



COMPARISON
OF THE
WHO ATC CLASSIFICATION
&
***Eph*MRA/PBIRG ANATOMICAL**
CLASSIFICATION

VERSION January 2007

Comparison of the WHO ATC Classification and *EphMRA* / PBIRG Anatomical Classification

The following booklet is designed to improve the understanding of the two classification systems. The development of the two systems had previously taken place separately. *EphMRA* and WHO are now working together to insure that there is a convergence of the 2 systems rather than a divergence.

In order to better understand the two classification systems, we should pay attention to the way in which substances/products are classified.

WHO mainly classifies substances according to the therapeutic or pharmaceutical aspects and in one class only (particular formulations or strengths can be given separate codes, e.g. clonidine in C2A as antihypertensive agent, N2C as anti-migraine product and S1E as ophthalmic product).

EphMRA classifies products, mainly according to their indications and use. Therefore, it is possible to find the same compound in several classes, depending on the product, e.g., NAPROXEN tablets can be classified in M1A (antirheumatic), N2B (analgesic) and G2C if indicated for gynaecological conditions only.

The purposes of classification are also different:

The main purpose of the WHO classification is for international drug utilisation research and for adverse drug reaction monitoring.

This classification is recommended by the WHO for use in international drug utilisation research.

The *EphMRA*/PBIRG classification has a primary objective to satisfy the marketing needs of the pharmaceutical companies. Therefore, a direct comparison is sometimes difficult due to the different nature and purpose of the two systems.

The aim of harmonisation is to reach a “full” agreement of all mono substances in a given class as listed in the WHO ATC Index (2007), mainly at third level: whenever this is not possible, or harmonisation of third level is too difficult or makes no sense (e.g. C2, R3), the second level will be taken as the reference class.

Harmonisation is not a simple adaptation of two systems; harmonisation is clearly an improvement of the existing systems.

In view of the increasing use of the WHO classification by national and international authorities and institutions with different objectives, it would be opportune to have a harmonised classification.

The main benefit would be that all parties involved in a given topic, would use the same definitions, same substances, and therefore the discussions would be easier.

In line with the harmonisation procedure of WHO/EphMRA, this booklet has been prepared to facilitate cross-comparison.

The comparison has been based on the WHO guidelines. Whenever possible, we have checked all molecules included in the WHO/ATC Index 2007 with the EphMRA coding.

We have tried to simplify the document and for this reason and according to the pre-agreed mandate of harmonisation, only the 3rd level has been used as a point of reference.

However, in some cases (e.g. A2B1 antiulcer and group L) we have also mentioned the 4th levels in our comparison.

Where the two groups are similar, on the EphMRA side only the code and the title has been added.

Where a difference exists, this has been notified using the following symbols:

- ❖ This class/code does not exist (e.g. **A3B**)
- ⊕ The heading or the content of this class may be different (e.g. N5C).
- These substances are classified in a different class.

A lot of discrepancies concern rather obsolete products for which there is no need for harmonisation (e.g. products withdrawn from the market, sales of minor importance).

In a second approach we intend to make the same comparison, but starting with the *EphMRA* marketing classification.

We hope this booklet will improve both the use and understanding of the two systems, in particular for those companies in which the two systems are used by different departments (medical and marketing).

The Committee has tried to make a comprehensive comparison of both systems, but cannot guarantee a 100% level of accuracy.

For complete guidelines on the WHO ATC systems refer to “Guidelines for ATC classification, 2007” and for the *EphMRA*/PBIRG Anatomical classification system refer to “*EphMRA* / PBIRG classification 2007”.

To obtain the guidelines please contact:

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WHO (Substance based)

EphMRA (Product based)

A ALIMENTARY TRACT AND METABOLISM

A01 STOMATOLOGICAL PREPARATIONS

A01A STOMATOLOGICAL PREPARATIONS

- Preparations for the treatment of **throat** infections (lozenges for common cold conditions) are classified in **R02** - Throat preparations



A02 DRUGS FOR ACID RELATED DISORDERS

A02A ANTACIDS

- Plain antiflatulents, see A02BX

A02B DRUGS FOR PEPTIC ULCER and GASTRO-OESOPHAGEAL REFLUX DISEASE (GORD)

A02B A *H2-receptor antagonists*

A02B B *Prostaglandins*

A02B C *Proton pump inhibitors*

A02B D *Combinations for eradication of Helicobacter pylori*

A02B X *Other drugs for peptic ulcer and gastro-oesophageal disease (GORD)*

A02X *OTHER DRUGS FOR ACID RELATED DISORDERS*

A ALIMENTARY TRACT AND METABOLISM

A1 STOMATOLOGICALS, MOUTH PREPARATIONS, MEDICINAL DENTIFRICES ETC.

A1A STOMATOLOGICALS

- Products indicated for both the **posterior part of the mouth and throat** infections are classified in **R2A** or **A1A** depending on **their main indication**

+

A1B MOUTH ANTIFUNGALS

A2 ANTACIDS, ANTIFLATULENTS AND ANTI-ULCERANTS

A2A ANTACIDS, ANTIFLATULENTS, CARMINATIVES

- Plain antiflatulents are classified in this group

A2B ANTIULCERANTS

A2B1 *H2 antagonists*

A2B3 *Prostaglandin antiulcerants*

A2B2 *Acid pump inhibitors*

A2B4 *Bismuth antiulcerants* + A2B9 *All other anticulcerants*

A2C *OTHER STOMACH DISORDER PREPARATIONS*

WHO (Substance based)

EphMRA (Product based)

A03	DRUGS FOR FUNCTIONAL GASTROINTESTINAL DISORDERS	A3	ANTISPASMODICS, ANTICHOLINERGICS, GASTROPROKINETICS & SENSORIMOTOR MODULATORS
A03A	DRUGS FOR FUNCTIONAL BOWEL DISORDERS	A3A	PLAIN ANTISPASMODICS AND ANTICHOLINERGICS
	➤ Chlorbenzoxamine is classified here	➤	Chlorbenzoxamine is classified in A2B
	➤ Trimebutine is classified here	➤	Trimebutine is classified in A3F
+	➤ Alosetron and tegaserod are classified here (A3A E)	➤	Alosetron and tegaserod are classified in A3G
A03B	BELLADONNA AND DERIVATIVES, PLAIN	❖	
A03C	ANTISPASMODICS IN COMBINATION WITH PSYCHOLEPTICS	A3C	ANTISPASMODIC/ATARACTIC COMBINATIONS
A03D	ANTISPASMODICS IN COMBINATION WITH ANALGESICS	A3D	ANTISPASMODIC/ANALGESIC COMBINATIONS
	➤ Combinations with both psycholeptics and analgesics are classified in A03E A	➤	Combination of both ataractic and analgesic are classified here
A03E	ANTISPASMODICS AND ANTICHOLINERGICS IN COMBINATION WITH OTHER DRUGS		
A03E A	<i>Antispasmodics, psycholeptics and analgesics in combination</i>		
	➤ <i>Antispasmodics in combination with psycholeptics, analgesics and other agents are classified in this group</i>	➤	<i>Combinations of both ataractics and analgesics are classified in A3D</i>
A03E D	<i>ANTISPASMODICS IN COMBINATION WITH OTHER DRUGS</i>	A3E	<i>ANTISPASMODICS COMBINED WITH OTHER PRODUCTS</i>
A03F	PROPULSIVES	A3F	GASTROPROKINETICS
	➤ Trimebutine is classified in A03A		Trimebutine is classified here

WHO (Substance based)

EphMRA (Product based)



A3AE DRUGS ACTING ON SEROTONIN RECEPTORS

A3G GASTRO-INTESTINAL SENSORIMOTOR MODULATORS

A04 ANTIEMETICS AND ANTINAUSEANTS

A4 ANTIEMETICS AND ANTINAUSEANTS

A04A ➤ ANTIEMETICS AND ANTINAUSEANTS

A4A ANTIEMETICS AND ANTINAUSEANTS

➤ Antihistamines are classified in R06A

➤ Antihistamines used in motion sickness are classified here

➤ Butaperazine is classified in N05A

➤ Butaperazine is classified here

A05 BILE AND LIVER THERAPY

A5 CHOLAGOGUES AND HEPATIC PROTECTORS

A05A BILE THERAPY

A5A BILE THERAPY AND CHOLAGOGUES

A05B LIVER THERAPY, LIPOTROPICS

A5B HEPATIC PROTECTORS, LIPOTROPICS

A05C DRUGS FOR BILE THERAPY AND LIPOTROPICS IN COMBINATION

A5C CHOLAGOGUE/LIPOTROPIC COMBINATIONS

A06 LAXATIVES

A6 LAXATIVES

A06A LAXATIVES

A6A LAXATIVES

WHO (Substance based)

EphMRA (Product based)

