

ANNEX A – ANTIRETROVIRAL PRICES

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The tables contained in Appendix A report prices for individual antiretroviral drugs and for selected triple-drug antiretroviral therapies.

Tables A-1 through A-4 present VAT-inclusive wholesale prices in the private sector charged to pharmacies. Historical prices taken from the Pharmaceutical Blue Book were provided by Andrew Gray, Senior Lecturer at the University of Natal Nelson R. Mandela School of Medicine. Prices are shown over seven time periods from December 2000 to July 2003, and prices are presented for a “Pack” (30-day supply)<sup>1</sup>, daily supply, and yearly supply of medicine. The data is also presented in US dollars according to the average exchange rate for the month to which the price quote applied. Exchange rates were taken from the historical database maintained by OANDA, Inc.

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Eight antiretroviral drugs are included: zidovudine (AZT), lamivudine (3TC), combivir (AZT+3TC), didanosine (ddl), stavudine (d4T), nevirapine, efavirenz, and nelfinavir. In addition, four triple-drug therapies are included: d4T+3TC+nevirapine, AZT+3TC+nevirapine, AZT+3TC+efavirenz, and AZT+3TC+nelfinavir. In the three regimens containing AZT+3TC, the price for combivir – not that of each drug individually – is added to the third drug.

The nucleoside reverse transcriptase inhibitors in the tables are sold by GlaxoSmithKline and Bristol Myers Squibb. Since the end of year 2000, the private-sector prices charged by GSK for Combivir and 3TC have fallen 20%, and price for AZT has not changed. The prices for Bristol-Myers Squibb’s ddl and d4T have fallen 55% and 96%, respectively.

The two non-nucleoside reverse transcriptase inhibitors are sold by Boehringer-Ingelheim and Merck. Boehringer-Ingelheim’s private sector price for nevirapine fell 68% between December 2000 and February 2001, and has not

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<sup>1</sup> A “pack” of didanosine contains enough of the drug for a 15 day supply. Therefore, the tables presented in this report give the price for a 30-day supply, which amounts to one “pack” of each drug except for didanosine, for which the price of two “packs” is given.

<sup>2</sup> [REDACTED]

changed since then. Shortly after this price cut, Merck lowered the price of efavirenz by 75%. In both cases, the private sector prices leveled off after a one-time steep price cut.

Tables A-5 through A-8 show the best global price offered to the public sector for each of the drugs and triple-drug-therapies described above. (With the exception of nelfinavir, the best prices are offered by generic firms.) The data comes from the four issues of "Untangling the Web of Price Reductions: A Pricing Guide for the Purchase of ARVs for Developing Countries," editions 1 through 4, published by Medecins Sans Frontieres. Prices are shown over four time periods from October 2001 to May 2003. The original data listed prices as the cost of a drug per patient per year in U.S. dollars. These yearly prices were calculated into daily and monthly prices. The conversion to rand was then made based on monthly exchange rates taken from the OANDA, Inc. database.

The best global public sector prices are considerably lower than the private sector prices, and they fall over time as well. For nucleoside reverse transcriptase inhibitors, the price for generic versions of GlaxoSmithKline's AZT, 3TC and Combivir fell 27%, 28% and 29%, respectively, while the price for generic versions of Bristol-Myers Squibb's ddI and d4T fell 3% and 30%, respectively. For generic non-nucleoside reverse transcriptase inhibitors, the price of nevirapine fell 30% and the price of efavirenz fell 10%.

The best global public sector prices of the triple-drug therapies vary substantially from one to another. The lowest cost therapy (d4T+3TC+nevirapine), is 53% the price of the second-lowest (AZT+3TC+nevirapine), and 19% the price of the highest (AZT+3TC+nelfinavir).

Table A-9 presents the best world public-sector price offered by branded pharmaceutical manufacturers and the lowest prices offered by any manufacturer, branded or generic. Prices in this table are taken from the fourth edition of "Untangling the Web of Price Reductions: A Pricing Guide for the Purchase of ARVs for Developing Countries," by Medecins San Frontieres, which gives prices for May 2003. Aurobino sells AZT and AZT+3TC for 51% and 62% of the GSK price, respectively. Hetero sells 3TC for 51% of the GSK price, and it sells nevirapine for 24% of the Boehringer-Ingelheim price.

The private sector prices used in this annex were those found in the Pharmaceutical Blue Book, which is published by

Over the time period covered, exchange rates were highly volatile, ranging from 7.524 to 11.446. The tables in which prices have been converted from the original currency to the other currency are highly effected by the changes in the exchange rates.

REDACTED VERSION

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TABLE A-1 Wholesale private sector prices of single drugs charged to pharmacies by branded pharmaceutical companies, VAT-included, in US Dollars\*

| DAY        |              | Formulation | Quantity | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|------------|--------------|-------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AZT        | 300mg        | 2 Tabs      |          |               |               |               | 1.93          | 2.20          | 2.14          | 2.94          |
| 3TC        | 150mg        | 2 Tabs      |          | 3.98          | 3.89          | 3.52          | 2.13          | 2.42          | 2.36          | 3.23          |
| AZT+3TC    | 300 + 150 mg | 2 Tabs      |          | 4.98          | 4.86          | 4.40          | 2.66          | 3.02          | 2.95          | 4.04          |
| Didanosine | 200mg        | 4 Tabs      |          | 2.53          | 2.47          | 0.92          | 1.09          | 1.02          | 1.05          | 1.16          |
| Stavudine  | 40 mg        | 2 Tabs      |          | 4.56          | 4.45          | 0.16          | 0.19          | 0.19          | 0.18          | 0.20          |
| Nevirapine | 200mg        | 2 Tabs      |          | 5.55          | 1.75          | 1.58          | 1.20          | 1.36          | 1.33          | 1.82          |
| Efavirenz  | 200mg        | 3 Tabs      |          | 6.37          | 6.21          | 1.43          | 1.07          | 1.47          | 1.43          | 1.62          |
| Nelfinavir | 250mg        | 9 Tabs      |          | 9.86          | 9.63          | 8.72          | 6.57          | 8.89          | 8.67          | 3.44          |

| MONTH      |              | Formulation   | Quantity | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|------------|--------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AZT        | 300mg        | 60 Tabs       |          |               |               |               | 57.98         | 65.92         | 64.32         | 88.20         |
| 3TC        | 150mg        | 60 Tabs       |          | 119.55        | 116.69        | 105.68        | 63.75         | 72.51         | 70.76         | 97.02         |
| AZT+3TC    | 300 + 150 mg | 60 Tabs       |          | 149.44        | 145.86        | 132.10        | 79.68         | 90.59         | 88.40         | 121.21        |
| Didanosine | 200mg        | 2 Packs of 60 |          | 76.04         | 74.22         | 27.62         | 32.10         | 30.61         | 31.36         | 34.81         |
| Stavudine  | 40 mg        | 60 Tabs       |          | 136.83        | 133.55        | 4.88          | 5.65          | 5.40          | 5.54          | 6.14          |
| Nevirapine | 200mg        | 60 Tabs       |          | 166.39        | 52.51         | 47.58         | 35.86         | 40.77         | 39.78         | 54.55         |
| Efavirenz  | 200mg        | 90 Tabs       |          | 190.99        | 186.41        | 42.74         | 32.23         | 43.96         | 42.90         | 48.51         |
| Nelfinavir | 250mg        | 270 Tabs      |          | 295.90        | 288.81        | 261.56        | 197.21        | 266.56        | 260.12        | 103.31        |

