Nystatin Oral Suspension Shortage

Suppliers of 100,000 U/ml nystatin suspension in Canada.¹

<table>
<thead>
<tr>
<th>DIN</th>
<th>Brand Name</th>
<th>Manufacturer</th>
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<tbody>
<tr>
<td>02433443</td>
<td>Jamp-Nystatin Susp</td>
<td>JPC</td>
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<tr>
<td>00792667</td>
<td>PMS-Nystatin</td>
<td>PMS</td>
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<tr>
<td>02125145</td>
<td>DOM-Nystatin</td>
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<td>02194201</td>
<td>Ratio-Nystatin</td>
<td>RPH</td>
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Indications for nystatin suspension²:
- Treatment of infections of the mouth (thrush) and gastrointestinal tract caused by *C. albicans*, including oropharyngeal candidiasis in patients with HIV infection

Nystatin alternatives:
- Refer to compounding pharmacy.
- While extemporaneous suspensions have been described in the literature,³,⁴ details of compounding are not provided and uncommon ingredients are required (e.g. carboxymethyl cellulose, tragacanth)³ and/or make the product unsuitable for infants (e.g. mint essential oil, parabens).⁴

Therapeutic alternatives:
- Unfortunately, there are no ideal alternatives, especially for infants.
- Consider treating nipple (topical clotrimazole, miconazole, nystatin) simultaneously with treatment of oropharyngeal candidiasis in breastfeeding infants.⁸
  - Fluconazole (for non-HIV patients)
    - Oropharyngeal candidiasis:
      - 3 mg/kg/day PO once daily (max dose 200 mg)²,⁵,⁶,⁸
      - Adults: 100-200mg PO once daily²,⁶-¹¹
      - Duration: 7-14 days²,⁶-¹⁰
      - Loading doses of twice the daily dose can be given on day 1⁶,⁸
    - Esophageal candidiasis:
      - Few references provide pediatric dosing:
        Pediatrics: 3-6 mg/kg/day PO once daily² or 6 mg/kg on Day 1, then 3 mg/kg/day PO once daily⁶
        Adults: 100-200-400 mg PO once daily²,⁶-¹¹
      - Loading doses of twice the daily dose (up to 400 mg) can be given on day 1⁶,¹⁰,¹¹
      - Treat ≥21 days and ≥ 14 days after symptom resolution²,⁶,¹⁰
- Efficacy of fluconazole for oropharyngeal candidiasis has been established in infants 6 months and older\(^2\)
- Safety of fluconazole in other indications has been established in infants as young as 1 day\(^2\)
  - Gentian violet 1\(^\%\)^\(^{7,8,12}\)
    - may cause mucosal irritation, ulceration, staining\(^{8,12}\)
  - Clotrimazole lozenge 100 mg PO once daily x 7-14 days for older children and adults\(^{7,11}\)
    - from compounding pharmacy
    - can use vaginal insert\(^7\), though likely not very palatable

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References: