## DOSING OF LOPINAVIR/РИТОНАВИР FOR CHILDREN 2020

Dosing of LPV/r by formulation & dose modification (RTV super-boosting/double-dose LPV/r) for children receiving rifampicin-containing TB treatment

Compiled by Child and Adolescent Committee of SA HIV Clinicians Society in collaboration with the Department of Health

### Lopinavir/ritonavir (LPV/r)

- **Target dose**: 300/75 mg/m²/dose LPV/r
  - TWICE daily

### Available formulations

- **Solution 80/20 mg/ml**
- **Adult tabs 200/50 mg**
- **Paed tabs 100/25 mg**

**TABLETS MUST BE SWALLOWED WHOLE**

**PILLS MUST NOT BE SWALLOWED WHOLE**

**CAPSULES ARE NOT RECOMMENDED < 6 MONTHS OF AGE**

### Target dose by weight (kg)

<table>
<thead>
<tr>
<th>Weight (kg)</th>
<th>CHOOSE ONLY ONE OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4.9</td>
<td>1 ml bd OR 2 capsules bd</td>
</tr>
<tr>
<td>5-5.9</td>
<td>1.5 ml bd OR 2 capsules bd</td>
</tr>
<tr>
<td>6-9.9</td>
<td>1.5 ml bd OR 3 capsules bd</td>
</tr>
<tr>
<td>10-13.9</td>
<td>2 ml bd OR 4 capsules bd OR 2 x 100/25 mg paed tabs am + 1 x 100/25 mg paed tab pm</td>
</tr>
<tr>
<td>14-19.9</td>
<td>2.5 ml bd OR 5 capsules bd OR 2 x 100/25 mg paed tabs bd OR 1 x 200/50 mg adult tab bd</td>
</tr>
<tr>
<td>20-24.9</td>
<td>3 ml bd OR 6 capsules bd OR 2 x 100/25 mg paed tabs bd OR 1 x 200/50 mg adult tab bd</td>
</tr>
<tr>
<td>25-29.9</td>
<td>3.5 ml bd OR 7 capsules bd OR 3 x 100/25 mg paed tabs bd OR 1 x 200/50 mg adult tab bd + 1 x 100/25 mg paed tab bd</td>
</tr>
<tr>
<td>≥ 30</td>
<td>5 ml bd OR 10 capsules bd OR 4 x 100/25 mg paed tabs bd OR 2 x 200/50 mg adult tabs bd</td>
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</tbody>
</table>

### Lopinavir/ritonavir (LPV/r) when on rifampicin (and for 2 weeks after stopping rifampicin)

**CHOOSE ONLY ONE OPTION**

- **LPV/r std dose + super-boosting with ritonavir (RTV) powder TWICE daily**
  - (≥0.75 x LPV dose bd)

- **Double-dose LPV/r tabs ONLY if able to swallow whole LPV/r tabs TWICE daily**

  | Adult tabs 200/50 mg |
  | Paed tabs 100/25 mg |

- **LPV/r std dose (see purple column)**
  - + oral ritonavir powder
  - 100 mg / packet

- **Do not use double-dose LPV/r tabs**

- **LPV/r std dose + oral ritonavir powder**
  - 100 mg (1 packet) bd

- **3 x 100/25 mg paed tabs bd**

- **LPV/r std dose + oral ritonavir powder**
  - 200 mg (2 packets) bd

- **4 x 100/25 mg paed tabs bd OR 2 x 200/50 mg adult tabs bd**

- **LPV/r std dose + oral ritonavir powder**
  - 300 mg (3 packets) bd

- **6 x 100/25 mg paed tabs bd OR 3 x 200/50 mg adult tabs bd**

- **LPV/r std dose + oral ritonavir powder**
  - 400 mg (4 packets) bd

- **8 x 100/25 mg paed tabs bd OR 4 x 200/50 mg adult tabs bd**
How to open LPV/r oral pellets

Oral pellets come in capsules and there are 120 capsules per bottle. The pellets inside the capsule are white in colour.

How to administer LPV/r oral pellets with soft food

Oral pellets **CANNOT** be stirred, dissolved or crushed in soft foods prior to administration. The pellets **must not be chewed** as they will develop a bad taste.

**Step 1: Prepare food to give with pellets**

1. Pour pellets onto a **teaspoon**, then pour food over pellets.
2. Pour food onto a **teaspoon**, then sprinkle pellets over food.

**OR**

**Step 2: Feed the mixture to the child**

- Do not stir the pellets with the food, make sure you can still see them.
- **TIP:** give pellets with food that the child prefers to take & will swallow without chewing (e.g. porridge, yoghurt, mashed potato).

**Step 3: Pour**

Pour all pellets into a teaspoon

**NOTE:** the capsule must **never be swallowed whole**. Throw the capsule casing away after the pellets have been emptied from it.

More tips

- Oral pellets must be given **twice a day**, once in the **morning** and once at **night**
- Ensure child swallows **all** the pellets. Give **1 or 2 capsules of pellets at a time** otherwise the amount of pellets may be too much for child to swallow at once

**NEED HELP?**

Contact the TOLL-FREE National HIV & TB Health Care Worker Hotline

0800 212 506 /021 406 6782

Alternatively “WhatsApp” or send an SMS or “Please Call Me” to 071 840 1572

www.mic.uct.ac.za