

# DRAFT DISCUSSION DOCUMENT

Essential drugs and other commodities  
for  
reproductive health services



World Health Organization

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The draft is under technical review by WHO and UNFPA, and will be updated and revised for joint publication.



## **Foreword: Status of this document**

This draft discussion document is being issued by WHO and UNFPA as interim internal guidance on essential drugs and commodities for reproductive health services, and also to solicit as widely as possible comments and suggestions for its further development. The commodities listed in this document will also be checked for consistency with the forthcoming 13<sup>th</sup> WHO Model List of Essential Medicines (April 2003) and other relevant lists, and a revised version will be issued in early 2004.

Any comments may please be forwarded to Jagdish Upadhyay at UNFPA ([upadhyay@unfpa.org](mailto:upadhyay@unfpa.org)) or Maggie Usher-Patel at WHO ([usherpatelm@who.int](mailto:usherpatelm@who.int)).

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## Introduction

Over the past decade there have been major improvements in the reproductive health (RH) of substantial numbers of people. However, many people, particularly in developing countries, continue to suffer from poor reproductive health. The five-year review, held in 1999, of progress in implementation of the Programme of Action of the International Conference on Population and Development (ICPD) noted that in several countries and regions progress has been limited and setbacks have occurred.

In many countries significant levels of unmet need for family planning and other components of reproductive health persist. In addition, many services are of low quality, in part due to inadequate and unreliable supplies of essential reproductive health commodities. It is estimated that up to 130 million couples wish to use modern contraception but do not have access to family planning services. Maternal mortality and morbidity remain unacceptably high. In parts of the world the incidence of sexually transmitted infections (STIs) including HIV/AIDS is increasing and there is poor access to preventive and treatment services. The World Health Organization (WHO) estimates that globally there are 340 million new cases of treatable STIs each year.

While unmet need for reproductive health services is already substantial, in the absence of intensified actions such as those outlined in the key future actions identified at the five-year review of the ICPD Programme of Action, it is likely to continue to increase substantially. Depending on the actions taken over the next few years in the areas of population policy and reproductive health, including the provision of family planning and other reproductive health services, the world population will total somewhere between 6.9 billion and 7.4 billion by 2015. The number of people of reproductive age and consequently with a need for essential reproductive health commodities, will, in any case, grow more rapidly than the world's population as a whole because of previously high rates of growth and the large number of people entering their childbearing years.

The goal agreed at ICPD was to achieve “universal access to reproductive health”. This was endorsed at the five year follow-up and further that “by 2015 all primary health care and family planning facilities are able to provide, directly or through referral, the widest achievable range of safe and effective family planning and contraceptive methods; essential obstetric care; prevention and management of reproductive tract infections, including sexually transmitted diseases; barrier methods, such as male and female condoms and microbicides, if available, to prevent infection. By 2005, 60 per cent of such facilities should be able to offer this range of services, and by 2010, 80 per cent of them should be able to offer such services”.

Absolutely crucial to enabling people to make choices which determine their reproductive health is that quality reproductive health commodities necessary to provide effective care are consistently available where they are required.

In September 2000, UNFPA, in response to a growing crisis with regard to access to reproductive health commodities in developing countries, presented a strategic approach entitled, *A Global Strategy for Reproductive Health Commodity Security (RHCS)*. This drew attention to the increasing shortfall in reproductive health commodities. It sets out a systematic approach to tackling problems with access to these crucial supplies, the solving of which is necessary for

improvement in reproductive health. The strategy draws extensively on the experience of implementation of the *Essential Drugs and National Drug Policy* approach introduced by WHO about 25 years ago. The essential drug concept recognizes that effective drug treatments exist for most leading causes of ill health and that essential drugs are one of the vital tools needed to improve and maintain health, but access to these essential drugs is very limited in many developing countries. It recognized that there are four enabling factors that need to be in place to ensure sustainability of access to these crucial items of preventive and curative care:

- Rational selection based on a national essential drugs list and evidence-based treatment guidelines;
- Affordable prices for governments, health care providers and consumers;
- Sustainable financing through equitable funding mechanisms such as government revenues or social health insurance;
- Reliable supply systems incorporating a mix of public and private supply services.

In addition, quality and safety and rational use are critical to ensure cost-effective use of essential commodities.

Through the *Global Strategy for Reproductive Health Commodity Security* UNFPA is committed to ensuring universal access to reproductive health care by 2015. It fully recognises that rational selection is only one component of ensuring improved access to reproductive health commodities and that efficient procurement and logistic systems and rational use and demand are equally important.

This listing of essential drugs and other commodities for reproductive health services concentrates on those drugs that are necessary at the primary health care level. However, for certain components of reproductive health care, most notably maternal care, it is absolutely crucial that services are accessible at the first referral level and the necessary commodities for this level have also been included where appropriate. Commodities necessary for screening programmes for conditions such as breast and cervical cancer are not included because they depend critically on a well-functioning referral system for secondary care.

The listing is not intended to be comprehensive; however, it includes those items that are most important for the provision of the core components of reproductive health primary care, namely family planning, maternal and neonatal health care and the prevention and treatment of reproductive tract infections.

The list is principally intended for people involved in planning and implementing reproductive health programmes, including programme managers and development assistance agencies and organizations. UNFPA and WHO Country Offices, in their discussions with governments and others involved in reproductive health care, should use this listing as a guide regarding which essential reproductive health commodities are necessary to implement quality RH services. Governments and other agencies may also find the list useful in deciding what RH commodities are necessary at both primary and first referral levels.

Annex 1 and 2 list RH kits and equipment and other RH equipment and supplies, many of the latter are not exclusively necessary for RH procedures but are required for a wider range of critical care, for instance operating theatre equipment, and in many instances these are available locally in countries.

RH commodities are essential to the provision of quality RH services. However, without other equally important complementary activities their impact will be limited. These include specific training of health personnel in RH care and the appropriate use of equipment, supplies and drugs. IEC programmes designed to facilitate effective demand for services and sustained efforts to improve the coverage and effectiveness of services are also crucial.

As developments occur in reproductive health technology and new approaches to providing care are identified, the list will require revision. It is intended that the list will be regularly reviewed and will be based upon the best available evidence.

## Family planning commodities

### Hormonal contraceptives

---

Oral, monophasic, low dose combined

ethinylestradiol + levonorgestrel, tablet, 30 µg + 150 µg monthly packs

ethinylestradiol + norethisterone, tablet, 35 µg + 1.0 mg monthly packs

Oral, progestogen-only

levonorgestrel, tablet, 30 µg monthly packs

norethisterone, tablet, 350 µg monthly packs

Emergency contraception pills

levonorgestrel, tablet, 0.75 mg pack of two

ethinylestradiol + levonorgestrel, tablet, 50 µg + 250 µg pack of four

Injectable, progestogen-only

medroxyprogesterone acetate, depot injection, 150 mg in 1 ml vial three-monthly injectable

norethisterone enantate, oily solution, 200 mg/ml in 1 ml ampoule two-monthly injectable

Injectable, combined

estradiol cypionate + medroxyprogesterone acetate, depot injection, 5 mg + 25 mg monthly injectable

estradiol valerate + norethisterone enantate, depot injection, 5 mg + 50 mg monthly injectable

### Intrauterine devices

---

Copper-containing devices

Levonorgestrel-releasing devices (20 µg per 24 hrs)

### Barrier methods

---

Male latex condoms, (49 and 52 mm)

Female condoms

Diaphragms with spermicide, (55 cm to 95 cm in 5 cm steps)

Cervical caps, various sizes

### Sub-dermal implants, with reusable application trocar

---

**Creams, jelly (gel), pessaries, foaming tablets, aerosol foams and C film containing spermicides**

---

## **Family planning kits<sup>1</sup>**

---

Subdermal implant insertion and removal kit

IUD insertion and removal kit

Vasectomy kit

Non-scalpel vasectomy (NSV) kit

Minilaparotomy kit

Laparoscopy kit (laparoscope available separate from the kit)

Tubal ligation kit (abdominal)

---

<sup>1</sup> Further details on all kits are in Annex 1 & 2. UNFPA provides emergency reproductive health kits; for further details, contact UNFPA procurement services.

## Maternal and neonatal health care commodities

### Anaesthetics, local

---

lidocaine injection, 1% in 20 ml vial

### Analgesics

---

paracetamol tablet, 100-500 mg

acetylsalicylic acid tablet, 100-500 mg

### Anaphylaxis, drugs used in

---

chlorphenamine tablet, 4 mg (hydrogen maleate)  
injection, 10 mg (hydrogen maleate) in 1 ml ampoule

epinephrine injection, 1 mg (as hydrochloride) in 1 ml ampoule

hydrocortisone powder for injection, 100 mg (as sodium succinate) in vial

### Antianaemia

---

ferrous salt tablet, equivalent to 60 mg iron

folic acid tablet, 5 mg

ferrous salt + folic acid tablet, equivalent to 50 mg iron + 400 µg folic acid

### Antibacterials

---

amoxicillin capsules or tablet, 250 mg, 500 mg (anhydrous)

ampicillin powder for injection, 500 mg and 1 g (as sodium salt) in vial

benzathine benzylpenicillin powder for injection, 1.44 g benzylpenicillin (= 2.4 million IU) in 5 ml vial

cloxacillin capsule, 500 mg, 1g (as sodium salt)

procaine benzylpenicillin powder for injection 1 g (= 1 million IU) 3 g (= 3 million IU) in vial

doxycycline capsule or tablet, 100 mg (hydrochloride)

gentamicin injection, 10 mg, 40 mg (as sulfate)/ml in 2 ml vial

metronidazole tablet, 200-500 mg  
injection, 500 mg in 100 ml vial

sulfamethoxazole and trimethoprim tablet, 400 mg + 80 mg

### Anticonvulsants

---

magnesium sulfate injection, 500 mg/ml in 2 ml ampoule and 10 ml ampoule

### Antidotes

---

calcium gluconate injection, 100 mg/ml in 10 ml ampoule

### Anthelmintics

---

mebendazole chewable tablet, 100 mg, 500 mg

---

**Antihypertensive and related drugs**

---

|                     |                       |
|---------------------|-----------------------|
| methyldopa          | tablet, 250 mg        |
| atenolol            | tablet, 50 mg, 100 mg |
| hydrochlorothiazide | scored tablet, 25 mg  |

**Antimalarials<sup>2</sup>**

---

|                             |  |
|-----------------------------|--|
| chloroquine                 | tablet, 100 mg, 150 mg (as phosphate or sulfate) |
| proguanil                   | tablet, 100 mg (hydrochloride)                   |
| sulfadoxine + pyrimethamine | tablet, 500 mg + 25 mg                           |
| mefloquine                  | tablet, 250 mg (as hydrochloride)                |
| artesunate                  | tablet, 50 mg                                    |

**Antiseptics/disinfectants**

---

|                        |  |
|------------------------|--|
| chlorhexidine          | solution, 5% (digluconate) for dilution        |
| ethanol                | solution, 70% (denatured)                      |
| polyvidone iodine      | solution, 10%                                  |
| chlorine base compound | powder (0.1%, available chlorine) for solution |

**Immunologicals**

---

|                                    |                                       |
|------------------------------------|---------------------------------------|
| anti-D immunoglobulin (human)      | injection, 250 µg in single-dose vial |
| antitetanus immunoglobulin (human) | injection, 500 IU in vial             |

**Ophthalmological preparations**

---

|              |                                  |
|--------------|----------------------------------|
| tetracycline | eye ointment, 1% (hydrochloride) |
|--------------|----------------------------------|

**Oxytocics<sup>3</sup>**

---

|             |   |
|-------------|---|
| ergometrine | tablet, 200 µg (hydrogen maleate)<br>injection, 200 µg (hydrogen maleate) in 1 ml ampoule |
| oxytocin    | injection, 10 IU in 1 ml ampoule  |

**Vaccines**

---

|                |                   |
|----------------|-------------------|
| tetanus toxoid | injection, 0.5 ml |
|----------------|-------------------|

**Vitamins**

---

|         |   |
|---------|---|
| retinol | sugar-coated tablet, 10,000 IU (as palmitate) (5.5 mg)<br>capsule, 200,000 IU (as palmitate) (110 mg) |
|---------|---|

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<sup>2</sup> Choice of appropriate antimalarial will depend on local malaria sensitivity/resistance situation. Artemether is categorised as 'for restricted indications' in WHO's Essential Drugs List of December 1999.

<sup>3</sup> Require storage at 2 to 8 degrees Celsius.

## Reproductive tract infection commodities

- Specific choice of drugs should be based on antibiotic sensitivity studies in a particular area.
- It is assumed that at the primary health care level syndromic management will be followed and that the following sexually transmitted infection (STI) associated syndromes will be distinguished with the recommended syndromic management for the associated sexually transmitted agents:

|                      |   |  |
|----------------------|---|--|
| Urethral discharge   | < | treat for uncomplicated gonorrhoea and chlamydia;  |
| Genital ulcer        | < | treat for syphilis and, where prevalent, either chancroid or granuloma inguinale, or lymphogranuloma venereum; |
| Inguinal bubo        | < | treat for lymphogranuloma venereum and chancroid;  |
| Scrotal swelling     | < | treat for uncomplicated gonorrhoea and chlamydia;  |
| Cervical infection   | < | treat for uncomplicated gonorrhoea and chlamydia;  |
| Vaginal infection    | < | treat for bacterial vaginosis and <i>Trichomonas vaginalis</i> and where indicated <i>Candida albicans</i> ;   |
| Lower abdominal pain | < | treat for pelvic inflammatory disease.   |

## Diagnostic tests

---

Rapid plasma reagin testing sets

Test HIV 1 + 2, fast, (HIV Spot), 100 tests, set

## First line drugs<sup>4</sup>

---

|                                 |   |
|---------------------------------|---|
| amoxicillin                     | capsule or tablet, 250 mg, 500 mg (anhydrous)                                 |
| benzathine benzylpenicillin     | powder for injection, 1.44 g benzylpenicillin (= 2.4 million IU) in 5 ml vial |
| procaine benzylpenicillin       | powder for injection, 1 g (= 1 million IU), 3 g (= 3 million IU) in vial      |
| doxycycline <sup>5</sup>        | capsule or tablet, 100 mg (hydrochloride)                                     |
| sulfamethoxazole + trimethoprim | tablet, 400 mg + 80 mg  |
| metronidazole <sup>6</sup>      | tablet, 200-500 mg<br>injection, 500 mg in 100 ml vial                        |
| erythromycin                    | tablet or capsule, 250 mg   |
| azithromycin <sup>7</sup>       | tablet, 500 mg  |
| spectinomycin                   | powder for injection, 2 g (as hydrochloride) in vial                          |
| clotrimazole                    | pessary, 500 mg   |
| silver nitrate                  | solution (eye drops), 1%  |
| tetracycline                    | eye ointment, 1% (hydrochloride)  |

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<sup>4</sup> As contained in: WHO. Guidelines for the Management of Sexually Transmitted Infections. WHO/HIV-AIDS/2001.01, WHO/RHR/01.01. Geneva: WHO, 2001. The WHO Department of Reproductive Health and Research (RHR) list includes the following additional drugs: ceftriaxone, cefixime, kanamycin, ofloxacin, clindamycin, tinidazole, miconazole, fluconazole, nystatin, chloramphenicol.

<sup>5</sup> Contraindicated in pregnancy.

<sup>6</sup> Contraindicated in the first trimester of pregnancy.

<sup>7</sup> The safety and efficacy of azithromycin use in pregnancy and lactating women has not been established.

## HIV prevention commodities

### Prevention of sexual transmission of HIV

---

Condoms (male and female)

### Prevention of mother-to-child transmission<sup>8</sup>

---

|  |   |
|--|---|
| nevirapine   | tablet, 200 mg,<br>oral solution, 10 mg/ ml |
| zidovudine   | tablet, 300 mg,<br>oral solution, 10 mg/ ml |
| lamivudine (3TC) (used in combination with zidovudine) | tablet, 150 mg,<br>oral solution, 10 mg/ ml |

---

<sup>8</sup>Since UNFPA's mandate is focused on prevention (amongst pregnant women in this context), UNFPA neither procures or directly programmes the above ARVs. UNFPA works with partners to ensure their availability and use to prevent HIV transmission to children.

## Bibliography

Duley L. Magnesium sulphate regimens for women with eclampsia: messages from the Collaborative Eclampsia Trial. *British Journal of Obstetrics and Gynaecology* 1996; 103: 103-105.

Hatcher RA, Trussell J, Stewart F, Cates W, Stewart GK, Guest F, Kowal D. *Contraceptive Technology*. New York, USA: Ardent Media, 1998.

Hatcher RA, Rinehart W, Blackburn R, Geller JS, Shelton JD. *The Essentials of Contraceptive Technology*. Baltimore: Population Information Program, Johns Hopkins University School of Public Health, 2001.

IPPF. *Family Planning Handbook for Health Professionals. The Sexual and Reproductive Health Approach*. London, England: IPPF, 1997.

Ratnam SS, Arulkumaran S, Sen DK (eds). *Problem-Oriented Approach to Obstetrics and Gynaecology*. Oxford: Oxford University Press, 1997.

UNICEF, UNAIDS, WHO/HTP, MSF. *Sources and Prices of Selected Drugs and Diagnostics for People Living with HIV/AIDS*. Geneva: UNICEF, UNAIDS, WHO/HTP, MSF, May 2001.

UNDP/IAPSO. *Emergency Relief Items: Compendium of Basic Specifications*. New York, USA: UNDP, 1999.

UNFPA. *Policies for UNFPA Assistance*. New York, USA: UNFPA, 1997.

UNFPA. *Contraceptive Procurement: a Checklist of Essential Actions. Guidelines for Logistics Managers*. New York: UNFPA, 1999.

UNFPA. *The Reproductive Health Kit. Reproductive health for people in crisis situations; an essential part of primary health care*. Geneva: UNFPA, Emergency Relief Operations, 2000.

UNFPA, UNHCR and WHO. *Reproductive Health in Refugee Situations. An Inter-agency Manual*. Geneva: UNFPA, UNHCR and WHO, 1999.

UNICEF. *UNICEF Supply Catalogue*. Copenhagen: UNICEF, 1997.

WHO. *Essential Elements of Obstetric Care at First Referral Level*. Geneva: WHO, 1991.

WHO. *Obstetric and Contraceptive Surgery at the District Hospital: A Practical Guide*, WHO/MCH/MSM/92.8. Geneva: World Health Organization, 1992.

WHO. *Mother-Baby Package: Implementing Safe Motherhood in Countries*, WHO/FHE/94.11. Geneva: World Health Organization, 1994.

WHO. *The New Emergency Health Kit 98. Drugs and Medical Supplies for 10,000 People for Approximately Three Months*. WHO/DAP/98.10. Geneva: WHO, 1998.

WHO. The Use of Essential Drugs. Ninth Report of the WHO Expert Committee (including the Revised Model List of Essential Drugs). WHO Technical Report Series 895. Geneva: WHO, 2000.

WHO. WHO Medicines Strategy: 2000-2003. Geneva: Essential Drugs and Medicines Policy Department, December 2000.

WHO. Improving Access to Quality Care in Family Planning: Medical Eligibility Criteria for Contraceptive Use, Second Edition, WHO/RHR/00.02. Geneva: World Health Organization, 2000.

WHO. Guidelines for the Management of Sexually Transmitted Infections. WHO/HIV-AIDS/2001.01, WHO/RHR/01.01. Geneva: WHO, 2001.

WHO. The WHO Reproductive Health Library No. 5. Evidence-based Recommendations for Reproductive Health in Developing Countries. Geneva: Department of Reproductive Health and Research, 2002.

WHO. Essential Care Practice Guide for Pregnancy, Childbirth and Newborn Care. Draft 10 (February 2001). Geneva: Department of Reproductive Health and Research, WHO, 2001.

WHO. Progress Report on Recommended Process for Development of Evidence-based Guidelines in WHO. Geneva, WHO, February 2001.

WHO. Review of WHO Treatment Guidelines, Work in Progress. Department of Essential Drugs and Medicines Policy. Geneva, WHO, February 2001.

