyl iodoophenylundecylate and five rabbits with iodized poppyseed oil. The amounts injected, days for absorption as shown on radiographs, and the results on autopsy are recorded in the accompanying table. It should be noted that the column "Amount Injected" indicates the amount injected in each uterine horn, so that each rabbit
received double the dose recorded. The findings on biopsy were essentially the same as those on autopsy and are therefore omitted. The animals were killed when radiographs showed that all the contrast medium had been absorbed or at the end of the period indicated in the table.

The significant result from the experiment is that ethyl iodoophenyl-undecylate is more irritating than iodised poppyseed oil and that it is absorbed much more rapidly. The irritating qualities of ethyl iodoophenyl-undecylate are brought out particularly in the results obtained with the pseudopregnant rabbits where in nearly every instance the endometrium was destroyed completely. Both drugs produced considerable dilation of the uterine horn but this does not seem to bear any relationship to the dosage. The conditions of the experiment were so extreme, however, that it is hard to relate the results to the practical application of liquid contrast media as in hysterosalpingography.

Summary: Intruterine injections of liquid contrast media in the ligatured horns of rabbit uteri result in dilation of the organ and partial or complete destruction of the endometrium. With ethyl iodoophenylundecylate absorption is fairly rapid but with iodised poppyseed oil the absorption is slow.

<table>
<thead>
<tr>
<th>Result</th>
<th>Test: absorption: long time? damage?</th>
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<tbody>
<tr>
<td>Cost</td>
<td>a damaging medium w/ membranes being destroyed</td>
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In humans, 90% lose use of movement (leg muscles, heart, etc.)

Though damage caused by said dye on the classic similarity can not be ignored!

*Go out to leaf endometrium is the mucous membrane in the uterus
Humans as well as rabbits (must) women who can have children, dye was also injected into the fetus prior to the child birth, did it damage the child(=) uterus membrane?

*The damage reaction re: Myography in spine is to the membrane the membranes are
Iophendylate Pantopaque was later to be licensed by the FDA for Intrauterine Injection in women. Many female CIAA sufferers also after injection of Pantopaque were unable to have children.

Based on these animal results, God knows what happened to those women that had intrauterine Injections with Iophendylate Pantopaque.