A07 ANTIDIARRHEALS, INTESTINAL ANTIINFLAMMATORY / ANTIINFECTIVE AGENTS

A07A INTESTINAL ANTIINFECTIVES

A07B INTESTINAL ADSORBENTS

➤ Albumin and ceratonia are classified in A07X

A07C ELECTROLYTES WITH CARBOHYDRATES

A07D ANTIPROPULSIVES

A07E INTESTINAL ANTIINFLAMMATORY AGENTS

A07F ANTIDIARRHEAL MICROORGANISMS

A07X OTHER ANTIDIARRHEALS

➤ Albumin tannate and ceratonia are classified here

A08 ANTI OBESITY PREPARATIONS, EXCL. DIET PRODUCTS

A08A ANTI OBESITY PREPARATIONS, EXCL. DIET PRODUCTS

➤ Amphetamine is classified in N06B

A09 DIGESTIVES, INCL. ENZYMES

A09A DIGESTIVES, INCL. ENZYMES

A7 ANTIDIARRHOEALS, ORAL ELECTROLYTE REPLACERS AND INTESTINAL ANTIINFLAMMATORIES

A7A INTESTINAL ANTIINFECTIVE ANTIDIARRHOEALS

A7B INTESTINAL ABSORBANT ANTIDIARRHOEALS

A7G ORAL ELECTROLYTE REPLACERS

A7H MOTILITY INHIBITORS

A7E INTESTINAL ANIINFLAMMATORY AGENTS

A7F ANTIDIARRHOEAL MICRO-ORGANISMS

A7X ALL OTHER ANTIDIARRHOEALS

➤ Albumin tannate and ceratonia are classified in A7B

A8 ANTI OBESITY PREPARATIONS, EXCL. DIETETICS

A8A ANTI OBESITY PREPARATIONS, EXCL. DIETETICS

Amphetamine, when indicated as antiobesity product, is classified here

A9 DIGETIVES, INCL. DIGESTIVE ENZYMES

A9A DIGESTIVES, INCL. DIGESTIVE ENZYMES

WHO (Substance based)

EphMRA (Product based)

A10 DRUGS USED IN DIABETES

A10A INSULINS and ANALOGUES

A10B ORAL BLOOD GLUCOSE LOWERING DRUGS

➤ Guar gum is classified here

➤ Exenatide is classified here

A10X OTHER DRUGS USED IN DIABETES

Includes aldose reductase inhibitors

➤ Guar gum is classified in A10B

➤ Exenatide is classified in A10B

➤ Thiocotic acid is classified in A16A

A11 VITAMINS

➤ Vitamin B₁₂ is classified in B03

A12 MINERAL SUPPLEMENTS

A12A CALCIUM

A12B POTASSIUM

A12C OTHER MINERAL SUPPLEMENTS

A10 DRUGS USED IN DIABETES

A10C HUMAN INSULINS and ANALOGUES

+

A10D ANIMAL INSULINS

A10B ORAL ANTIDIABETICS

➤ Guar gum is classified in A10X

➤ Exenatide is classified in A10X

A10X OTHER DRUGS USED IN DIABETES

➤ Guar gum is classified here

➤ Exenatide is classified here

➤ Thiocotic acid is classified here or A16A

A11 VITAMINS

Vitamin B₁₂ is classified in A11F, which is a code only used in the EphMRA/PBIRG system

A12 MINERAL SUPPLEMENTS

A12A CALCIUM PRODUCTS

A12B POTASSIUM PRODUCTS

A12C OTHER MINERAL SUPPLEMENTS

WHO (Substance based)

EphMRA (Product based)

A13 TONICS

A13A TONICS

A13 TONICS

A13A TONICS

The large number of products in this class make it impossible to fully state that they are equal

A14 ANABOLIC AGENTS FOR SYSTEMIC USE

A14A ANABOLIC STEROIDS

A14B OTHER ANABOLIC AGENTS

A14 ANABOLICS, SYSTEMIC

A14A ANABOLIC HORMONES, SYSTEMIC

A14B OTHER ANABOLIC AGENTS, SYSTEMIC

A15 APPETITE STIMULANTS

- Cyproheptadine is classified in R06A
- Pizotifen is classified in N02C

A15 APPETITE STIMULANTS

- Cyproheptadine **when indicated as appetite stimulant, is classified here**, otherwise is classified in R6A
- Pizotifen is classified here; when indicated for migraine, is classified in N2C

A16 OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS

A16A OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS

- Includes levocarnitine, ademetionine, thioctic acid

A16 OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS

A16A OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS

- Levocarnitine is classified here; when indicated for ischaemic disorders, is classified in C1X
- Ademetionine is classified in N6A
- Thioctic acid is classified here or in A10X
- Combinations of diabetes and cardiovascular products are classified here

WHO (Substance based)

EphMRA (Product based)

B BLOOD AND BLOOD FORMING ORGANS

B01 ANTITHROMBOTIC AGENTS

B01A ANTITHROMBOTIC AGENTS



B01A A Vitamin K antagonists

B01A B Heparin group

- *Antithrombin III is classified here*
- *Danaparoid is classified here*

B01A C Platelet aggregation inhibitors excl. heparin

- *Dipyridole is classified here*
- *Defibrotide is classified in B1A X*

B01A D Enzymes



- *Protein C and activated Protein C are classified here*

B01A E Direct thrombin inhibitors

B01A X Other antithrombotic agents

- *Defibrotide is classified here*

B02 ANTIHEMORRHAGICS

B BLOOD AND BLOOD FORMING ORGANS

B1 ANTITHROMBOTIC AGENTS



B1A VITAMIN K ANTAGONISTS

B1B HEPARINS

- *Antithrombin III is classified in B2C*
- *Danaparoid is classified in B1X*

B1C PLATELET AGGREGATION INHIBITORS

- *Dipyridole is classified here; when indicated for coronary therapy it is classified in C1D*
- *Defibrotide is classified here*

B1D FIBRINOLYTICS



- *Protein C and activated Protein C are classified in B1X*

B1E DIRECT THROMBIN INHIBITORS

B1X OTHER ANTITHROMBOTIC AGENTS

- *Defibrotide is classified in B1C*

B2 ANTIFIBRINOLYTICS, ANTIDOTES TO ANTI-

WHO (Substance based)

EphMRA (Product based)

B02A ANTIFIBRINOLYTICS

B02A A Amino acids

B02A B Proteinase inhibitors

B02B VITAMIN K AND OTHER HEMOSTATICS

B02B A Vitamin K

➤ *protamin is classified in VO3A*

B02B B Fibrinogen

B02B C ➤ Local hemostatics

B02B D Blood coagulation factors

B02B X Other systemic hemostatics

COAGULANTS, BLOOD COAGULATION & HAEMOSTYPTICS

B2A ANTIFIBRINOLYTICS

B2A ANTIFIBRINOLYTICS

B2C PROTEINASE INHIBITORS

B2B ANTAGONISTS (ANTIDOTES TO ANTICOAGULANTS)

B2B1 Vitamin K

B2B2 Protamin is classified here

B2F TISSUE SEALING PREPARATIONS

➤ *Local hemostatics are classified in D3A*

B2D BLOOD COAGULATION

B2G SYSTEMIC HAEMOSTATICS

WHO (Substance based)

EphMRA (Product based)

B03 ANTIANEMIC PREPARATIONS

B03A IRON PREPARATIONS

- All plain iron preparations and all combination products containing more than 30 mg Fe per defined daily dose (DDD), are classified here, even if they contain multivitamins.

B03B VITAMIN B12 AND FOLIC ACID



B03B A Vitamin B12 (cyanocobalamin and derivatives)

B03B B Folic acid and derivatives

- Folinic acid is classified in V03A

B03X OTHER ANTIANEMIC PREPARATIONS

B03X A Other antianemic preparations



B05 BLOOD SUBSTITUTES AND PERFUSION SOLUTIONS

B05A BLOOD AND RELATED PRODUCTS

B05A A Blood substitutes and plasma protein fractions

B3 ANTI-ANAEMIC PREPARATIONS

B3A HAEMATINICS, IRON & ALL COMBINATIONS

- Combinations of iron with multivitamins are classified in A11A.