WHO. Global Prevalence and Incidence of Selected Curable Sexually Transmitted Infections. Overview and Estimates. WHO/HIV-AIDS/2001.02, WHO/CDS/CSR/EDC/2001.10. Geneva: WHO, 2001.

WHO. Clinical Management of Rape Survivors. Guide to Assist in the Development of Situation-specific Protocols. WHO/RHR/02.8. Geneva, UNHCR, 2002.

WHO. Managing Complications in Pregnancy and Childbirth: A guide for midwives and doctors. WHO/RHR/00.7. Geneva, WHO, 2000.

## Annex 1: Reproductive health kits and equipment

### Family planning equipment kits

#### Subdermal implant insertion and removal kit

---

|   |   |
|---|---|
| Cup, solution, 180 ml, stainless steel            | 1 |
| Scalpel handle, minor surgery, no. 3              | 1 |
| Surgical blade, sterile, stainless steel, no. 10  | 2 |
| Forceps, artery, straight, Kelly, 140 mm          | 1 |
| Forceps, artery, curved, Halsted/mosquito, 125 mm | 1 |

#### IUD insertion and removal kit

---

|  |   |
|--|---|
| Speculum, vaginal, bi-valve, Graves, small, stainless steel    | 1 |
| Speculum, vaginal, bi-valve, Graves, medium, stainless steel   | 1 |
| Speculum, vaginal, bi-valve, Graves, large, stainless steel    | 1 |
| Forceps, sponge-holding, straight, Forester, 200 mm            | 1 |
| Forceps, hysterectomy, straight, Pean, 220 mm, stainless steel | 2 |
| Uterine sound, Simpson, 300 mm, graduated in 20 mm             | 3 |
| Forceps, uterine, tenaculum, Duplay, double curved, 280 mm     | 1 |
| Scissors, uterine, curved, Sims, 200 mm, stainless steel       | 1 |
| Metal box, 32 x 15 x 8cm                                       | 1 |
| Cup, solution, 180 ml, stainless steel                         | 1 |
| Basin, kidney, 825 ml, stainless steel                         | 2 |

#### Vasectomy kit

---

|  |   |
|--|---|
| Cup, solution, 180 ml, stainless steel                     | 1 |
| Tray, instrument with cover, small, stainless steel        | 1 |
| Clamp, towel, Jones, 5 cm                                  | 4 |
| Forceps, artery, straight, Kelly, 140 mm                   | 4 |
| Forceps, artery, curved, Halsted/mosquito, 125 mm          | 2 |
| Forceps, tissue, Allis, 150 mm                             | 2 |
| Scalpel handle, minor surgery, no. 3                       | 1 |
| Surgical blade, sterile, stainless steel, no. 10           | 5 |
| Needles, suture, abdominal, straight, Keith                | 2 |
| Needle suture, intestinal, Murphy, ½ circle                | 2 |
| Scissors, fine, operating, curved, stainless steel, 120 mm | 1 |
| Syringe, anaesthetic, 5 ml, sterilizable                   | 1 |
| Spare syringe barrel                                       | 4 |

**Non-scalpel vasectomy (NSV) kit**

---

|  |   |
|--|---|
| Cup, solution, 180 ml stainless steel                      | 1 |
| Forceps, tissue, Allis, 150 mm                             | 2 |
| Forceps, artery, straight, Kelly, 140 mm                   | 2 |
| Forceps, artery, curved, Halsted/mosquito, 125 mm          | 2 |
| Needle holder, straight, Mayo-Hegar, 180 mm                | 1 |
| Scissors, fine, operating, curved, stainless steel, 120 mm | 1 |
| NSV ringed forceps   | 1 |
| NSV dissecting forceps                                     | 1 |

**Minilaparotomy kit**

---

|  |   |
|--|---|
| Cup, solution, 180 ml, stainless steel                       | 1 |
| Forceps, dressing, 250 mm                                    | 1 |
| Forceps, tissue, Allis, 150 mm                               | 1 |
| Forceps, tissue, Babcock, 200 mm                             | 2 |
| Forceps, straight, Kelly, 140 mm                             | 2 |
| Forceps, artery, curved, Halsted/mosquito, 125 mm            | 4 |
| Forceps, uterine, tenaculum, Duplay, double curved, 280 mm   | 1 |
| Forceps, tissue, straight, Forester, 200 mm                  | 2 |
| Needle holder, straight, Mayo-Hegar, 180 mm                  | 2 |
| Uterine elevator   | 1 |
| Tubal hook   | 1 |
| Abdominal retractor, Richardson-Eastman                      | 2 |
| Scissors, tonsil curved, Melzenbaum, 150 mm, stainless steel | 1 |
| Scissors, dissecting, straight, Mayo, 170 mm                 | 1 |
| Scalpel, handle, no. 3                                       | 1 |
| Surgical blade, no. 10, stainless steel                      | 5 |

**Laparoscopy kit**

---

*Laparoscope available separate from the kit*

|  |   |
|--|---|
| Tray, instrument, with cover, large, stainless steel         | 1 |
| Cup, solution, 180 ml, stainless steel                       | 2 |
| Forceps, sponge-holding, straight, Forester, 200 mm          | 1 |
| Speculum, vaginal, bi-valve, Graves, small, stainless steel  | 1 |
| Speculum, vaginal, bi-valve, Graves, medium, stainless steel | 2 |
| Speculum, vaginal, bi-valve, Graves, large, stainless steel  | 1 |
| Forceps, uterine, tenaculum, Duplay, double curved, 280 mm   | 1 |
| Uterine elevator   | 4 |

|  |    |
|--|----|
| Clamp, towel, Jones, 5 cm  | 4  |
| Basin, kidney, large   | 2  |
| Scalpel, handle, no. 3   | 1  |
| Blade, surgical, no. 15  | 10 |
| Scissors, dissecting, straight, light duty 125 mm                  | 1  |
| Needle, eye, 2 circle, cutting edge, no. 3, 6 per pack             | 1  |
| Forceps, toothed, thumb  | 1  |
| Needle holder, straight, Mayo-Hegar, 180 mm                        | 2  |
| Fallope ring set, pairs  | 10 |
| <b>Tubal ligation kit (abdominal)</b>                              |    |
| <hr/>  |    |
| Tray, instrument with cover, large, stainless steel                | 1  |
| Clamp, towel, Jones, 9 cm  | 4  |
| Forceps, dressing, standard, 155 mm                                | 1  |
| Forceps, artery, straight, Pean, 160 mm                            | 4  |
| Forceps, artery, straight, Pean, 220 mm                            | 4  |
| Forceps, artery, curved, Halsted/Mosquito, 125 mm                  | 2  |
| Forceps, tissue, Babcock, 200 mm                                   | 1  |
| Forceps, tissue, 145 mm  | 1  |
| Forceps, tissue, fenestrated jaw, Duval, 145 mm                    | 1  |
| Forceps, uterine, tenaculum, double-curved, Duplay, 280 mm         | 1  |
| Needle holder, straight, Mayo-Hegar, 180 mm                        | 1  |
| Scalpel-holder, minor surgery, no. 3                               | 1  |
| Surgical blade, sterile, no. 10, stainless steel                   | 5  |
| Needle, suture, abdominal, straight, Keith                         | 2  |
| Needle, suture, 3/8 circular round, no.12, pack of 6               | 2  |
| Retractors, abdominal, Richardson-Eastman D-E, set of 2            | 1  |
| Retractors, general, Langebeck, 60 x 20 mm                         | 1  |
| Scissors, operating, straight, B/B, 145 mm                         | 2  |
| Scissors, tonsil, curved, Metzenbaum baby, 150 mm, stainless steel | 1  |
| Speculum, vaginal, bi-valve, small, Graves                         | 1  |
| Speculum, vaginal, bi-valve, medium, Graves                        | 1  |

