<<

Ethiodized oil

| DENTIFICATION | | | | | |
|-----------------------|--|--|--|--|--|
| Name | Ethiodized oil | | | | |
| Accession Number | DB00965 (APRD00960) | | | | |
| Туре | Small Molecule | | | | |
| Groups | Approved, Investigational | | | | |
| Description | Ethiodized oil is used by injection as a radio-opaque contrast agent. It is composed of iodine combined with ethyl esters of fatty acids of poppyseed oil, primarily as ethyl monoiodostearate and ethyl diiodostearate. The precise structure is not known. | | | | |
| Synonyms | EOE 13 | | | | |
| Prescription Products | Show 10 entries Search | | | | |
| | MARKETING MARKETING NAME ↑ DOSAGE ↑ STRENGTH ↑ ROUTE ↑ LABELLER ↑ START ↑ END ↑ ↑ ↑ ↑ | | | | |

| | | | | Intralymphatic; Intrauterine | | | | | |
|-------------------------------|-------------------------|--------------|--------|------------------------------|---------|------------|-------------------|------------|--|
| | Lipiodol Ultra Fluid | Liquid | 380 mg | Intracavitary; Parenteral | Guerbet | 1977-12-31 | Not applicable | I+I | |
| | Showing 1 to 2 | of 2 entries | ; | | | | | < 1 > | |
| International/Other Brands | Ethiodol | | | | | | | | |
| Categories | Biological Pro | ducts | | Iodinated Contrast Age | ents | Plant Oils | 5 | | |
| | Complex Mixtures | | | Iodized Oil Plan | | Plant Pre | lant Preparations | | |
| | Contrast Media | | | Lipids | Lipids | | Roentgenography | | |
| | Diagnostic Use | es of Chen | nicals | Oils | | | | | |
| UNII | KZW0R0686Q | | | | | | | | |
| CAS number | 8008-53-5 | | | | | | | | |
| Weight | Not Available | | | | | | | | |
| Chemical Formula | Not Available | | | | | | | | |
| InChI Key | Not Available | | | | | | | | |
| | | | | | | | | | |

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| IUFAC NaIIIE | NUL AVAIIADIE |
|-----------------------|--|
| SMILES | Not Available |
| HARMACOLOGY | |
| Indication | For use as a radio-opaque medium for hysterosalpingography and lymphography, and as an antineoplastic agent when part of the iodine is 131-I. It is also used in follow-up imaging for chemoembolization. |
| Associated Conditions | Hepatocellular,Carcinoma |
| Pharmacodynamics | There has been little detailed investigation of the metabolic fate of ethiodized oil in either man or animals. However, the fate of ethiodized oil following lymphangiography in dogs has been reported. Koehler <i>et al.</i> employed I ¹³¹ -tagged ethiodol for lymphangiography in dogs and analyses of individual organs at various time intervals were done. The investigators reported an average of only 25% of the injected medium was retained in the lymphatics at the end of three days. An average of 50% was recovered from the lungs. They found the remainder of injected activity was fairly uniformly distributed throughout the body. Urinary excretion in the form of inorganic iodine was revealed as the chief mode of iodine loss from the system. |
| Mechanism of action | Ethiodized oil is selectively retained in tumor vessels for long periods, and is used for imaging organs such as liver, lung, stomach, and thyroid. Labeled with I-131 or other beta emitters (Y-90 or P-32), ethiodized oil can deliver a high internal radiation dose to certain tumors with minimal effect on healthy tissues. |

| Protein binding | Not Available | | |
|--------------------------------|--|--------|--|
| Metabolism | Not Available | | |
| Route of elimination | Urinary excretion in the form of inorganic iodine was revealed as the chief mode of iodine loss from the system. | | |
| Half life | Not Available | | |
| Clearance | Not Available | | |
| Toxicity | Intravenous LD50 in dog is 1580mg/kg. Symptoms of overdose include dyspnea and change in clotting factors. | | |
| Affected organisms | Humans and other mammals | | |
| Pathways | Not Available | | |
| Pharmacogenomic Effects/ADRs ① | Not Available | | |
| NTERACTIONS | | | |
| Drug Interactions ① | Show 10 entries | Search | |

| Acetyldigoxin | Acetyldigoxin may decrease the cardiotoxic activities of Ethiodized oil. | Experimental | |
|------------------|--|---|---|
| Aldesleukin | The risk of a hypersensitivity reaction to Ethiodized oil is increased when it is combined with Aldesleukin. | Approved | (|
| Ancestim | The risk or severity of cytotoxicity can be increased when Ancestim is combined with Ethiodized oil. | Approved, Investigational, Withdrawn | |
| Bevacizumab | Bevacizumab may increase the cardiotoxic activities of Ethiodized oil. | Approved, Investigational | |
| Cabazitaxel | The risk or severity of adverse effects can be increased when Cabazitaxel is combined with Ethiodized oil. | Approved | |
| Cyclophosphamide | Cyclophosphamide may increase the cardiotoxic activities of Ethiodized oil. | Approved, Investigational | |
| Cymarin | Cymarin may decrease the cardiotoxic activities of Ethiodized oil. | Experimental | |
| Deslanoside | Deslanoside may decrease the cardiotoxic activities of Ethiodized oil. | Approved | |
| Digitoxin | Digitoxin may decrease the cardiotoxic activities of Ethiodized oil. | Approved, Investigational | |

