

Removing silicone oil quickly using a manual device

Retirada de óleo de silicone de forma rápida com dispositivo manual

Eduardo Morizot^{1,2}, Carlos Alfredo Quiza Escobar^{1,2}

1. Policlínica de Botafogo, Rio de Janeiro, RJ, Brazil.

2. Instituto Benjamin Constant, Rio de Janeiro, RJ, Brazil.

Silicone oil has been used in vitreoretinal surgery as a vitreous substitute in complicated cases of retinal detachment. Due to the complications that can arise when silicone oil remains inside the eyeball, it must be removed within a variable period of time, starting two months after its introduction. Its removal requires a vitrectomy device, which adds to the complexity of the surgery, and can be a slow procedure, depending on the concentration of the oil¹. Here, we propose a means of removing silicone oil quickly, using a manual device.

Using a 10-ml syringe attached to a 3-way tap, we aspirate air by creating a vacuum inside the syringe, which is maintained using the plunger of an insulin syringe. This plunger is placed between the shafts of the 10-ml syringe and is attached to the syringe using micropore tape, to keep the air inside the syringe. A lower temporal 23 g trocar is inserted for infusion, and another upper temporal one, to which the tip of the 3-way tap is attached. The 3-way tap is opened for passive aspiration of the silicone oil. Low-viscous oil can be removed in a few minutes, while more viscous oil takes about 5 minutes.



Corresponding author: Eduardo Morizot. E-mail: dumorizot@gmail.com

Received on: Apr 11, 2023. **Accepted on:** May 25, 2023.

Funding: . **Conflict of interest:** Declaram não haver.

How to cite: Morizot E, Escobar CA. Removing silicone oil quickly using a manual device. eOftalmo. 2023;9(2):54-5.

DOI: [10.17545/eOftalmo/2023.0015](https://doi.org/10.17545/eOftalmo/2023.0015)



This content is licensed under a Creative Commons Attribution 4.0 International License.

REFERENCES

1. Tsui I, Reddy S, Hubschman JP. An Elementary and Effective Method for Silicone oil Removal. Retina. 2010;30(3):524-6.

AUTHOR'S INFORMATION



» **Eduardo Morizot**

<http://lattes.cnpq.br/9803300804939691>

<http://orcid.org/0000-0003-0826-525X>



» **Carlos Alfredo Quiza Escobar**

<https://lattes.cnpq.br/5327424630297675>

<https://orcid.org/0009-0008-6749-5817>