

# CARE IN PEDIATRIC ONCOLOGY



# Care in Pediatric Oncology

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Secretaria  
de Saúde



2024 Patricia Medeiros-Souza

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## CONTENTS

<b>Presentation .....</b>	<b>4</b>
<b>Family Care .....</b>	<b>6</b>
<b>Nutritional Care .....</b>	<b>35</b>
<b>Hand Hygiene.....</b>	<b>55</b>
<b>Dental Care .....</b>	<b>60</b>
<b>Storage of Medications .....</b>	<b>76</b>
<b>Nursing Care: professional .....</b>	<b>80</b>
<b>Nursing Care: patient .....</b>	<b>107</b>
<b>Appropriate Disposal of Medicines .....</b>	<b>119</b>
<b>Vaccines.....</b>	<b>122</b>
<b>Adverse Reaction of Excipients: A Pediatric Approach .....</b>	<b>126</b>
<b>Splitting Antineoplastic Pills.....</b>	<b>153</b>
<b>List of Contributors .....</b>	<b>166</b>



# Storage of Medications

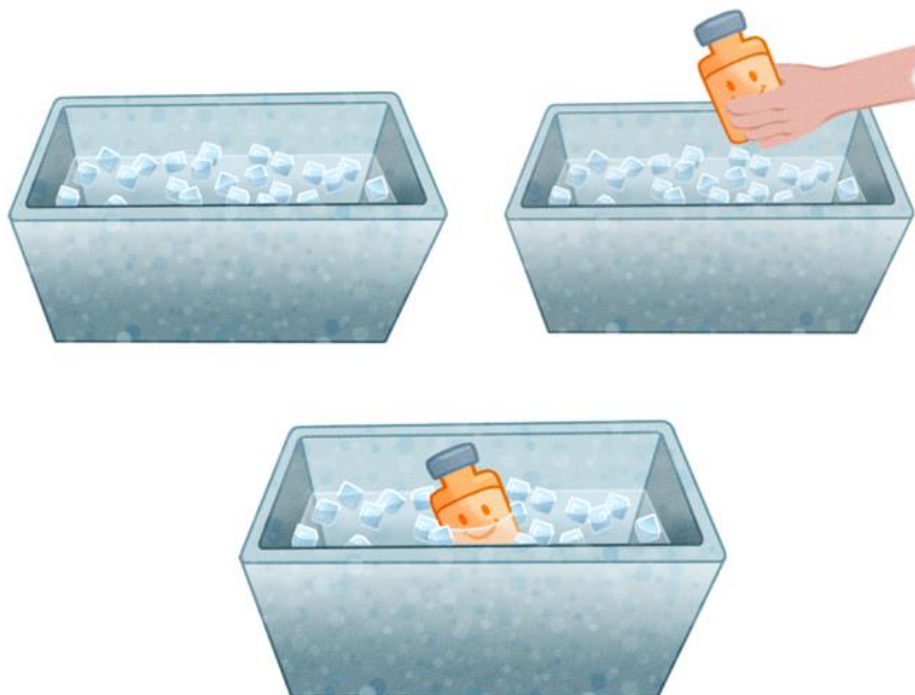
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Ana Catarina Fernandes Figueredo  
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The medication must be stored in its original packaging, in a safe place away from children and animals, cleaning products, perfume, and food, and protected from light, humidity, and heat. Do not store it in a cabinet in the bathroom, on the fridge, or the microwave because the temperature change may spoil the medication (Ministério da Saúde, 2017; Universidade Federal de Minas Gerais, 2021).

Some medications must be stored in the fridge if instructed in the package or leaflet. Some instructions must be followed (Ministério da Saúde, 2017):

- The transportation of the medication must be refrigerated from the hospital to your home in a styrofoam box with ice or *gelox*.



- When you get home, take the medication out of the styrofoam box and put it on a shelf in the fridge with a tag saying, “**Warning! Medication for cancer treatment.**” This is important so we do not run the risk of another person taking the medication.



- The styrofoam box must not be put in the fridge because it isolates the temperature and does not let cold air refrigerate the medication, even if the lid is open. It compromises the effect of the drug. The styrofoam box is used for transportation only and must be cleaned with soap and water or sanitizer after every use.



- Do not leave the medication near the fridge or on the fridge door.
- Do not “cover” the shelves in the fridge with plastic or tissue because it hinders the flow of cold air that refrigerates the medication.



## DO NOT LINE THE FRIDGE!

- In case of a power outage at home, avoid opening the fridge so the cold air inside the refrigerator does not “escape.” If the blackout takes too long, use the styrofoam box with ice to conserve the medication.



**Always read the leaflet that comes in the box of the medications to check the best place to store the medicine.**

## REFERENCES

Ministério da Saúde (BR). Promoção da Saúde. Saiba como usar e armazenar corretamente os medicamentos. Blog da Saúde, 2017 [citado 2021 abr. 8]. Disponível em: <http://www.blog.saude.gov.br/index.php/promocao-da-saude/52435-saiba-como-usar-e-armazenar-corretamente-os-medicamentos>

Universidade Federal de Minas Gerais, Faculdade de Farmácia, Centro de Estudos do Medicamento. Onde guardar os medicamentos? [Internet; citado 2021 abr. 8]. Disponível em: <https://www.farmacia.ufmg.br/onde-guardar-medicamentos/>



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