## Maternal and neonatal health commodities

### Diagnostic kits

---

Pregnancy testing set  
Rapid plasma reagin (RPR) testing set  
Test HIV 1 + 2, fast, (HIV Spot), 100 tests, set

### Antenatal and postnatal care

---

Sphygmomanometer, aneroid 300 mm with cuff  
Stethoscope, binaural  
Stethoscope, fetal, monaural  
Scale, baby  
Scale, spring, baby, with sling  
WHO Haemoglobin Colour Scale  
Thermometer, clinic, oral/rectal, Celsius/Fahrenheit (easily readable)  
Tourniquet

Pregnancy testing set  
Rapid plasma reagin (RPR) testing set  
Test HIV 1 + 2, fast, (HIV Spot), 100 tests, set  
Test set, urine, complete  
Urinary protein test strips (box of 50)  
Lancet blood (Hagedorn needle)

Examination gloves, non-sterile, disposable

### Delivery kit for use at home

---

|                                      |   |
|--------------------------------------|---|
| Bar of soap                          | 1 |
| Square meter of plastic sheet        | 1 |
| Razor blade (half cutting)           | 1 |
| String for umbilical cord, 3 x 15 cm | 1 |
| Pictorial instruction sheet          | 1 |
| Sealed bag for packaging             | 1 |

**Professional midwife kit**

---

|  |   |
|--|---|
| Disinfector, for boiling instruments                     | 1 |
| Basin, kidney, polypropylene                             | 1 |
| Basin, kidney, large, stainless steel                    | 1 |
| Bowl, small, 600 ml, stainless steel                     | 1 |
| Apron, plastic   | 1 |
| Envelope, tablet, self-sealing, 125 x 200 mm, pack of 10 | 1 |
| Extractor mucus  | 1 |
| Catheter, urethral, Nealon, Ch 12                        | 1 |
| Catheter, urethral, Nealon, Ch 14                        | 1 |
| Gloves, surgical, size 7-1/2, pair                       | 2 |
| Pouch, clear polypropylene, 250 x 380 mm long            | 1 |
| Sheeting, plastic, clear, 900 x 1800 mm                  | 1 |
| Bottle, dropping, 10 ml, amber glass                     | 2 |
| Thermometer, clinical, oral/rectal                       | 1 |
| File for BCG ampoules, 6 x 50 mm                         | 4 |
| Brush, hand, scrubbing, surgeon's                        | 1 |
| Case, midwife, with lid, aluminium                       | 1 |
| Cotton wool, 100 g non-sterile, roll                     | 1 |
| Gauze pad, 76 x 76 mm, sterile, pack of 20               | 1 |
| Nail clipper/file  | 1 |
| Soap-box, 2-piece, plastic                               | 1 |
| Soap, toilet, bar, wrapped, unperfumed, 110 g            | 6 |
| Scale, spring, baby, 5 kg - 25 kg                        | 1 |
| Suture, catgut, chromic, 2/0, with needle, box of 36     | 1 |
| Tape, umbilical, non-sterile, spool, 100 m               | 1 |
| Tape-measure, 1.5 m, vinyl-coated fibreglass             | 1 |
| Wrap, infant, foil (emergency blanket)                   | 1 |
| Towel, hook  | 4 |
| Sphygmomanometer, aneroid, 300 mm with cuff              | 1 |
| Examination gloves, non-sterile, disposable (box)        | 1 |
| Stethoscope, binaural                                    | 1 |
| Stethoscope, fetal, monoaural                            | 1 |
| Forceps, artery, straight, Pean, 160 mm                  | 2 |
| Scissors, operating, straight, B/B, 145 mm               | 1 |
| Bottle, narrow mouth, round, w/screw cap                 | 1 |

### **Commodities for use at primary health care level**

- to perform normal deliveries
- to resuscitate mothers and babies
- to suture episiotomies and perineum tears under local anaesthesia
- to start IV and antibiotic treatment for STI, pregnancy and delivery complications
- to resuscitate and stabilise women with complications before transferring to referral level (e.g. eclampsia, haemorrhage)

#### **General equipment**

---

|  |   |
|--|---|
| Sphygmomanometer, aneroid, 300 mm with cuff                            | 1 |
| Stethoscope, binaural  | 1 |
| Basin, kidney, 825 ml, stainless steel                                 | 2 |
| Thermometer, clinic, oral/rectal, Celsius/Fahrenheit (easily readable) | 4 |
| Brush, hand, surgeon's, white nylon bristles                           | 1 |
| Apron, utility, 900 mm x 1 m, opaque plastic                           | 2 |
| Sheeting, plastic, clear PVC, 90 cm x 180 cm                           | 2 |

#### **Delivery set**

---

|  |   |
|--|---|
| Scissors, cord cutting, Busch, curved or flat, 160 mm (baby)             | 1 |
| Scissors, dissecting, curved, Mayo, 170 mm B/B, stainless steel (mother) | 1 |
| Forceps, tissue, spring type, 1 x 2 teeth, 150 mm                        | 2 |
| Box, instrument, stainless steel, 18 x 8 x 4 cm                          | 1 |

#### **Suture set**

---

|   |   |
|---|---|
| Scissors, dissecting, straight, Mayo, 170 mm B/B, stainless steel | 1 |
| Holder, needle, straight, Mayo, HGR, 160 mm                       | 1 |
| Forceps, tissue, spring-type, 1 x 2 teeth, 150 mm                 | 1 |
| Box, instrument, stainless steel, 20 x 10 x 3 cm                  | 1 |