B3B LIVER EXTRACTS AND COMBINATIONS WITH B12

+

A11F PLAIN VIT B12

B3X OTHER ANTI-ANAEMIC PRODUCTS, INCLUDING FOLIC ACID, FOLINIC ACID

- Folinic acid with more than one indication classified in V3D

B3C ERYTHROPOIETIN PRODUCTS



K HOSPITAL SOLUTIONS

K3B PROTEIN SOLUTIONS

+

K2 PLASMA EXPANDERS

WHO (Substance based)

EphMRA (Product based)

B05B I.V. SOLUTIONS

B05B A Solutions for parenteral nutrition

+

B05B B Solutions affecting the electrolyte balance

➤ *Trometamol is classified here*

B05B C Solutions producing osmotic diuresis

B05C IRRIGATING SOLUTIONS

B05D PERITONEAL DIALYTICS

B05X I.V. SOLUTION ADDITIVES

B05Z HEMODIALYTICS AND HEMOFILTRATES

B05Z A Hemodialytics, concentrates

B05Z B Hemofiltrates

B06 OTHER HEMATOLOGICAL AGENTS

B06A OTHER HEMATOLOGICAL AGENTS

K1 INTRAVENOUS SOLUTIONS

➤ *Trometamol is classified in K4B*

K1F SOLUTIONS FOR OSMOTIC THERAPY

K5 IRRIGATING SOLUTIONS

K6B PERITONEAL DIALYSIS SOLUTIONS

K4 INJECTION SOLUTIONS/INFUSION ADDITIVES

K6A HAEMODIALYSIS SOLUTIONS

K6C HAEMOFILTRATION

B6 ALL OTHER HEMATOLOGICAL AGENTS

❖

B6B HYALURONIDASE

+

B6C OTHER HEMATOLOGICAL AGENTS

WHO (Substance based)

EphMRA (Product based)

C **CARDIOVASCULAR SYSTEM**

C01 **CARDIAC THERAPY**

C01A CARDIAC GLYCOSIDES

C01B ANTIARRHYTHMICS, CLASS I AND III

- Adenosine is classified in C01E
-

C01C CARDIAC STIMULANTS EXCL. CARDIAC GLYCOSIDES

C01C A Adrenergic and dopaminergic agents

- *Caffeine, plain is classified in N06B*
 - *Heptaminol is classified in C01D*
 - *Dihydroergotamine is classified in N02C*
-

C01C E Phosphodiesterase Inhibitors



+

C01C X Other cardiac stimulants

C **CARDIOVASCULAR SYSTEM**

C1 **CARDIAC THERAPY**

C1A CARDIAC GLYCOSIDES AND COMBINATIONS

C1B ANTI-ARRHYTHMICS

- Adenosine is classified here
-

C1C **CARDIAC STIMULANTS EXCL. CARDIAC GLYCOSIDES**

C1C CARDIAC STIMULANTS EXCL. CARDIAC GLYCOSIDES

- *Caffeine, plain is classified here*
 - *Heptaminol is classified in this group*
 - *Dihydroergotamine is classified here and in N2C*
-

C1F POSITIVE INOTROPIC AGENTS

Includes substances such as amrinone, milrinone, fenoximone, piroximone, xamoterol

WHO (Substance based)

EphMRA (Product based)

C01D VASODILATORS USED IN CARDIAC DISEASES

C01D A Organic nitrates

- *Amyl nitrite is classified in V03A*

C01D B Quinolone vasodilators

C01D X Other Vasodilators used in cardiac diseases

- *Prenylamine is classified here*
- *Heptaminol is classified here*
- *Dipyramidol is classified in B01AC*
- *Trimetazidine is classified in C01E*

C1E NITRITES AND NITRATES

- *Amyl nitrite is classified here and V3A*

C1D CORONARY THERAPY EXCL. CALCIUM ANTAGONISTS AND NITRITES

- *Prenylamine is classified in C8A*
- *Heptaminol is classified in C1C*
- *Dipyramidol is classified here and in B1C*
- *Trimetazidine is classified here*

C01E OTHER CARDIAC PREPARATIONS

- *Adenosine is classified here*
- *Levocarnitine is classified in A016*
- *Trimetazidine is classified here*

C1X ALL OTHER CARDIAC PREPARATIONS

- *Adenosine is classified in C1B*
 - *Levocarnitine is classified in this group when indicated for ischaemic disorders (in A16 if for nutrition problems)*
-

WHO (Substance based)

C02 ANTIHYPERTENSIVES

- Mebutamate is classified in N05B
- Terazosin is classified in G04C
- Bosentan is classified here

EphMRA (Product based)

C2 ANTIHYPERTENSIVES

- Mebutamate is classified in C2A
 - Terazosin is classified here and in G4C
 - Bosentan is classified in C6A
-

WHO (Substance based)

EphMRA (Product based)

C03 DIURETICS

- Cicletanine is classified here

C3 DIURETICS

- Cicletanine is classified in C2A

CO4 PERIPHERAL VASODILATORS

CO4A PERIPHERAL VASODILATORS

- Cinnarzine and flunarizine are classified in N07C
- Nimodipine is classified in C08
- Citicoline is classified in N06B
- Visnadine is classified here

C4 CEREBRAL AND PERIPHERAL VASOTHERAPEUTICS

C4A CEREBRAL AND PERIPHERAL VASOTHERAPEUTICS

- Cinnarizine and flunarizine can be classified here and also in N2C and N7C depending on indications
 - Nimodipine is classified here
 - Citicoline is classified here
 - Visnadine is classified in C1D
-

WHO (Substance based)

EphMRA (Product based)

C05 VASOPROTECTIVES

C05A ANTIHEMORROIDALS FOR TOPICAL USE

C05B ANTIVARICOSE THERAPY

C05C CAPILLARY STABILIZING AGENTS



- Bosentan is classified in C2K
- Iloprost is classified here or in B1A
- Sildenafil is classified in G4B

C5 ANTIVARICOSIS/ANTIHAEMORRHOIDAL PREPARATIONS

C5A TOPICAL ANTI-HAEMORRHOIDALS

C5B VARICOSE THERAPY, TOPICAL

C5C VARICOSE THERAPY, SYSTEMIC

C6 OTHER CARDIOVASCULAR PRODUCTS

- Bosentan is classified here
 - Iloprost is classified here or in B1C depending on indication
 - Sildenafil is classified here or in G4E depending on indication
-

WHO (Substance based)

EphMRA (Product based)

C07 BETA BLOCKING AGENTS

C07A BETA BLOCKING AGENTS

C07B BETA BLOCKING AGENTS AND THIAZIDES

+

C07C BETA BLOCKING AGENTS AND OTHER DIURETICS

+

C07D BETA BLOCKING AGENTS, THIAZIDES AND OTHER
DIURETICS

+

C07E BETA BLOCKING AGENTS AND VASODILATORS

C07F BETA BLOCKING AGENTS AND OTHER
ANTIHYPERTENSIVES

- Combinations with calcium channel blockers are classified here

C7 BETA BLOCKING AGENTS

C7A BETA BLOCKING AGENTS, PLAIN

C7B BETA BLOCKING AGENTS, COMBINATIONS

- Combinations with calcium channel blockers are classified in C8B
-

WHO (Substance based)

EphMRA (Product based)

C08 CALCIUM CHANNEL BLOCKERS

- Nimodipine is classified here
- Prenylamine is classified in C01D X
- Combinations with beta blockers are classified in C07F

C8 CALCIUM ANTAGONISTS

- Nimodipine is classified in C4A
- Prenylamine is classified here
- Combinations with beta blockers are classified in C8B2

C8C SELECTIVE CCB with mainly VASCULAR EFFECT

+

C8D SELECTIVE CCB with DIRECT CARDIAC EFFECTS

+

C8E NON-SELECTIVE CALCIUM CHANNEL BLOCKERS

C8G CALCIUM CHANNEL BLOCKERS AND DIURETICS**C8A CALCIUM ANTAGONISTS, PLAIN**

C8B1 CALCIUM ANTAGONISTS COMBINATIONS WITH ANTIHYPERTENSIVES (C2) AND/OR DIURETICS**C8B2 CCB/BETABLOCKER COMBINATIONS****C8B3 CCB COMB. WITH OTHER DRUGS OF GROUP C, except C7-C10****C8B4 CCB COMBINATIONS WITH ALL OTHER DRUGS**

WHO (Substance based)

EphMRA (Product based)

C09	AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM
C09A	ACE INHIBITORS, PLAIN
C09B	ACE INHIBITORS, COMBINATIONS
C09C	ANGIOTENSIN II ANTAGONISTS, PLAIN
C09D	ANGIOTENSIN II ANTAGONISTS, COMBINATIONS
C09X	OTHER AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM

C9	AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM
C9A	ACE INHIBITORS, PLAIN
C9B	ACE INHIBITORS, COMBINATIONS
C9C	ANGIOTENSIN II ANTAGONISTS, PLAIN
C9D	ANGIOTENSIN II ANTAGONISTS, COMBINATIONS
C9X	OTHER AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM

C10	LIPID MODIFYING AGENTS
C10A	LIPID MODIFYING AGENTS, PLAIN
<i>C10A A</i>	<i>HMG CoA reductase inhibitors</i>
<i>C10A B</i>	<i>Fibrates</i>
<i>C10A C</i>	<i>Bile acid sequestrants</i>
<i>C10A D</i>	<i>Nicotinic acid and derivatives</i>
+	
<i>C10A X</i>	<i>Other lipid modifying agents</i>