| YEAR       |              | Formulation | Quantity | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|------------|--------------|-------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AZT        | 300mg        | 730 Tabs    |          |               |               |               | 704.45        | 803.00        | 781.10        | 1073.10       |
| 3TC        | 150mg        | 730 Tabs    |          | 1452.70       | 1419.85       | 1284.80       | 777.45        | 883.30        | 861.40        | 1178.95       |
| AZT+3TC    | 300 + 150 mg | 730 Tabs    |          | 1817.70       | 1773.90       | 1606.00       | 970.90        | 1102.30       | 1076.75       | 1474.60       |
| Didanosine | 200mg        | 1460 Tabs   |          | 924.90        | 902.74        | 336.25        | 397.67        | 372.34        | 381.74        | 423.51        |
| Stavudine  | 40 mg        | 730 Tabs    |          | 1664.63       | 1624.75       | 59.21         | 68.56         | 65.62         | 67.22         | 74.71         |
| Nevirapine | 200mg        | 730 Tabs    |          | 2025.75       | 638.75        | 576.70        | 438.00        | 496.40        | 485.45        | 664.30        |
| Efavirenz  | 200mg        | 1095 Tabs   |          | 2323.49       | 2267.84       | 520.24        | 392.25        | 534.77        | 521.84        | 590.39        |
| Nelfinavir | 250mg        | 3285 Tabs   |          | 3600.07       | 3513.84       | 3182.37       | 2399.41       | 3243.05       | 3164.69       | 1256.95       |

TABLE A-2 Wholesale private sector prices of triple-drug therapies charged to pharmacies by branded pharmaceutical companies, VAT-included, in US Dollars\*

| DAY                 | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 14.09         | 10.09         | 5.26          | 3.52          | 3.97          | 3.87          | 5.25          |
| Combivir+nevirapine | 10.53         | 6.61          | 5.98          | 3.86          | 4.38          | 4.28          | 5.86          |
| Combivir+Efavirenz  | 11.35         | 11.07         | 5.83          | 3.73          | 4.49          | 4.38          | 5.66          |
| Combivir+Nelfinavir | 14.84         | 14.49         | 13.12         | 9.23          | 11.91         | 11.62         | 7.48          |

| MONTH               | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 422.77        | 302.75        | 158.14        | 105.26        | 118.68        | 116.08        | 157.71        |
| Combivir+nevirapine | 315.83        | 198.37        | 179.68        | 115.54        | 131.36        | 128.18        | 175.76        |
| Combivir+Efavirenz  | 340.43        | 332.27        | 174.84        | 111.91        | 134.55        | 131.30        | 169.72        |
| Combivir+Nelfinavir | 445.34        | 434.67        | 393.66        | 276.89        | 357.15        | 348.52        | 224.52        |

| Year                | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 5143.08       | 3683.35       | 1920.71       | 1284.01       | 1445.32       | 1414.07       | 1917.96       |
| Combivir+nevirapine | 3843.45       | 2412.65       | 2182.70       | 1408.90       | 1598.70       | 1562.20       | 2138.90       |
| Combivir+Efavirenz  | 4141.19       | 4041.74       | 2126.24       | 1363.15       | 1637.07       | 1598.59       | 2064.99       |
| Combivir+Nelfinavir | 5417.77       | 5287.74       | 4788.37       | 3370.31       | 4345.35       | 4241.44       | 2731.55       |

For dosage and quantity required of each drug in cocktail, see the price charts for individual drugs.

TABLE A-3 Wholesale private sector prices of single drugs charged to pharmacies by branded pharmaceutical companies, VAT-included, in South African Rand\*