## **Disposable supplies (to supplement equipment)**

---

Soap, toilet, bar, wrapped

Examination gloves, non-sterile, disposable

Gloves, surgeon's, latex, size 7-1/2, disposable, sterile

Gloves, surgeon's, latex, size 6-1/2, disposable, sterile

Gloves, examination, latex, non-sterile, size medium

Tape, umbilical, non-sterile, 3 mm wide x 100 mm, spool

Catheter, female, urethral, disposable, 12 FR

Mucus extractor

Suction catheter, ch10-12, disposable, to be able to connect with:

Syringe, 50 ml, plastic

Suture, synthetic, sterile, absorbable, sertix, semi-circled, rounded, 3/8, 2/0

Gauze-pad, sterile, 12 ply, 76 x 76 mm, pack of 20

Cannula, IV, 16G, 18G and 20G

Plaster, adhesive tape, roll 2 cm x 20 m

IV-infusion set

Cotton wool, absorbent, non sterile, 100 g

Burnboxes for safe needle disposal

Suture, synthetic, sterile, absorbable, with needle DEC 1.4/8

Suture, synthetic, sterile, non-absorbable, with needle, DEC 2/0, 2/8 30 mm tri

Suture, synthetic, sterile, absorbable, without needle, roll

Suture, synthetic, sterile, absorbable, Dec 3 (2/0) with needle C 4/8 30mm, round

Suture, silk, 3/0, with needle

Catheters, urethral, Foley, Ch 12, Ch 14, Ch 18

Plastic urine bag for catheter, urethral Foley with outlet

Drapes in strong cotton, 1.5 square meter

Syringes, disposable, 2 ml, 5 ml, 10 ml

Needles, hypo, 19G, 21G, 25G, disposable

Gauze-pad, sterile, 12 ply, 76 x 76 mm (20 per pack)

Tape, adhesive, 2 cm x 5 m

---

**Resuscitation equipment (including suction apparatus)**

---

|  |   |
|--|---|
| Resuscitation set, infant, Ambu emergency case     | 1 |
| Resuscitator, infant/child, manual                 | 1 |
| Infant laryngoscope with spare bulbs and batteries | 1 |
| Adult laryngoscope with spare bulbs and batteries  | 1 |
| Resuscitator for adults                            | 1 |
| Cannula Mayo                                       | 1 |
| Suction apparatus, foot operated for adults        | 1 |
| Suction apparatus, paediatric, foot-operated       | 1 |
| Endotracheal tubes, sizes 3 to 8                   |   |
| Suction catheters for babies, Ch 10                |   |
| Suction catheters for babies, Ch 12                |   |

---

**Vacuum extraction delivery kit**

---

*For performance of vacuum extraction deliveries*

- Vacuum extractor, Bird, complete; either: electric or manual
- Basic essential spares including spare bottle

---

**Kit for suture of vaginal and cervical tears**

---

**Equipment**

|  |   |
|--|---|
| Scissors, dissecting, straight, Mayo, 170 mm, B/B, stainless steel | 1 |
| Holder, needle, straight, Mayo-HCR, 180 mm                         | 1 |
| Retractor, vaginal, Doyen, medium blade                            | 2 |
| Speculum, vaginal, bi-valve, Graves, large, stainless steel        | 1 |
| Speculum, vaginal, bi-valve, Graves, medium, stainless steel       | 1 |
| Speculum, vaginal, weighted Auvard                                 | 1 |
| Forceps, sponge-holding, straight, 200 mm                          | 1 |
| Metal box, 32 x 15 x 8 cm  | 1 |

**Disposable supplies**

- Suture, synthetic, sterile, absorbable, sertix, semi-circled, rounded, 3/8, 2/0 (box of 12)
- Gauze-pad, sterile, 12 ply, 76 x 76 mm (5 per pack)
- Non-sterile gloves, medium (box of 100)
- Vaginal lubricant jelly/examination gel
- Chlorhexidine 5% solution, 1 litre

**Eclampsia management kit**

---

|   |   |
|---|---|
| Cannula, IV, 20G  | 1 |
| Intravenous giving/infusion set   | 1 |
| Zinc oxide tape to secure cannula   | 1 |
| Gauze swabs, pack of 10   | 1 |
| Sodium chloride, injectable solution, 0.9% isotonic, 500 ml   | 1 |
| Magnesium sulfate, injection, 500 mg/ml in 2 ml ampoule and 10 ml ampoule;<br>2 x 10 ml and 2 x 2 ml ampoules for loading dose, 5 x 10 ml ampoules for 24 hour<br>maintenance therapy and 1 x 10 ml ampoule for recurrent convulsions |   |
| Calcium gluconate, injection, 100 mg/ml in 10 ml ampoule, for toxicity  | 1 |
| Syringes, disposable, 10 x 10 ml and 2 x 2 ml   |   |
| Needles 23 G, box of 12   | 1 |
| Charts, fluid balance   | 2 |
| Charts, clinical observation  | 2 |
| Protocol, summary flow chart  | 1 |
| Protocol, detailed regimen  | 1 |
| Protocol, guidelines for other aspects of care  | 1 |

**Postpartum haemorrhage and retained placenta management kit**

---

|   |   |
|---|---|
| Cannula, IV, 20G  | 2 |
| IV giving/infusion set  | 2 |
| Zinc oxide tape to secure cannula                                 | 1 |
| Ergometrine, injection, 200 µg (hydrogen maleate) in 1 ml ampoule | 3 |
| Oxytocin, injection, 10 IU in 1 ml ampoule                        | 5 |
| Ampicillin, powder for injection, 1 g (as sodium salt) in vial    | 2 |
| Atropine, injection, 1 mg (sulfate) in 1 ml ampoule               | 1 |
| Diazepam, injection, 5mg/ml in 2 ml ampoule                       | 2 |
| Compound solution of sodium lactate, injectable, 500 ml           | 4 |
| Water for injection, 10 ml ampoules                               | 1 |
| Syringes, 10 ml, disposable with needles 21G                      | 2 |
| Syringes, 2 ml, disposable with needles 21G                       | 4 |
| Gloves, surgeon's, latex, size 7-1/2 reusable, pairs              | 2 |
| Gloves, surgeon's, latex, size 6-1/2 reusable, pairs              | 2 |
| Plastic apron   | 1 |
| Containers, for blood for grouping and cross matching             | 2 |
| Gauze-pad, sterile, 12 ply, 76 x 76 mm (20 per pack)              | 1 |
| Charts, fluid balance   | 1 |
| Charts, clinical observation                                      | 1 |
| Protocol, summary flow chart                                      | 1 |
| Protocol, guidelines for other aspects of care                    | 1 |

### **Blood transfusion kit**

---

*For performing safe blood transfusions after HIV testing of blood*

|  |     |
|--|-----|
| Test Blood group, anti A, 10 ml, fl. Dropper                             | 1   |
| Test Blood group, anti A + B, 10 ml, fl. Dropper                         | 1   |
| Test Blood group, anti B, 10 ml, fl. Dropper                             | 1   |
| Test Rhesus anti D, 10 ml, dropper                                       | 1   |
| Test HIV 1 + 2, fast, (HIV Spot), 100 tests per kit                      | 1   |
| Microcentrifuge, haematocrit (battery/mainstream) "Compur" + Transformer | 1   |
| Capillary tube for haematocrit "Compur" (9 micro litre)                  | 200 |
| Cuff for compression, for bag 500/1000 ml                                | 1   |
| Battery, R14, C, alkaline, 1.5 V, (26 x 50 mm)                           | 6   |
| Blood bag + CPD (sodium citrate, hydrogen phosphate, dextrose), 250 ml   | 48  |
| Blood IV-set   | 100 |

### **Management of complications of abortion kit**

---

For treating the complications arising from unsafe and spontaneous abortion, including sepsis, incomplete evacuation and bleeding. Very often all three of these factors will be present and will require antibiotic treatment and uterine evacuation.