❖	
C10B	LIPID MODIFYING AGENTS, COMBINATIONS



C10	LIPID-REGULATING/ANTI-ATHEROMA PREPARATIONS
C10A	CHOLESTEROL AND TRIGLYCERIDE REGULATING PREPARATIONS
<i>C10A 1</i>	<i>Statins (HMG-CoA reductase inhibitors)</i>
<i>C10A 2</i>	<i>Fibrates</i>
<i>C10A 3</i>	<i>Ion-exchange resins</i>
<i>C10A 9</i>	<i>All other cholesterol/triglyceride regulators</i>
<i>C10 B</i>	<i>ANTI-ATHEROMA PREPARATIONS OF NATURAL ORIGIN</i>
C10B	LIPID REGULATORS IN COMBINATION WITH OTHER LIPID REGULATORS

WHO (Substance based)

EphMRA (Product based)

➤ Lipid-regulating cardiovascular multitherapy combination products are classified here

➤ Lipid-regulating cardiovascular multitherapy combination products are classified in C11A



C11

CARDIOVASCULAR MULTI-THERAPY COMBINATION PRODUCTS



➤ Lipid-regulating cardiovascular multitherapy combination products are classified in C10B

C11A

LIPID-REGULATING CARDIOVASCULAR MULTI-THERAPY COMBINATION PRODUCTS

WHO (Substance based)

EphMRA (Product based)

D DERMATOLOGICALS

D01 ANTIFUNGALS FOR DERMATOLOGICAL USE

D01A ANTIFUNGALS FOR TOPICAL USE

- Topical metronidazole is mainly used for rosacea and is classified in D06B X
- Combinations with corticosteroids are classified here

D01B ANTIFUNGALS FOR SYSTEMIC USE

- Terbinafine is classified here

D02 EMOLLIENTS AND PROTECTIVES

D02A EMOLLIENTS AND PROTECTIVES

- + ➤ Aminobenzoic acid is classified in D02B

D02B PROTECTIVES AGAINST UV-RADIATION

- Betacarotene is classified here
- Aminobenzoic acid is classified here

D DERMATOLOGICALS

D1 ANTIFUNGALS, DERMATOLOGICAL

D1A1 Topical dermatological antifungals

- Products indicated for the treatment of rosacea are classified in D10A
- Combinations with corticosteroids are in D7B2

D1A2 Systemic dermatological Antifungals

- Terbinafine is classified in J2A

D2 EMOLLIENTS, PROTECTIVES

D2A EMOLLIENTS, PROTECTIVES

- Aminobenzoic acid is classified here

- Betacarotene is classified in D11A
-

WHO (Substance based)**EphMRA (Product based)**

D03	PREPARATIONS FOR TREATMENT OF WOUNDS AND ULCERS	D3	WOUND HEALING AGENTS
	➤ Local hemostatics are classified in B02B C		Local haemostatics are classified here
D3A	CICATRIZANTS	❖	
D3B	ENZYMES	❖	
D04	ANTIPRURITICS, INCL. ANTIHISTAMINES, ANESTHETICS, ETC.	D4	ANTIPRURITICS, INCL. TOPICAL ANTIHISTAMINES, ANAESTHETICS, ETC.
D04A	ANTIPRURITICS, INCL. ANTIHISTAMINES, ANESTHETICS, ETC	D4	ANTIPRURITICS, INCL. ANTIHISTAMINES, ANAESTHETICS, ETC.
D05	ANTIPSORIATICS	D5	NONSTEROIDAL PRODUCTS FOR INFLAMMATORY SKIN DISORDERS
D05A	ANTIPSORIATICS FOR TOPICAL USE	D5A	TOPICAL ANTIPSORIASIS PRODUCTS
D05B	ANTIPSORIATICS FOR SYSTEMIC USE	D5B	SYSTEMIC ANTIPSORIASIS PRODUCTS
	➤ Alefacept is classified in L4A		➤ Alefacept is classified here
❖		D5X	OTHER NONSTEROIDAL PRODUCTS FOR INFLAMMATORY SKIN DISORDERS

WHO (Substance based)

EphMRA (Product based)

D06 ANTIBIOTICS AND CHEMOTHERAPEUTICS FOR DERMATOLOGICAL USE

- Metronidazole for the treatment of rosacea is classified here
- Dressings with anti-infectives are classified in D09A A

D6A ANTIBIOTICS FOR TOPICAL USE

D6B CHEMOTHERAPEUTICS FOR TOPICAL USE

(- D6B B)

D06B B Antivirals

D6C ANTIBIOTICS AND CHEMOTHERAPEUTICS, COMBINATIONS

D07 CORTICOSTEROIDS, DERMATOLOGICAL PREPARATIONS

D07A CORTICOSTEROIDS, PLAIN

D07B CORTICOSTEROIDS, COMBINATIONS WITH ANTISEPTICS

+

D07C CORTICOSTEROIDS, COMBINATIONS WITH ANTIBIOTICS

+

D07X CORTICOSTEROIDS, OTHER COMBINATIONS

D6 TOPICAL ANTIBIOTICS, SULPHONAMIDES AND ANTIVIRALS

➤ Metronidazole for treatment of rosacea is classified in D10A

➤ Dressings with anti-infectives are classified here

D6A TOPICAL ANTIBIOTICS AND/OR SULPHONAMIDES

D6A TOPICAL ANTIBIOTICS AND/OR SULPHONAMIDES

D6D TOPICAL ANTIVIRALS INFECTION PRODUCTS

❖ Included in D6A

D7 TOPICAL CORTICOSTEROIDS

D7A PLAIN TOPICAL CORTICOSTEROIDS

D7B TOPICAL CORTICOSTEROID COMBINATIONS

❖

❖

WHO (Substance based)

EphMRA (Product based)

D08 ANTISEPTICS AND DISINFECTANTS

D8 ANTISEPTICS AND DISINFECTANTS

D08A ANTISEPTICS AND DISINFECTANTS

D8A ANTISEPTICS AND DISINFECTANTS

D09 MEDICATED DRESSINGS



❖ THE PRODUCTS OF THIS CLASS HAVE BEEN ALLOCATED TO THE DIFFERENT GROUPS

D09A MEDICATED DRESSINGS

This group comprises medicated dressings, ointment dressings etc. Liquid wound protectives are classified in D02A D – Liquid plasters. Local hemostatics, eg. Gauze, tampons etc. are classified in B02B C – Local hemostatics.

D09A A *Ointment dressings with antiinfectives*

Included in TOPICAL ANTIBIOTICS AND/OR SULPHONAMIDES

D6A

D09A B *Zinc bandages*

Included in TOPICAL ANTIPSORIASIS AND SIMILAR PRODUCTS

D5A

D09A X *Soft paraffin dressings*

Included in EMOLLIENTS, PROTECTIVES

D2A

WHO (Substance based)

EphMRA (Product based)

D10 ANTI-ACNE PREPARATIONS

D10A ANTI-ACNE PREPARATIONS FOR TOPICAL USE

- Metronidazole for the treatment of rosacea is classified in D06B

D10B ANTI-ACNE PREPARATIONS FOR SYSTEMIC USE

- Antibiotics, such as tetracyclines and erythromycin, which are also used for the treatment of acne are classified in group J
- Combinations of estrogen and antiandrogen, used for the treatment of acne, are classified in group G03 H

D10 ANTI-ACNE PREPARATIONS

D10A TOPICAL ANTI-ACNE PREPARATIONS

- Metronidazole for the treatment of rosacea is classified here

D10B ORAL ANTI-ACNE PREPARATIONS

- Antibiotic products, specifically indicated for the treatment of acne are classified here.
- Combinations of estrogen and cyproterone, specifically indicated for the treatment of acne, are classified here.