| DAY | Drug       | Formulation  | Quantity | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|-----|------------|--------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|     | AZT        | 300mg        | 2 Tabs   |               |               |               | 22.12         | 22.12         | 22.12         | 22.12         |
|     | 3TC        | 150mg        | 2 Tabs   | 30.40         | 30.40         | 30.40         | 24.32         | 24.33         | 24.33         | 24.33         |
|     | AZT+3TC    | 300 + 150 mg | 2 Tabs   | 38.00         | 38.00         | 38.00         | 30.40         | 30.40         | 30.40         | 30.40         |
|     | Didanosine | 100mg        | 4 Tabs   | 19.33         | 19.33         | 7.95          | 12.47         | 10.27         | 10.79         | 8.73          |
|     | Stavudine  | 40mg         | 2 Tabs   | 34.79         | 34.79         | 1.40          | 2.15          | 1.81          | 1.90          | 1.54          |
|     | Nevirapine | 200mg        | 2 Tabs   | 42.31         | 13.68         | 13.68         | 13.68         | 13.68         | 13.68         | 13.68         |
|     | Efavirenz  | 200mg        | 3 Tabs   | 48.56         | 48.56         | 12.30         | 12.30         | 14.75         | 14.75         | 12.17         |
|     | Nelfinavir | 250mg        | 9 Tabs   | 75.24         | 75.24         | 75.24         | 75.24         | 89.45         | 89.45         | 25.91         |

MONTH

| Drug       | Formulation  | Quantity      | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AZT        | 300mg        | 60 Tabs       |               |               |               | 663.62        | 663.62        | 663.62        | 663.62        |
| 3TC        | 150mg        | 60 Tabs       | 912.00        | 912.00        | 912.00        | 729.60        | 730.00        | 730.00        | 730.00        |
| AZT+3TC    | 300 + 150 mg | 60 Tabs       | 1140.00       | 1140.00       | 1140.00       | 912.00        | 912.00        | 912.00        | 912.00        |
| Didanosine | 100mg        | 2 Packs of 60 | 580.04        | 580.04        | 238.38        | 367.40        | 308.16        | 323.56        | 261.90        |
| Stavudine  | 40mg         | 60 Tabs       | 1043.78       | 1043.78       | 42.07         | 64.63         | 54.38         | 57.11         | 46.22         |
| Nevirapine | 200mg        | 60 Tabs       | 1269.30       | 410.40        | 410.40        | 410.40        | 410.40        | 410.40        | 410.40        |
| Efavirenz  | 200mg        | 90 Tabs       | 1456.92       | 1456.92       | 368.85        | 368.85        | 442.61        | 442.61        | 365.00        |
| Nelfinavir | 250mg        | 270 Tabs      | 2257.20       | 2257.20       | 2257.20       | 2257.20       | 2683.56       | 2683.56       | 777.29        |

YEAR

| Drug       | Formulation  | Quantity  | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|------------|--------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AZT        | 300mg        | 730 Tabs  |               |               |               | 8073.80       | 8073.80       | 8073.80       | 8073.80       |
| 3TC        | 150mg        | 730 Tabs  | 11069.00      | 11069.00      | 11069.00      | 8876.80       | 8880.45       | 8880.45       | 8880.45       |
| AZT+3TC    | 300 + 150 mg | 730 Tabs  | 13870.00      | 13870.00      | 13870.00      | 13870.00      | 11096.00      | 11096.00      | 11096.00      |
| Didanosine | 100mg        | 1460 Tabs | 7055.45       | 7055.45       | 2901.75       | 4551.55       | 3748.55       | 3938.35       | 3186.45       |
| Stavudine  | 40mg         | 730 Tabs  | 12698.35      | 12698.35      | 511.00        | 784.75        | 660.65        | 693.50        | 562.10        |
| Nevirapine | 200mg        | 730 Tabs  | 15443.15      | 4993.20       | 4993.20       | 4993.20       | 4993.20       | 4993.20       | 4993.20       |
| Efavirenz  | 200mg        | 1095 Tabs | 17724.40      | 17724.40      | 4489.50       | 4489.50       | 5383.75       | 5383.75       | 4442.05       |
| Nelfinavir | 250mg        | 3285 Tabs | 27462.60      | 27462.60      | 27462.60      | 27462.60      | 32649.25      | 32649.25      | 9457.15       |