#### **Manual vacuum aspiration kit**

|  |   |
|--|---|
| Speculum, vaginal, bi-valve, Graves, medium, stainless steel                                       | 1 |
| Forceps, sponge-holding, straight, 200 mm  | 1 |
| Forceps, tenaculum   | 1 |
| Double-valved syringes   | 4 |
| Replacement double-valve set   | 1 |
| Cannula, flexible, 6 mm, sterile, disposable   | 8 |
| Cannula, flexible, 7 mm, sterile, disposable   | 8 |
| Cannula, flexible, 8 mm, sterile, disposable   | 8 |
| Cannula, flexible, 9 mm, sterile, disposable   | 4 |
| Cannula, flexible, 10 mm, sterile, disposable  | 4 |
| Cannula, flexible, 12 mm, sterile, disposable  | 4 |
| Replacement plunger o-rings  | 2 |
| Set of adapters  | 2 |
| 15 ml bottles of silicone  | 8 |
| Leaflet on complications of abortion   |   |
| Clinical guidelines: for the use of manual vacuum aspiration in managing complications of abortion |   |

Protocol for reusing manual vacuum aspiration instruments

**Commodities for use at the secondary health care level<sup>8</sup>**

- to perform Caesarean section
- to perform embryotomy/craniotomy

**Operating instruments for Caesarean section**

|  |    |
|--|----|
| Box, instrument, stainless steel, 40 x 20 x 10 cm              | 1  |
| Clamp, towel, Backhaus, 10.5 cm                                | 4  |
| Forceps, artery, Bengolea, 20 cm, curved, cross-serrated       | 2  |
| Forceps, artery and tissue, Chaput, 14 cm, 2 x 3 teeth         | 2  |
| Forceps, artery, Crafoord (Coller), 24 cm, curved              | 2  |
| Forceps, artery, Kelly 14 cm, curved                           | 10 |
| Forceps, artery, Halsted-Mosquito, 12.5 cm, curved             | 6  |
| Forceps, artery, Kocher, 14 cm, straight, 1 x 2 teeth          | 2  |
| Forceps, artery, Mixter, 23 cm, delicate                       | 2  |
| Forceps, dressing, standard, 14.5 cm, straight                 | 1  |
| Forceps, dressing, standard, 25 cm, straight                   | 1  |
| Forceps, intestinal, Doyen, 23 cm, curved                      | 2  |
| Forceps, peritoneal, Faure, 21 cm, slightly curved             | 2  |
| Forceps, tissue grasping, Duval, 23 cm, jaws 20 mm             | 2  |
| Forceps, tissue, standard, 14.5 cm, 1 x 2 teeth, straight      | 1  |
| Forceps, tissue, standard, 25 cm, 1 x 2 teeth, straight        | 1  |
| Gallipot, 500 ml, 12 cm, stainless steel                       | 1  |
| Needle holder, Mayo-Hegar, 18 cm, standard pattern             | 1  |
| Retractor, abdominal, Collin, 110 mm, bla. 80 x 38, 65 x 55 mm | 1  |
| Retractor, abdominal, Gosset, 2 blades 55 mm, op. 115 mm       | 1  |
| Retractor, abdominal, Rochard, fixation unit 19 cm, foldable   | 1  |
| Retractor, abdominal, Rochard, 115 x 65 mm, 28 cm              | 1  |
| Retractor, Farabeuf, double ended, 15 cm, pair                 | 1  |
| Scalpel handle, no 4, standard                                 | 1  |
| Scissors, Metzemaum, curved, 18 cm                             | 1  |
| Scissors, Nelson (Metzemaum), curved, 23 cm                    | 1  |
| Scissors, Mayo, 17 cm, curved                                  | 1  |
| Scissors, Mayo, 23 cm, curved                                  | 1  |

<sup>8</sup> Commodities included in the previous section (for use at the primary health care level) should be available at the secondary level to provide for the care of normal deliveries and those with complications.

|  |   |
|--|---|
| Spatula, ribbon retractor, malleable, 27 x 25 cm               | 2 |
| Nozzle suction, 28 cm, Yankauer, chrome plated                 | 1 |
| Suction tube, 22.5 cm, 23 French gauge                         | 2 |
| Round-bodied needles, no. 12, size 6 (pack of 12)              | 4 |
| Triangular pointed suture needles, 7.3 cm, size 6 (pack of 20) | 2 |
| Gallipot, 180 ml   | 1 |
| Sponge forceps, 22.5 cm  | 1 |

### **Embryotomy/craniotomy kit**

---

*To be used with kit for suturing cervical and vaginal tears*

|                                 |   |
|---------------------------------|---|
| Decapitation hook               | 1 |
| Breech hook                     | 1 |
| Craniotomy bone forceps, Morris | 4 |
| Cranial perforator, Simpson     | 1 |
| Embryotomy scissors             | 1 |
| Scalp forceps, Willet           | 4 |

## Equipment and supplies and alternative drugs to treat reproductive tract infections

### Diagnostic tests

---

Rapid plasma reagin testing sets

Test HIV 1 + 2, fast, (HIV Spot), 100 tests, set

### Equipment

---

Speculum, vaginal, bi-valve, Graves, medium, stainless steel

Speculum, vaginal, bi-valve, Graves, small, stainless steel

### Disposable supplies

---

Syringes, 5ml with needles 21G

Water for injection, 10ml

Needles, 18G

Cotton wool, absorbent, not sterile, 100g

Non-sterile gloves, medium (box of 100)

Condoms, male and female

Chlorhexidine solution 5%, 1 litre

Safe sex leaflets

Poster for syndromic diagnosis of STIs

### Alternative or second line drugs<sup>9</sup>

---

|                                 |   |
|---------------------------------|---|
| ciprofloxacin <sup>10</sup>     | tablet, 250 mg (as hydrochloride)                     |
| tetracycline <sup>10</sup>      | capsule or tablet, 250 mg (hydrochloride)             |
| sulfamethoxazole + trimethoprim | tablet, 400 mg + 80 mg                                |
| ceftriaxone                     | powder for injection, 250 mg (as sodium salt) in vial |
| cefixime                        | tablet, 400 mg  |
| kanamycin                       | powder for injection, 1 g (as sulfate) in vial        |
| nystatin                        | pessary, 100,000 IU                                   |
| miconazole                      | pessary, 100 mg                                       |
| fluconazole                     | capsule, 50 mg  |

---

<sup>9</sup> As contained in WHO. Guidelines for the Management of Sexually Transmitted Infections. WHO/HIV-AIDS/2001.01, WHO/RHR01.01. Geneva: WHO, 2001.

