

Pratt Pouch Ecuador Kit

Product Summary

Last Updated: December 2014

The Pratt Pouch ARV distribution process has been fully adopted for use at Hospital Gineco-Obstetrico Enrique C. Sotomayor ("La Maternidad") in Guayaquil, Ecuador. With an average of 80 births per day, La Maternidad is the second largest maternity hospital in South America and sees the vast majority of HIV-at-risk births in Ecuador.

REGIMENT

La Maternidad currently provides a thirty day supply of Pratt Pouches to all HIV+ mothers who deliver at their facility. Depending on the doctor's prescription, this can include one, two or three medications each taken once or twice per day. Thus, each mother can receive from 60 to 132 pouches filled with either: Zidovudine ("AZT"), Nevirapine (NVP) or Lamivudine ("3TC"). All pouches are supplied to the mother with printed instructions and a plastic box (one per medication), supplied by the hospital. Pouches for days 1-4 are administered at the hospital.

- Mothers who received antenatal antiretroviral therapy are given **60 individual AZT** filled pouches. Mothers administer one pouch every 12 hours (twice daily).
- Mothers who did not receive antenatal antiretroviral therapy are given **60x AZT, 60x 3TC and 12x NVP** filled pouches for their infant. Mothers administer one AZT and one 3TC pouch every 12 hours (twice daily). One pouch of NVP is administered on the day of birth; the remaining 11 are administered on days 5-15 together with AZT and 3TC.

FILLING

The pharmacy staff fill pouches one bottle at a time i.e. pouches are filled until the bottle is empty. For all medications and all volumes, the pharmacist uses the same pouch type. The pharmacist uses the syringe-and-tip approach to meter and fill the pouches. The small, recommended heat sealer (TEWTISH105) is used to heat seal the filled pouches which are labelled with labels printed locally in three colors, depending on the medication.

The amount of medication that is contained in the pouch is dependent on the birth weight of the infant. Pouches are overfilled by about 10% to account for minor spillage. A previous study revealed that this method results allows an average of 101% medication to be administered by mothers. Standard dosing, dependent on child birth weight, is as follows:

- AZT: 4mg/kg
- 3TC: 2mg/kg
- NVP (Day 1 dose): 2mg/kg
- NVP (Day 5-15 dose): 4mg/kg

POUCH BOTTLE KIT

We recommend the following product contents for serving La Maternidad's needs. Each box kit contains the recommended supplies for one 240ml bottle of medication and includes a backup syringe. The calculation is conservative and based on the dosing regimen for a 2kg (low birth weight) newborn. Pouches are overfilled by about 10%. To avoid smudging, custom label printing will need to be provided on an inkjet laser printer.

For AZT, each box kit would contain:

266 pouches, 266 labels, 2 syringes, 2 syringe tips, 5 mother instructions

For 3TC, each box kit would contain:

480 pouches, 480 labels, 2 syringes, 2 syringe tips, 8 mother instructions

For NVP, each box kit would contain:

276 pouches, 276 labels, 2 syringes, 2 syringe tips, 23 mother instructions

FUNDACIÓN VIHDA

La Maternidad's prevention of mother-to-child (PMTCT) efforts are supported by the non-profit Fundación VIHDA (www.vihda.org.ec) who will be responsible for purchasing all Pratt Pouch supplies starting in June of 2015. Fundación VIHDA has been overseeing and coordinating the Pratt Pouch implementation since June 2013, and currently have enough supplies to last until June 2015. These supplies were provided free-of-charge as part of an ongoing study by DHT Lab (Duke University). Fundación VIHDA performs following duties with regards to the Pratt pouch distribution process:

- Acquire and store pouches, syringes, tips and labels at their main office
- Print labels according to pharmacist's request
- Provide pharmacist with supplies upon request

MATERIAL SOURCING

The following table gives additional information for each product.

Name	Supplier	Supplier Cat. Number	Unit Price	Units/ package
Pratt Pouches	FlexPak	-	\$0.11	50,000
Slip Tip Syringe (A3)	General Laboratory Supplies	S8221-3	\$0.11	100
Syringe Slip Tip (14G x 1 ¼" DHUV)	OKInternational	TT14-DHUV-PK	\$0.43	50
Laser Inkjet Label (3/4 x 1")	Gaylord	341L	<\$0.01	2450