TABLE A-4 Wholesale private sector prices of triple-drug therapies charged to pharmacies by branded pharmaceutical companies, VAT-included, in South African Rand\*

| DAY                 | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 107.50        | 78.87         | 45.48         | 40.15         | 39.82         | 39.91         | 39.55         |
| Combivir+nevirapine | 80.31         | 51.68         | 51.68         | 44.08         | 44.08         | 44.08         | 44.08         |
| Combivir+Efavirenz  | 86.56         | 86.56         | 50.30         | 42.70         | 45.15         | 45.15         | 42.57         |
| Combivir+Nelfinavir | 113.24        | 113.24        | 113.24        | 105.64        | 119.85        | 119.85        | 25.91         |

| MONTH               | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 3225.08       | 2366.18       | 1364.47       | 1204.63       | 1194.78       | 1197.51       | 1186.62       |
| Combivir+nevirapine | 13838.30      | 1550.40       | 1550.40       | 1322.40       | 1322.40       | 1322.40       | 1322.40       |
| Combivir+Efavirenz  | 2596.92       | 2596.92       | 1508.85       | 1280.85       | 1354.61       | 1354.61       | 1277.00       |
| Combivir+Nelfinavir | 3397.20       | 3397.20       | 3397.20       | 3169.20       | 3595.56       | 3595.56       | 1689.29       |

| Year                | Price - 12/00 | Price - 02/01 | Price - 09/01 | Price - 02/02 | Price - 07/02 | Price - 10/02 | Price - 07/03 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Cocktail</b>     |               |               |               |               |               |               |               |
| d4T+3TC+nevirapine  | 39210.50      | 28760.55      | 16573.20      | 14654.75      | 14534.30      | 14567.15      | 14435.75      |
| Combivir+nevirapine | 29313.15      | 18863.20      | 18863.20      | 16089.20      | 16089.20      | 16089.20      | 16089.20      |
| Combivir+Efavirenz  | 31594.40      | 31594.40      | 18359.50      | 15585.50      | 16479.75      | 16479.75      | 15538.05      |
| Combivir+Nelfinavir | 41332.60      | 41332.60      | 41332.60      | 38558.60      | 43745.25      | 43745.25      | 20553.15      |

For dosage and quantity required of each drug in cocktail, see the price charts for individual drugs.

TABLE A-5 Best world price (generic or branded) available to the South African public sector for single drugs, in US Dollars\*\*

| DAY | Drug       | Dosage    | Quantity | Oct-01 | Jun-02 | Dec-02 | May-03 |
|-----|------------|-----------|----------|--------|--------|--------|--------|
|     | AZT        | 300mg     | 2 Tabs   | 0.53   | 0.38   | 0.38   | 0.38   |
|     | 3TC        | 150mg     | 2 Tabs   | 0.25   | 0.18   | 0.18   | 0.18   |
|     | AZT+3TC    | 300+150mg | 2 Tabs   | 0.78   | 0.56   | 0.56   | 0.56   |
|     | Didanosine | 100mg     | 4 Tabs   | 0.52   | 0.54   | 0.51   | 0.51   |
|     | Stavudine  | 40mg      | 2 Tabs   | 0.12   | 0.08   | 0.08   | 0.08   |
|     | Nevirapine | 200mg     | 2 Tabs   | 0.41   | 0.31   | 0.29   | 0.29   |
|     | Efavirenz  | 200mg     | 3 Tabs   | 1.33   | 1.20   | 1.20   | 1.20   |
|     | Nelfinavir | 250mg     | 9 Tabs   | 8.01   | 4.20   | 4.11   | 2.41   |