D11 OTHER DERMATOLOGICAL PREPARATIONS

D11A OTHER DERMATOLOGICAL PREPARATIONS

- Androgens for topical use are classified here
- Tacrolimus and pimecrolimus are classified here

D11 OTHER DERMATOLOGICAL PREPARATIONS

D11A OTHER DERMATOLOGICAL PREPARATIONS

- Androgens for topical use are in D3A
 - Tacrolimus is classified in D5X and L4A; pimecrolimus in D5X
-

WHO (Substance based)

EphMRA (Product based)

G GENITO URINARY SYSTEM AND SEX HORMONES

G01 GYNECOLOGICAL ANTIINFECTIVES AND ANTISEPTICS

- All oral and rectal dosage forms of imidazole derivatives are classified in P01A

G02 OTHER GYNAECOLOGICALS

- Analgesics used in dysmenorrhea are classified in N02B

G02A OXYTOCICS

- Oxytocin and demoxytocin are classified in H01B

G02B CONTRACEPTIVES FOR TOPICAL USE

- IUDs containing progestogens are classified here

G02C OTHER GYNECOLOGICALS

- Vaginal forms of estrogens are classified in G03C

G02C A Sympathomimetics, labor repressants



- Vaginal forms of estrogens are classified in G03C

G GENITO-URINARY SYSTEM AND SEX HORMONES

G1 GYNAECOLOGICAL ANTI-INFECTIVES

- Dosage forms used for treatment of gynaecological infections are classified here

G2 OTHER GYNAECOLOGICALS

- Analgesics indicated exclusively for dysmenorrhea are classified in G2X1

G2A LABOUR INDUCERS

- Oxytocin and demoxytocin are classified here

G2B TOPICAL CONTRACEPTIVES

- IUDs with progestogens are classified in G3A



- Vaginal forms of estrogens are classified in G2F

G2E LABOUR INHIBITORS

G2F TOPICAL SEX HORMONES

- Vaginal forms of estrogens are classified here

WHO (Substance based)

EphMRA (Product based)

- G02C B Prolactin inhibitors*
- *Lisuride tablets in high strength (0.2mg) are classified in this group, while low dose tablets (25 mcg) are classified in N02C*
 - *Bromocriptine low dose is classified here; high strength tablets are classified in N04B*
 - *Cabergoline low dose is classified here, high strength tablets are classified in N04B*

G02C C Antiinflammatory products for vaginal administration

+

G2C X Other gynaecologicals

G2D PROLACTIN INHIBITORS

- *Lisuride is classified in N4A*
- *Bromocriptine is classified here and N4A*
- *Cabergoline is classified here and N4A*

G2X OTHER GYNAECOLOGICAL PRODUCTS

G03 SEX HORMONES AND MODULATORS OF THE GENITAL SYSTEM

G3 SEX HORMONES AND PRODUCTS WITH SIMILAR DESIRED EFFECTS, SYSTEMIC ACTION ONLY

G03A HORMONAL CONTRACEPTIVES FOR SYSTEMIC USE

- IUDs with progestogens are classified in G02B

G3A HORMONAL CONTRACEPTIVES, SYSTEMIC

- IUDs with progestogens are classified here

G03B ANDROGENS

G3B ANDROGENS, EXCLUDING G3E, G3F

G03C ESTROGENS

- + Vaginal forms are classified here

G3C OESTROGENS, EXCLUDING G3A, G3E, G3F

- + Vaginal forms are classified in G2F

G03D PROGESTOGENS

- Tibolone is classified here
- Flumedroxone is classified in N02C

G3D PROGESTOGENS, EXCLUDING G3A,G3F

- Tibolone is classified in G3H
- Flumedroxone is classified here

WHO (Substance based)

EphMRA (Product based)

G03E	ANDROGENS AND FEMALE SEX HORMONES IN COMBINATION	G3E	ANDROGEN WITH FEMALE HORMONE COMBINATIONS
G03F	PROGESTOGENS AND ESTROGENS IN COMBINATION ➤ Estradiol and cyproterone in combination is classified in G03H B	G3F	OESTROGEN WITH PROGESTOGEN COMBINATIONS, EXCLUDING G3A ➤ Estradiol and cyproterone in combination is classified here
G03G	GONADOTROPHINS AND OTHER OVULATION STIMULANTS	G3G	GONADOTROPHINS, INCL.OTHER OVULATION STIMULANTS
G03H	ANTIANDROGENS ➤ All plain cyproterone preparations and combinations of cyproterone and estrogen regardless of indication	❖	
❖	raloxifene is classified in G03X	G3J	SERMS (SELECTIVE OESTROGEN RECEPTOR MODULATORS) ➤ raloxifene is classified here
G03X	OTHER SEX HORMONES AND MODULATORS OF THE GENITAL SYSTEM ➤ Tibolone is classified in G03D ➤ raloxifene is classified here	G03X	OTHER SEX HORMONES AND SIMILAR PRODUCTS ➤ Tibolone is classified here ➤ Products containing cyproterone are classified according to indication ➤ Combinations of estrogen and cyproterone are classified in D10B (DIANE 35) and G3F (CLIMEN) ➤ Raloxifene is classified in G3J

WHO (Substance based)

EphMRA (Product based)

G04 UROLOGICALS



- Urinary quinolones are in J01M
- Other urinary antibacterials are in J01X

G04B OTHER UROLOGICALS, INCL. ANTISPASMODICS

- Drugs used in erectile dysfunction are here in G04B E
- Urinary antispasmodics are here in G04B D

G04C DRUGS USED IN BENIGN PROSTATIC HYPERTROPHY



- Other urologicals are in G04B

G4 UROLOGICALS

G4A URINARY ANTI-INFECTIVES AND ANTISEPTICS

- Urinary quinolones are here in G04A2
- Other antiseptics and anti-bacterials are here in G4A9

❖ ➤ Other urologicals are in G4X with exceptions below

- Erectile dysfunction products are in G4E
- Urinary incontinence products are in G4D

G4C BPH (BENIGN PROSTATIC HYPERTROPHY) PRODUCTS

G4D URINARY INCONTINENCE PRODUCTS

G4E ERECTILE DYSFUNCTION PRODUCTS

G4X ALL OTHER UROLOGICAL PRODUCTS

WHO (Substance based)

EphMRA (Product based)

H SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES

The classification of these hormonal products is based according to the origin of the hormones and not according to their indication

H SYSTEMIC HORMONAL PREPARATIONS (EXCL. SEX HORMONES)

H01 PITUITARY AND HYPOTHALAMIC HORMONES AND ANALOGUES



H1 PITUITARY AND HYPOTHALAMIC HORMONES

H01A ANTERIOR PITUITARY LOBE HORMONES and ANALOGUES

H01A A ACTH

H1A ACTH

H01A B Thyrotrophin

Included in THYROID PREPARATIONS

H01A C Somatropin and somatropin agonists

H4C GROWTH HORMONES



H1AX Other anterior pituitary lobe hormones and analogues

➤ Pegvisomant is classified here

Pegvisomant is classified in H1C

H01B POSTERIOR PITUITARY LOBE HORMONES



H01B A Vasopressin and analogues

H4D ANTIDIURETIC HORMONES

➤ Terlipressin is classified here

➤ Terlipressin is classified in B2G

H01B B Oxytocin and analogues

G2A LABOUR INDUCERS

H01C HYPOTHALAMIC HORMONES

H1C HYPOTHALAMIC HORMONES

WHO (Substance based)

EphMRA (Product based)

H01C A GONADOTROPHIN-RELEASING HORMONES

H1C1 GONADOTROPHIN RELEASING HORMONES

H01C B ANTIGROWTH HORMONES

H1C2 ANTIGROWTH HORMONES

H01C C ANTI-GONADOTROPHIN-RELEASING HORMONES

H1C3 ANTIGONADOTROPHIN-RELEASING HORMONES

H02 CORTICOSTEROIDS FOR SYSTEMIC USE

H2 SYSTEMIC CORTICOSTEROIDS

H02A CORTICOSTEROIDS FOR SYSTEMIC USE, PLAIN

H2A SYSTEMIC CORTICOSTEROIDS, PLAIN

H02B CORTICOSTEROIDS FOR SYSTEMIC USE, COMBINATIONS

H2B SYSTEMIC CORTICOSTEROID COMBINATIONS

H02C ANTIADRENAL PREPARATIONS

❖

➤ Trilostane is classified here

➤ Trilostane is classified in H4V

H03 THYROID THERAPY

H3 THYROID THERAPY

H03A THYROID PREPARATIONS

H3A THYROID PREPARATIONS

➤ Thyrotrophin is classified in H01A

➤ Thyrotrophin is classified here

H03B ANTITHYROID PREPARATIONS

H3B ANTI-THYROID PREPARATIONS

H03C IODINE THERAPY

H3C IODINE THERAPY

H04 PANCREATIC HORMONES

❖



H04A GLYCOGENOLYTIC HORMONES

H4B GLUCAGON

H05 CALCIUM HOMEOSTASIS

❖

H05A PARATHYROID HORMONES AND ANALOGUES

Included in OTHER HORMONES AND PREPARATIONS WITH SIMILAR

WHO (Substance based)

EphMRA (Product based)

↻		H4V	ACTIONS
H05B	ANTI-PARATHYROID HORMONES	H4A	CALCITONINS
H05B A	Calcitonin preparations		
H05B B	Other anti-parathyroid agents		➤ Cinacalcet is classified in A11C2

WHO (Substance based)

EphMRA (Product based)