<sup>10</sup> Contraindicated in pregnancy.

## Annex 2: Other reproductive health equipment and supplies

### Equipment and supplies

---

Tape measure, 1.5 m, vinyl-coated fiberglass

Height measuring instrument, wall-mounted

Scale, mother

Haemoglobinometer, HaemoCue

Haemoglobinometer, Sahli

Disinfectant, boiling type, alcohol burner

Disinfectant, fuel, for boiling instruments

Stove, kerosene, pressure type, single burner

Disinfectant, electric, instrument, boiling type

Safety box for used syringes/needles

Burn box for used syringes/needles

Gloves, examination, non sterile, disposable (20 pairs per box)

### *Commodities for use at primary health care level*

#### **Sterilizing equipment**

---

Sterilizer, kerosene, single burner, pressure type 1

Sterilizer, dressing press, 350 x 380 mm/391 fuel 1

Disinfectant, boiling type, alcohol burner 1

Disinfectant, fuel, for boiling instruments 1

Stove, kerosene, pressure type, single burner 1

Disinfectant, electric, instrument, boiling type 1

Tape, autoclave, 50 x 19 mm 3

Timer, 60 min 1

Disinfectant, fuel, for boiling instruments 1

#### **Lighting equipment**

---

Frontal lamp, with adapter for 4 batteries R6 1

Battery, dry cell, R6, Alkaline, 1.5V (14 x 50 mm) 10

Stormlamp on kerosene + extra stocks 1

Lamp, emergency, with rechargeable batteries 1

## **Commodities for use at the secondary (first referral) health care level**

### **General anaesthetics**

---

ketamine injection, 50 mg (as hydrochloride)/ml in 10 ml vial

### **Local anaesthetics**

---

lidocaine injection, 1% in 20 ml vial

bupivacaine injection for spinal anaesthesia, 0.5% (hydrochloride) in 4 ml ampoule to be mixed with 7.5% glucose solution

### **General anaesthesia and oxygen**

---

nitrous oxide Inhalation

oxygen inhalation (medicinal gas)

thiopental powder for injection, 0.5 g, 1.0 g (sodium salt) in ampoule

### **Preoperative medication**

---

atropine injection, 1 mg (sulfate) in 1 ml ampoule

diazepam injection, 5mg/ml in 2 ml ampoule

### **Gastric antacid drug**

---

cimetidine tablet, 200 mg  
injection, 200 mg in 2 ml ampoule

### **Muscle relaxants and cholinesterase inhibitors**

---

alcuronium injection, 5 mg/ml in 2 ml ampoule

neostigmine injection, 500 µg , 2.5 mg (metilsulfate) in 1 ml ampoule

pyridostigmine bromide injection, 1mg in 1 ml ampoule

suxamethonium chloride injection, 50 mg/ml in 2 ml ampoule

### **Drugs used in anaphylaxis**

---

chlorphenamine tablet, 4 mg (hydrogen maleate)  
injection, 10 mg (hydrogen maleate) in 1 ml ampoule

epinephrine injection, 1 mg (as hydrochloride) in 1 ml ampoule

hydrocortisone powder for injection, 100 mg (as sodium succinate) in vial

## **Anaesthetic equipment and supplies**

---

Anaesthesia unit on trolley  
Halothane vaporizer with interlock (red) and refill device, keyed filter  
Connecting device for vaporizer  
Magill adult patient circuit  
Inhalation circuit, to and from, for adults  
Inhalation circuit, to and from, for children, complete  
Pin Index oxygen pressure reducer  
Alloy O<sub>2</sub> cylinder, 10.7Ltr, empty, Pin index  
Alloy N<sub>2</sub>O cylinder, 10.7Ltr, empty, Pin index  
Anaesthesia rubber rebreathing bag, 1Ltr  
Anaesthesia rubber rebreathing bag, 2Ltr  
Face mask, antistatic black rubber, size 1 w/hook ring  
Face mask, antistatic black rubber, size 3 w/hook ring  
D-circuit, standard 2.5kg, rotary circuit for soda lime  
Pulse oximeter  
Pediatric T-piece with open ended bag (Mapelson F, Ayre's T-piece with Jackson-Rees modification)  
Oxygen analyser  
Self-inflating bags (Ambu, Laerdal) with non-rebreathing valves, adult and pediatric  
Bain adult patient circuit  
Bain pediatric patient circuit  
Adult laryngoscope with spare bulbs and batteries  
Endotracheal tubes, sizes 2.5 to 10 mm (internal diameter), with inflatable cuff on sizes over 6 mm  
Intubating forceps, Magill  
Tongue depressor  
Tongue forceps  
Airway, Guedel, rubber, adult, size 3  
Airway, Guedel, rubber, infant, size 2  
Syringe, hypodermic, 10cc, Luer-Lok, glass  
Needle, spinal, 18 to 25 gauge, sterilizable, with stylet, stainless steel

## **Operating theatre equipment**

---

Sterilizing drum  
Obstetric and gynaecological operating table, electric and manual  
Table, medical/obs-gyn examination, 3-sections  
Light operating, emergency, mobile, 220V 50/60 Hz  
Light, medical, examining, table model articulate  
Light, operating stand type, mobile  
Light operating, permanent, electric  
Bed, labour and delivery  
Instrument cabinets  
Diathermy set  
Surgical stool, revolving, adjustable  
Instrument trolley  
Instrument tray  
Table anaesthesia on castors without trays  
Infusion stand, double hook, variable height

## **Ward equipment**

---

Patient screens  
Receptacle, waste, pedal action  
Stand double-bowl type with bowls  
Stretcher, foldable  
Stretcher, wheel and carrying combination  
Hospital beds with mattress  
Waste receptacle, 13 litre, plastic  
Pail waste with cover 12 litres  
Refrigerator & freezer, upright, capacity 68 litres, kerosene/electric  
Incubator for premature infant, basic  
Warmer, baby, electric, 110/220 volts AC  
Baby cots with mattress

## **Anatomical teaching models**

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Pelvic organs, female, anatomical model

Simulator, childbirth, with fetus and placenta

Simulator, gynaecologic, Zoe

Simulator, IUD insertion

Simulator, subdermal implant

Simulator for use of male condom

Simulator for use of female condom