| MONTH | Drug       | Dosage    | Quantity      | Oct-01 | Jun-02 | Dec-02 | May-03 |
|-------|------------|-----------|---------------|--------|--------|--------|--------|
|       | AZT        | 300mg     | 60 Tabs       | 15.90  | 11.40  | 11.40  | 11.40  |
|       | 3TC        | 150mg     | 60 Tabs       | 7.50   | 5.40   | 5.40   | 5.40   |
|       | AZT+3TC    | 300+150mg | 60 Tabs       | 23.40  | 16.80  | 16.80  | 16.80  |
|       | Didanosine | 100mg     | 2 Packs of 60 | 15.60  | 16.20  | 15.30  | 15.30  |
|       | Stavudine  | 40mg      | 60 Tabs       | 3.60   | 2.40   | 2.40   | 2.55   |
|       | Nevirapine | 200mg     | 60 Tabs       | 12.30  | 9.30   | 8.70   | 8.70   |
|       | Efavirenz  | 200mg     | 90 Tabs       | 39.90  | 36.00  | 36.00  | 36.00  |
|       | Nelfinavir | 250mg     | 270 Tabs      | 240.30 | 126.00 | 123.30 | 72.30  |

| YEAR | Drug       | Dosage    | Quantity  | Oct-01  | Jun-02  | Dec-02  | May-03 |
|------|------------|-----------|-----------|---------|---------|---------|--------|
|      | AZT        | 300mg     | 730 Tabs  | 193.00  | 140.00  | 140.00  | 140.00 |
|      | 3TC        | 150mg     | 730 Tabs  | 91.00   | 66.00   | 65.00   | 65.00  |
|      | AZT+3TC    | 300+150mg | 730 Tabs  | 285.00  | 204.00  | 204.00  | 204.00 |
|      | Didanosine | 100mg     | 1460 Tabs | 190.00  | 197.00  | 185.00  | 185.00 |
|      | Stavudine  | 40mg      | 730 Tabs  | 44.00   | 31.00   | 31.00   | 31.00  |
|      | Nevirapine | 200mg     | 730 Tabs  | 150.00  | 112.00  | 105.00  | 105.00 |
|      | Efavirenz  | 200mg     | 1095 Tabs | 485.00  | 438.00  | 438.00  | 438.00 |
|      | Nelfinavir | 250mg     | 3285 Tabs | 2924.00 | 1533.00 | 1500.00 | 880.00 |

TABLE A-6 Best world price (generic or branded) available to the South African public sector for triple-drug therapies, in US Dollars\*\*

| DAY                 |  | Oct-01 | Jun-02 | Dec-02 | May-03 |
|---------------------|--|--------|--------|--------|--------|
| <b>Cocktail</b>     |  |        |        |        |        |
| d4T+3TC+nevirapine  |  | 0.81   | 0.57   | 0.55   | 0.55   |
| Combivir+nevirapine |  | 1.19   | 1.15   | 1.05   | 1.05   |
| Combivir+Efavirenz  |  | 2.11   | 1.76   | 1.76   | 1.76   |
| Combivir+Nelfinavir |  | 8.79   | 4.76   | 4.67   | 2.97   |

| MONTH               |  | Oct-01 | Jun-02 | Dec-02 | May-03 |
|---------------------|--|--------|--------|--------|--------|
| <b>Cocktail</b>     |  |        |        |        |        |
| d4T+3TC+nevirapine  |  | 24.30  | 17.10  | 16.65  | 16.65  |
| Combivir+nevirapine |  | 35.70  | 34.50  | 31.50  | 31.50  |
| Combivir+Efavirenz  |  | 63.30  | 52.80  | 52.80  | 52.80  |
| Combivir+Nelfinavir |  | 263.70 | 142.80 | 140.10 | 89.10  |

| Year                |  | Oct-01  | Jun-02  | Dec-02  | May-03  |
|---------------------|--|---------|---------|---------|---------|
| <b>Cocktail</b>     |  |         |         |         |         |
| d4T+3TC+nevirapine  |  | 295.00  | 209.00  | 201.00  | 201.00  |
| Combivir+nevirapine |  | 435.00  | 419.00  | 383.00  | 383.00  |
| Combivir+Efavirenz  |  | 770.00  | 642.00  | 642.00  | 642.00  |
| Combivir+Nelfinavir |  | 3209.00 | 1737.00 | 1704.00 | 1084.00 |

For dosage and quantity required of each drug in cocktail, see the price charts for individual drugs.