J ANTIINFECTIVES FOR SYSTEMIC USE

J01 ANTIBACTERIALS FOR SYSTEMIC USE

J01A TETRACYCLINES

J01B AMPHENICOLS

J01C BETA-LACTAM ANTIBACTERIALS, PENICILLINS

J01D OTHER BETA LACTAM ANTIBACTERIALS

J01D B-E ➤ *First-fourth generation cephalosporins*

➤ *Loracarbef is classified here in J01D C*

J01D F *Monobactams*

J01D H *Carbapenems*

J01E SULFONAMIDES AND TRIMETHOPRIM

J01F MACROLIDES, LINCOSAMIDES and STREPTOGRAMINS

J GENERAL ANTI-INFECTIVES SYSTEMIC

J1 SYSTEMIC ANTIBACTERIALS

J1A TETRACYCLINES AND COMBINATIONS

J1B CHLORAMPHENICOL AND COMBINATIONS

J1C BROAD SPECTRUM PENICILLINS

+

J1H MEDIUM AND NARROW SPECTRUM PENICILLINS

+

J1L CARBENICILLIN AND SIMILAR TYPES

⊖

J1D *CEPHALOSPORINS*

J1D1-2 ➤ *Oral – injectable cephalosporins*

➤ *Loracarbef is classified in J1P3*

J1P1 *Monobactams*

J1P2 *Carbapenems*

J1E TRIMETHOPRIM AND SIMILAR FORMULATIONS

+

J3A SYSTEMIC SULFONAMIDES

J1F MACROLIDES AND SIMILAR TYPES

WHO (Substance based)

EphMRA (Product based)

J01G AMINOGLYCOSIDE ANTIBACTERIALS

J1K AMINOGLYCOSIDES

J01M QUINOLONE ANTIBACTERIALS

J1G FLUOROQUINOLONES

➤ *Urinary quinolones are in G4A2*

J01R COMBINATIONS OF ANTIBACTERIALS

⊖

⊖

➤ *Monobactams, carbapenems, carbacephems are classified in J01D*

J1P OTHER BETA-LACTAM ANTIBACTERIALS, EXCLUDING PENICILLINS, CEPHALOSPORINS

➤ *Monobactams, carbapenems, carbacephems are classified here*

J01X OTHER ANTIBACTERIALS

J1X OTHER ANTIBACTERIALS

J02 ANTIMYCOTICS FOR SYSTEMIC USE

J2 SYSTEMIC AGENTS FOR FUNGAL INFECTIONS

❖

J3 SYSTEMIC SULPHONAMIDES

J04 ANTIMYCOBACTERIALS

J4 ANTIMYCOBACTERIALS

J04A DRUGS FOR TREATMENT OF TUBERCULOSIS

J4A DRUGS FOR THE TREATMENT OF TUBERCULOSIS

➤ *Rifampicin and rifamycin are classified here*

➤ *Rifampicin and rifamycin are classified here and in J1M*

J04B DRUGS FOR TREATMENT OF LEPROSY

J4B DRUGS FOR THE TREATMENT OF LEPROSY

J05 ANTIVIRALS FOR SYSTEMIC USE

J5 ANTIVIRALS FOR SYSTEMIC USE

J05A Direct acting antivirals

J5B ANTIVIRALS, excl. ANTI-HIV PRODUCTS

J5C HIV ANTIVIRALS

WHO (Substance based)

EphMRA (Product based)

J06 IMMUNE SERA AND IMMUNOGLOBULINS

J6 SERA AND GAMMA-GLOBULIN

J07 VACCINES

J7 VACCINES

❖

J8 OTHER ANTI-INFECTIVES

WHO (Substance based)**EphMRA (Product based)**

L	ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS	L	ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS
L01	ANTINEOPLASTIC AGENTS	L1	CYTOSTATICS
L01A	ALKYLATING AGENTS ➤ Altretamine is classified in L01X	L1A	ALKYLATING AGENTS ➤ Altretamine is classified here
L01B	ANTIMETABOLITES	L1B	ANTIMETABOLITES
L01C	PLANT ALKALOIDS AND OTHER NATURAL PRODUCTS	L1C	VINCA ALKALOIDS AND OTHER PLANT PRODUCTS
L1D	CYTOTOXIC ANTIBIOTICS AND RELATED SUBSTANCES	L1D	CYTOSTATIC ANTINEOPLASTICS
L01X	OTHER ANTINEOPLASTIC AGENTS ➤ Altretamine is classified here ➤ Aminolevulinic acid is classified here.	L1X	ALL OTHER ANTINEOPLASTICS ➤ Altretamine is classified in L1A ➤ Aminolevulinic acid is classified in D5X
L01X A	Platinum compounds	L1X2	Platinum compounds
L01X B	Methylhydrazines	L1X9	
L01X C	Monoclonal Antibodies	L1X3	Antineoplastic Monoclonal Antibodies
L01X D	Agents used in photodynamic therapy	L1X9	
L01X E	Protein kinase inhibitors	L1X9	
L01X X	Other antineoplastic agents	L1X1	Adjuvants preparations for cancer therapy
		+	

WHO (Substance based)**EphMRA (Product based)**

		L1X9	All other antineoplastics
L02	ENDOCRINE THERAPY	L2	CYTOSTATIC HORMONE THERAPY
L02A	HORMONES AND RELATED AGENTS	L2A	CYTOSTATIC HORMONES
L02A A	<i>Estrogens</i>	L2A1	<i>Cytostatic oestrogens</i>
L02A B	<i>Progestogens</i>	L2A2	<i>Cytostatic progestogens</i>
L02A E	<i>Gonadotrophin releasing hormone analogues</i>	L2A3	<i>Cytostatic gonadotrophin releasing hormone analogues</i>
L02A X	<i>Other Hormones</i>	L2A9	<i>Other cytostatic hormones</i>
L02B	HORMONE ANTAGONISTS AND RELATED AGENTS	L2B	CYTOSTATIC HORMONE ANTAGONISTS
L02B A	<i>Anti-estrogens</i>	L2B1	<i>Cytostatic anti-estrogens</i>
L02B B	<i>Anti-androgens</i>	L2B1	<i>Cytostatic anti-androgens</i>
L02B G	<i>Enzyme inhibitors</i>	L2B3	<i>Cytostatic aromatase inhibitors</i>
❖	<i>Fulvestrant is classified in L2B A</i>	L2B9	<i>Other cytostatic hormone antagonists</i>
L03	IMMUNOSTIMULANTS	L3	IMMUNOMODULATING AGENTS
L03A	CYTOKINES AND IMMUNOMODULATORS	L3A	IMMUNOSTIMULATING AGENTS, EXCL. INTERFERONS
	➤ Levamisole is classified in PO2CE		➤ Levamisole, when indicated as immunostimulant, is classified here
	➤ Melanoma vaccine is classified here		➤ Melanoma vaccine is classified in J7C
L03A A	Colony stimulating factors	L3A1	COLONY STIMULATING FACTORS

WHO (Substance based)

EphMRA (Product based)

L03A C + L03A X	Interleukins + Other cytokines and immunomodulators	L3A9	All other immunostimulating agents excluding interferons
L03A B	INTERFERONS	L3B	INTERFERONS
L04	IMMUNOSUPPRESSIVE AGENTS	L4	IMMUNOSUPPRESSIVE AGENTS
L04A	IMMUNOSUPPRESSIVE AGENTS ➤ Alefacept is classified here	L4A	IMMUNOSUPPRESSIVE AGENTS ➤ Alefacept is classified in D5B

WHO (Substance based)

EphMRA (Product based)

M MUSCULO-SKELETAL SYSTEM

M01 ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS

M01A ANTIINFLAMMATORY and ANTIRHEUMATIC PRODUCTS, NON STEROIDS

- This group comprises antiinflammatory preparations for systemic use, regardless of strength
- Mefenamic acid is classified here
- Ketorolac is classified here

M01B ANTIINFLAMMATORY/ANTIRHEUMATIC AGENTS IN COMBINATION

M01B A Antiinflammatory/antirheumatic agents in combination with corticosteroids

M01C SPECIFIC ANTIRHEUMATIC AGENTS

- Chloroquine is classified in P01B

M02 TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN

M02A TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN

- Bendazac is classified here
- Bufexamac is classified here

M MUSCULO-SKELETAL SYSTEM

M1 ANTIINFLAMMATORY AND ANTI-RHEUMATIC PRODUCTS

M1A ANTI-RHEUMATIC, NON STEROIDAL

- Anti-inflammatory analgesics used for both musculo-skeletal conditions and analgesia are classified in M01A. Those that are indicated mainly for general pains are in N2B.
- Mefenamic acid is classified in N2B
- Ketorolac is classified in N2B

M1B ANTI-RHEUMATIC CORTICOSTEROID COMBINATIONS

M1C SPECIFIC ANTI-RHEUMATIC AGENTS

- Chloroquine is classified here and in P1D

M2 TOPICAL ANTI-RHEUMATICS

M2A TOPICAL ANTI-RHEUMATICS

- Bendazac is classified in D3A
- Bufexamac is also classified in D4A

WHO (Substance based)

EphMRA (Product based)