< 1 2 3 >

Showing 1 to 10 of 23 entries

Food Interactions

Not Available

REFERENCES

General References

- 1. Nelson RC: Techniques for computed tomography of the liver. Radiol Clin North Am. 1991 Nov;29(6):1199-212. [PubMed:1947041]
- 2. Hamm B, Wolf KJ: Contrast material for computed tomography and magnetic resonance imaging of the gastrointestinal tract. Curr Opin Radiol. 1991 Jun;3(3):474-82. [PubMed:1859783]
- 3. Link [Link]

External Links

| ChEMBL | CHEMBL1201458 | |
|-----------|------------------|--|
| PharmGKB | PA164768833 | |
| RxList | RxList Drug Page | |
| Wikipedia | Ethiodized_oil | |

AHFS Codes

36:68.00 — Roentgenography

MSDS

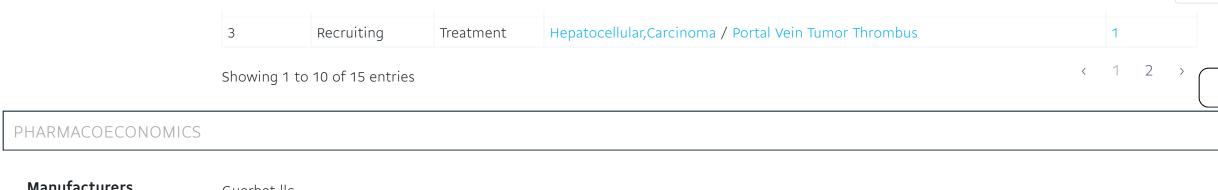
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CLINICAL TRIALS

Clinical Trials (1)

Show 10 entries Search

| PHASE ↑↓ | STATUS ↑↓ | PURPOSE ↑↓ | CONDITIONS ↑↓ | COUNT ↑↓ |
|----------|--------------------------|------------|--|----------|
| 1, 2 | Recruiting | Treatment | Advanced Hepatocellular Carcinoma / Recurrence Hepatocellular Carcinoma | 1 |
| 2 | Active Not Recruiting | Other | Liver Cancer | 1 |
| 2 | Completed | Prevention | Hepatocellular, Carcinoma | 1 |
| 2, 3 | Not Yet Recruiting | Treatment | Hepatocellular, Carcinoma | 1 |
| 2, 3 | Unknown Status | Treatment | Hepatocellular, Carcinoma | 1 |
| 3 | Completed | Treatment | Liver Cancer | 1 |
| 3 | Recruiting | Diagnostic | Infertility, Female | 1 |
| 3 | Recruiting | Treatment | Child-Pugh Class A / Child-Pugh Class B / Recurrent Hepatocellular Carcinoma | 1 |



| Manuracturers | Guerbet IIc | Guerbet IIC | | | | |
|---------------|-------------------|--|----------------|--|--|--|
| Packagers | Not Available | Not Available | | | | |
| Dosage forms | Show 10 | entries | Search | | | |
| | FORM | ↑↓ ROUTE | ↑↓ STRENGTH ↑↓ | | | |
| | Injection | Intra-arterial; Intralymphatic; Intrauterine | 480 mg/mL | | | |
| | Liquid | Intracavitary; Parenteral | 380 mg | | | |
| | Showing 1 to 2 of | 2 entries | < 1 > | | | |
| Prices | Not Available | | | | | |
| | | | | | | |

| - 1 | | | |
|-----|-------------|--|--|
| - 1 | | | |
| - 1 | PROPERTIES | | |
| - 1 | I FNOFLNILS | | |
| - 1 | | | |
| | | | |

Not Available

Patents

| State | Liquid |
|-------|--------|
| | |

| | water solubility | Insoluble | Not Available | |
|--------------------------|------------------|-----------|---------------|--|
| Predicted Properties | Not Available | | | |
| Predicted ADMET features | Not Available | | | |
| SPECTRA | | | | |
| Mass Spec (NIST) | Not Available | | | |
| Spectra | Not Available | | | |
| TAXONOMY | | | | |

Drug created on June 13, 2005 07:24 / Updated on July 13, 2018 01:04

Not classified

Classification

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