TABLE A-7 Best world price (generic or branded) available to the South African public sector for single drugs, in South African Rand\*\*

| DAY | Drug       | Dosage    | Quantity | Oct-01 | Jun-02 | Dec-02 | May-03 |
|-----|------------|-----------|----------|--------|--------|--------|--------|
|     | AZT        | 300mg     | 2 Tabs   | 4.91   | 3.87   | 3.41   | 2.90   |
|     | 3TC        | 150mg     | 2 Tabs   | 2.31   | 1.83   | 1.62   | 1.38   |
|     | AZT+3TC    | 300+150mg | 2 Tabs   | 7.22   | 5.70   | 5.03   | 4.28   |
|     | Didanosine | 100mg     | 4 Tabs   | 4.81   | 5.49   | 4.58   | 3.90   |
|     | Stavudine  | 40mg      | 2 Tabs   | 1.11   | 0.81   | 0.72   | 0.61   |
|     | Nevirapine | 200mg     | 2 Tabs   | 3.80   | 3.15   | 2.60   | 2.22   |
|     | Efavirenz  | 200mg     | 3 Tabs   | 12.31  | 12.21  | 10.77  | 9.17   |
|     | Nelfinavir | 250mg     | 9 Tabs   | 74.15  | 42.72  | 36.89  | 18.41  |

| MONTH | Drug       | Dosage    | Quantity      | Oct-01  | Jun-02  | Dec-02  | May-03 |
|-------|------------|-----------|---------------|---------|---------|---------|--------|
|       | AZT        | 300mg     | 60 Tabs       | 147.20  | 115.96  | 102.31  | 87.09  |
|       | 3TC        | 150mg     | 60 Tabs       | 69.43   | 54.93   | 48.46   | 41.25  |
|       | AZT+3TC    | 300+150mg | 60 Tabs       | 216.63  | 170.90  | 150.78  | 128.34 |
|       | Didanosine | 100mg     | 2 Packs of 60 | 144.42  | 164.79  | 137.32  | 116.88 |
|       | Stavudine  | 40mg      | 60 Tabs       | 33.33   | 24.41   | 21.54   | 19.48  |
|       | Nevirapine | 200mg     | 60 Tabs       | 113.87  | 94.60   | 78.08   | 66.46  |
|       | Efavirenz  | 200mg     | 90 Tabs       | 369.38  | 366.20  | 323.09  | 275.01 |
|       | Nelfinavir | 250mg     | 270 Tabs      | 2224.63 | 1281.71 | 1106.60 | 552.31 |

| YEAR | Drug       | Dosage    | Quantity  | Oct-01     | Jun-02   | Dec-02   | May-03  |
|------|------------|-----------|-----------|------------|----------|----------|---------|
|      | AZT        | 300mg     | 730 Tabs  | 1786.74    | 1424.13  | 1256.48  | 1069.47 |
|      | 3TC        | 150mg     | 730 Tabs  | 842.45     | 671.37   | 583.37   | 496.54  |
|      | AZT+3TC    | 300+150mg | 730 Tabs  | 2638.46    | 2075.16  | 1830.87  | 1558.38 |
|      | Didanosine | 100mg     | 1460 Tabs | 1758.97    | 2003.95  | 1660.35  | 1413.23 |
|      | Stavudine  | 40mg      | 730 Tabs  | 407.34     | 315.34   | 278.22   | 236.81  |
|      | Nevirapine | 200mg     | 730 Tabs  | 1388.66    | 1139.30  | 942.36   | 802.11  |
|      | Efavirenz  | 200mg     | 1095 Tabs | 4490.00    | 4455.48  | 3930.98  | 3345.93 |
|      | Nelfinavir | 250mg     | 3285 Tabs | 2706963.00 | 15594.20 | 13462.28 | 6722.41 |