M03	MUSCLE RELAXANTS	M3	MUSCLE RELAXANTS
M03A	MUSCLE RELAXANTS, PERIPHERALLY ACTING AGENTS ➤ Dantrolene is classified in M03C	M3A	MUSCLE RELAXANTS, PERIPHERALLY ACTING ➤ Dantrolene is classified in this group
M03B	MUSCLE RELAXANTS, CENTRALLY ACTING AGENTS	M3B	MUSCLE RELAXANTS, CENTRALLY ACTING
M03C	MUSCLE RELAXANTS, DIRECTLY ACTING AGENTS ➤ Dantrolene is classified here	⊖	➤ Dantrolene is classified in M3A
M04	ANTI-GOUT PREPARATIONS	M4	ANTI-GOUT PREPARATIONS
M04A	ANTI-GOUT PREPARATIONS	M4A	ANTI-GOUT PREPARATIONS
M5 +	DRUGS FOR TREATMENT OF BONE DISEASES	M5	OTHER DRUGS FOR DISORDERS OF THE MUSCULO-SKELETAL SYSTEM
M05B	DRUGS AFFECTING BONE STRUCTURE AND MINERALIZATION ↻	M5B	BONE CALCIUM REGULATORS
M09	OTHER DRUGS FOR DISORDERS OF THE MUSCULO-SKELETAL SYSTEM	❖	
M09A A	<i>Quinine and DERIVATES</i>		
+			
M09A X	<i>Other drugs for disorders of the Musculo-skeletal system</i>	<i>Included in M5X</i>	<i>All other musculo-skeletal products</i>
M09A B	<i>Enzymes</i>	M6A	ANTI INFLAMMATORY ENZYMES

WHO (Substance based)

EphMRA (Product based)

N NERVOUS SYSTEM

N01 ANESTHETICS

N01A ANESTHETICS, GENERAL

- Fentanyl in combination with droperidol is classified here

N01B ANESTHETICS, LOCAL

N02 ANALGESICS



- All antiinflammatory products are classified in M01A, regardless of strength
- Analgesic/cold preparations are classified here intended for use as pain relief
- Analgesics indicated for dysmenorrhea are classified here

N02A OPIOIDS



- This classification is based solely on substances, not on legal status
- Dihydrocodeine is classified here

N02B OTHER ANALGESICS AND ANTIPYRETICS



N CENTRAL NERVOUS SYSTEM

N1 ANAESTHETICS

N1A ANAESTHETICS, GENERAL

- Phenoperidine, anileridine and fentanyl in combination with droperidol are classified in N2A

N1B ANAESTHETIC LOCAL

N2 ANALGESICS

- Anti-inflammatory analgesics used for both musculo-skeletal conditions and analgesia are classified in M01A. Those that are indicated mainly for general pains are in N2B.
- Analgesic/cold preparations are classified in R5A
- Products specifically indicated for dysmenorrhea are classified in G2X1

N2A NARCOTICS

- Includes all analgesics classified as narcotics in accordance with the legal definition of narcotic analgesics in each country
- Dihydrocodeine is classified in N2B

N2B NON-NARCOTICS AND ANTI-PYRETICS

WHO (Substance based)

EphMRA (Product based)

- N02C** **ANTIMIGRAINE PREPARATIONS**
- Dihydroergotamine which is also used in the treatment of hypotension, is classified in this group
 - Pizotifen is classified here
 - Lisuride (low dose) is classified here and in G02C (high dose)
 - Flumexoxone is classified here

- N2C** **ANTI MIGRAINE PREPARATIONS**
- Dihydroergotamine is classified here and also in C1C1
 - Pizotifen is classified here and in A15
 - Lisuride is classified in N4A
 - Flumexoxone is classified in G3D

N03 **ANTI-EPILEPTICS**

N3 **ANTI-EPILEPTICS**

N03A **ANTI-EPILEPTICS**

N3A **ANTI-EPILEPTICS**

N04 **ANTI-PARKINSON DRUGS**

N4 **ANTI-PARKINSON DRUGS**

- Lisuride is classified in N02C and in G02C

- Lisuride is classified here

N05 **PSYCHOLEPTICS**

N5 **PSYCHOLEPTICS**

The group is divided into therapeutic subgroups:

N05A – Antipsychotics

➡ N05B – Anxiolytics

➡ N05C – Hypnotics and sedatives

The group is divided into therapeutic subgroups:

N5A – Antipsychotics

➡ N5B – Hypnotic/Sedatives

➡ N5C – Tranquilizers

WHO (Substance based)

EphMRA (Product based)

-
- N05A ANTIPSYCHOTICS
- Lithium is classified here
 - Butaperazine is classified here

- N5A ANTIPSYCHOTICS
- Lithium is classified in N6A
 - Butaperazine is classified in A4A

-
- N05B ANXIOLYTICS
- Mebutamate is classified here
 - Mefenoxalone is classified here
 - Midazolam is classified in N05C

- N5C TRANQUILLISERS
- Mebutamate is classified in C2A
 - Metenoxalone is classified in M3B
 - Midazolam is classified here

-
- N05C HYPNOTICS AND SEDATIVES
- Midazolam is classified here

- N5B HYPNOTICS / SEDATIVES
- Midazolam is classified in N5C

N06 PSYCHOANALEPTICS

N6 PSYCHOANALEPTICS EXCL. ANTI-OBESITY PREPARATIONS

-
- N06A ANTIDEPRESSANTS
- Lithium is classified in N05A
 - Ademetionine is in A16A

- N06A ANTI-DEPRESSANTS
- Lithium is classified here
 - Ademetionine is classified here
-

WHO (Substance based)

EphMRA (Product based)

- N06B PSYCHOSTIMULANTS, agents used for ADHD and NOOTROPICS
- Dexamfetamine and metamfetamine are classified here
 - Caffeine is classified here
 - Citicoline is classified here
 - Atomoxetine is classified here

- N6B PSYCHOSTIMULANTS
- Dexamfetamine and metamfetamine are classified in this group and in A8
 - Plain caffeine is classified in C1C1
 - Citicoline is classified in C4A
 - Atomoxetine is classified in N7X

+
N6D NOOTROPICS

+
N6E NEUROTONICS AND OTHER MISCELLANEOUS PRODUCTS

N06C PSYCHOLEPTICS AND PSYCHOANALEPTICS IN COMBINATION

N6C PHSYCOLEPTIC-PSYCHOANALEPTIC COMBINATIONS

N06D ANTI-DEMENTIA DRUGS

N7D Anti-Alzheimer Products

N07
OTHER NERVOUS SYSTEM DRUG
➡

N7
OTHER CNS DRUGS

N07A PARASYMPATHOMIMETICS

❖ OTHER CNS DRUGS

- Nalorphine, naltrexone, naloxone and flumazenil are classified in V03A

Included in
N7X

- Nalorphine, naltrexone, naloxone and flumazenil are classified here.

WHO (Substance based)

EphMRA (Product based)

N07B DRUGS USED IN ADDICTIVE DISORDERS

N07B A *Drugs used in nicotine dependence*

➤ Bupropion is classified here

N07B B *Drugs used in alcohol dependence*

N07B C *Drugs used in opioid dependence*

N07C ANTIVERTIGO PREPARATIONS

N07X OTHER NERVOUS SYSTEM DRUGS



N7B ANTISMOKING PRODUCTS

➤ Bupropion is classified here and N6A (antidepressant)

N7E DRUGS USED IN ALCOHOL DEPENDENCE

N7F DRUGS USED IN OPIOID DEPENDENCE

N7C ANTIVERTIGO PREPARATIONS

Included in
N7X ALL OTHER CNS DRUGS

WHO (Substance based)

EphMRA (Product based)

P ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS

This group is subdivided according to types of parasites

P01 ANTIPROTOZOALS



P01A AGENTS AGAINST AMOEBIASIS AND OTHER PROTOZOAL DISEASES

- Systemic metronidazole is classified here and in J01XD
- Clioquinol, chlorquinaldol, tilbroquinol and glycobarsol are classified here

P PARASITOLOGY

P1 ANTI-PARASITIC PRODUCTS



P1A AMOEBICIDES

- Nitroimidazole derivatives are classified either in G1A or J8B
- Clioquinol, chlorquinaldol, tribroquinol and glycobarsol are classified in A7A

P01B ANTI-MALARIALS

- Chloroquine and hydroxychloroquine are classified here

P1D ANTI-MALARIALS

- Chloroquine and hydroxychloroquine are classified here and in M1C

P01C AGENTS AGAINST LEISHMANIASIS AND TRYPANOSOMIASIS



P1G OTHER ANTI-PARASITIC AGENTS

P02 ANTHELMINTICS



The anthelmintics are subdivided according to the main type of worms (i.e. trematodes, nematodes and cestodes) causing the

P1C SCHISTOSOMICIDES



+

P1B ANTHELMINTICS, EXCL. SCHISTOSOMICIDES

WHO (Substance based)