TABLE A-8 Best world price (generic or branded) available to the South African public sector for triple-drug therapies, in South African Rand\*\*

| DAY                 |  | Oct-01 | Jun-02 | Dec-02 | May-03 |
|---------------------|--|--------|--------|--------|--------|
| <b>Cocktail</b>     |  |        |        |        |        |
| d4T+3TC+nevirapine  |  | 7.50   | 5.80   | 4.94   | 4.21   |
| Combivir+nevirapine |  | 11.02  | 11.70  | 9.42   | 8.02   |
| Combivir+Efavirenz  |  | 19.53  | 17.90  | 15.80  | 13.44  |
| Combivir+Nelfinavir |  | 81.38  | 48.42  | 42.72  | 22.69  |

| MONTH               |  | Oct-01  | Jun-02  | Dec-02  | May-03 |
|---------------------|--|---------|---------|---------|--------|
| <b>Cocktail</b>     |  |         |         |         |        |
| d4T+3TC+nevirapine  |  | 224.96  | 173.95  | 149.43  | 127.19 |
| Combivir+nevirapine |  | 330.50  | 350.95  | 282.71  | 240.63 |
| Combivir+Efavirenz  |  | 586.01  | 537.10  | 473.87  | 403.34 |
| Combivir+Nelfinavir |  | 2441.27 | 1444.47 | 1257.38 | 680.64 |

| Year                |  | Oct-01   | Jun-02   | Dec-02   | May-03  |
|---------------------|--|----------|----------|----------|---------|
| <b>Cocktail</b>     |  |          |          |          |         |
| d4T+3TC+nevirapine  |  | 2731.03  | 2126.02  | 1803.94  | 1535.46 |
| Combivir+nevirapine |  | 3999.34  | 4262.21  | 3437.37  | 2925.76 |
| Combivir+Efavirenz  |  | 7128.45  | 6530.64  | 5761.85  | 4904.30 |
| Combivir+Nelfinavir |  | 29708.09 | 17669.35 | 15293.14 | 8280.78 |

For dosage and quantity required of each drug in cocktail, see the price charts for individual drugs.

TABLE A-9 Best world public-sector price offered by branded pharmaceutical manufacturers versus lowest world public-sector price offer\*\*

| Drug       | Branded Company | Branded USD per year | Lowest-Price Company | Lowest-Price USD per year |
|------------|-----------------|----------------------|----------------------|---------------------------|
| AZT        | GSK             | 274.00               | Aurobindo            | 140.00                    |
| 3TC        | GSK             | 128.00               | Hetero               | 65.00                     |
| AZT+3TC    | GSK             | 329.00               | Aurobindo            | 204.00                    |
| Didanosine | BMS             | 310.00               | Cipla                | 185.00                    |
| Stavudine  | BMS             | 49.00                | Aurobindo            | 31.00                     |
| Nevirapine | BI              | 438.00               | Hetero               | 105.00                    |
| Efavirenz  | Merck           | 500.00               | Aurobindo            | 438.00                    |
| Nelfinavir | Roche           | 880.00               | Roche                | 880.00                    |

Table A-10 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

TABLE A-11 Exchange rates\*\*\*\*

Chapter A Rand to Dollar

|                |         |
|----------------|---------|
| December 2000  | 0.13109 |
| February 2001  | 0.12795 |
| September 2001 | 0.11588 |
| February 2002  | 0.08737 |
| July 2002      | 0.09933 |
| October 2002   | 0.09693 |
| July 2003      | 0.13291 |

Chapter B Dollar to Rand

|               |          |
|---------------|----------|
| October 2001  | 9.25774  |
| June 2002     | 10.17234 |
| December 2002 | 8.97485  |
| May 2003      | 7.63910  |

Sources:

\* Public sector prices from the “Pharmaceutical Blue Book,” published by Pharmaceutical Publishers, a subsidiary of Alex WhiteHoldings Limited .

\*\* Best possible prices from “Untangling the Web of Price Reductions,” published by Médecins Sans Frontières. Volumes 1-4.

\*\*\* [REDACTED]

\*\*\*\*Exchange rates taken from historical exchange rate database maintained by OADNA Inc.