EphMRA (Product based)

infections

➤ Levamisole is classified here

➤ Levamisole is classified here in L3A

P03 **ECTOPARASITICIDES, INCL. SCABICIDES,
INSECTISIDES AND REPELLENTS**

P3 **ECTOPARASITICIDES, INCL. SCABICIDES, INSECTISIDES
AND REPELLENTS**

P03A ECTOPARASITICIDES, INCL. SCABICIDES

P3a ECTOPARASITICIDES, incl. SCABICIDES

P03B INSECTICIDES AND REPELLENTS

P3B INSECTICIDES AND REPELLENTS

➤ Dimethylphthalate is classified here

➤ Dimethylphthalate is classified in D4A

WHO (Substance based)

EphMRA (Product based)

R **RESPIRATORY SYSTEM****R01** **NASAL PREPARATIONS**

R01A DECONGESTANTS AND OTHER NASAL PREPARATIONS
FOR TOPICAL USE

R01B NASAL DECONGESTANTS FOR SYSTEMIC USE

R02 **THROAT PREPARATIONS**

R02A THROAT PREPARATIONS

- Preparations for the treatment of throat infections (lozenges for common cold condition) are classified here

R03 **DRUGS FOR OBSTRUCTIVE AIRWAY DISEASES**

This group is harmonized on the second level

- Azelastine is classified in R06
- Ketotifen is classified in R06A
- Terfenadine is classified in R06A

**R** **RESPIRATORY SYSTEM****R1** **NASAL PREPARATIONS**

R01A TOPICAL NASAL PREPARATIONS

R1B SYSTEMIC NASAL PREPARATIONS

R2 **THROAT PREPARATIONS**

R2A THROAT PREPARATIONS

- Products indicated for both the posterior part of the mouth and throat infections are classified in R2A or A1A depending on the main indication

R3 **ANTI-ASTHMA AND COPD PRODUCTS**

- Azelastine is classified here
- Ketotifen is classified here
- Terfenadine (Japan only) is classified here, in all other countries in R6A

R4 CHEST RUBS AND OTHER INHALANTS

WHO (Substance based)

EphMRA (Product based)

R05	COUGH AND COLD PREPARATIONS	R5	COUGH AND COLD PREPARATIONS
➡	<ul style="list-style-type: none">➤ Cold preparations with therapeutic levels of antiinfectives should be classified in ATC group J – Antiinfectives for systemic use➤ Cold preparations with therapeutic levels of analgesics/antiinflammatory agents should be classified in the respective N02/M01 groups		<ul style="list-style-type: none">➤ COUGH/COLD PREPARATIONS WITH ANTI-INFECTIVES (R5B)➤ COLD PREPARATIONS WITHOUT ANTI-INFECTIVES (R5A)
R05C	EXPECTORANTS, EXCL. COMBINATIONS WITH COUGH SUPPRESSANTS	R5C	EXPECTORANTS
R05D	COUGH SUPPRESSANTS, EXCL. COMBINATIONS WITH EXPECTORANTS	R5D	ANTITUSSIVES
	<ul style="list-style-type: none">➤ Cough suppressants with expectorants are in R05F		<ul style="list-style-type: none">➤ Cough suppressants combination preparations are here in R5D2
+			
R05F	COUGH SUPPRESSANTS AND EXPECTORANTS, COMBINATIONS	R5F	OTHER COUGH AND COLD PREPARATIONS
			<ul style="list-style-type: none">➤ This group includes combinations without clearly expectorating or antitussive effect, expectorant teas and lozenges / medical sweets for cough.
R05X	OTHER COLD COMBINATION PREPARATIONS	❖	

WHO (Substance based)

EphMRA (Product based)

R06 ANTIHISTAMINES FOR SYSTEMIC USE

R06A ANTIHISTAMINES FOR SYSTEMIC USE

- Antihistamines for systemic use are classified here
- Cyproheptadine is classified here
- Thiethylperazine is classified here
- Azelastine and ketotifen are classified here

R07 OTHER RESPIRATORY SYSTEM PRODUCTS

R07A OTHER RESPIRATORY SYSTEM PRODUCTS

R07A A LUNG SURFACTANTS

R07A B RESPIRATORY STIMULANTS

R07A X OTHER RESPIRATORY SYSTEM PRODUCTS

R6 SYSTEMIC ANTIHISTAMINES

R6A SYSTEMIC ANTIHISTAMINES

- Antihistamines used in motion sickness are classified in A4A
- Cyproheptadine is also classified in A15
- Thiethylperazine is classified in A4A
- Azelastine and ketotifen are classified in R3C

R7 OTHER RESPIRATORY SYSTEM PRODUCTS

R7C LUNG SURFACTANTS

R7A RESPIRATORY STIMULANTS

R7X ALL OTHER RESPIRATORY SYSTEM PRODUCTS

WHO (Substance based)

EphMRA (Product based)

S	SENSORY ORGANS	S	SENSORY ORGANS
S01	OPHTHALMOLOGICALS	S1	OPHTHALMOLOGICALS
S01A	ANTIINFECTIVES	S1A	OPHTHALMOLOGICAL ANTI-INFECTIVES
<i>S01A D</i>	<i>Antivirals</i>	+	
		S1D	OPHTHALMOLOGICAL ANTIVIRAL AGENTS
S01B	ANTIINFLAMMATORY AGENTS	S1B	OPHTHALMOLOGICAL CORTICOSTEROIDS
<i>S01B C</i>	<i>Antiinflammatory agents, non-steroids</i>	+	
		S1R	OPHTHALMIC NONSTEROIDAL ANTIINFLAMMATORIES
S01C	ANTIINFLAMMATORY AGENTS AND ANTIINFECTIVES IN COMBINATION	S1C	OPHTHALMOLOGICAL ANTI-INFLAMMATORY/ANTIINFECTIVE COMBINATIONS
S01E	ANTIGLAUCOMA PREPARATIONS AND MIOTICS	S1E	MIOTICS AND ANTIGLAUCOMA PREPARATIONS
S01F	MYDRIATICS AND CYCLOPLEGICS	S1F	MYDRIATICS AND CYCLOPLEGICS
S01G	DECONGESTANTS AND ANTIALLERGICS	S1G	OCULAR ANTI-ALLERGICS, DECONGESTANTS, ANTISEPTICS
S01H	LOCAL ANESTHETICS	S1H	OPHTHALMOLOGICAL LOCAL ANESTHETICS
S01J	DIAGNOSTIC AGENTS	S1T	OPHTHALMOLOGICAL DIAGNOSTIC AGENTS
S01K	SURGICAL AIDS	S1S	OPHTHALMOLOGICAL SURGICAL AIDS
S1L	ANTINEOVASCULARISATION AGENTS	S1P	OCULAR ANTINEOVASCULARISATION PRODUCTS

➤ Verteporfin, rostoporfin, pegaptanib are classified here.

WHO (Substance based)

EphMRA (Product based)

❖		S1K	ARTIFICIAL TEARS AND OCULAR LUBRICANTS
❖		S1L	PREPARATIONS FOR USE WITH CONTACT LENSES
❖		S1M	EYE TONICS and EYE VITAMINS
❖		S1N	PREPARATIONS TO PREVENT CATARACT AND ANTICATARACTOGENICS
S01X	OTHER OPHTHALMOLOGICALS	S1X	OTHER OPHTHALMOLOGICALS
S02	OTOLOGICALS	S2	OTOLOGICALS
S02A	ANTIINFECTIVES	S2A	OTIC ANTI-INFECTIVES
S02B	CORTICOSTEROIDS	S2B	OTIC CORTICOSTEROIDS
S02C	CORTICOSTEROIDS AND ANTIINFECTIVES IN COMBINATION	S2C	OTIC CORTICOSTEROID/ANTIINFECTIVE COMBINATIONS
S02D	OTHER OTOLOGICALS	S2D	OTHER OTOLOGICALS
S03	OPHTHALMOLOGICAL AND OTOLOGICAL PREPARATIONS	S3	OPHTHALMOLOGICAL/OTOLOGICAL COMBINATIONS
S03A	ANTIINFECTIVES	S3A	EYE/EAR ANTI-INFECTIVES
S03B	CORTICOSTEROIDS	S3B	EYE/EAR CORTICOSTEROIDS
S03C	CORTICOSTEROIDS AND ANTIINFECTIVES IN COMB.	S3C	EYE/EAR CORTICOSTEROID/ANTI-INFECTIVE COMBI.

WHO (Substance based)

EphMRA (Product based)

S03D OTHER OPHTHALMOLOGICAL AND OTOLOGICAL
PREPARATIONS

S3D OTHER EYE/EAR COMBINATIONS

WHO (Substance based)

EphMRA (Product based)

V	VARIOUS	V	VARIOUS
V1	ALLERGENES	V1	ALLERGENS
V01A	ALLERGENES	V1A	ALLERGENS
V3	ALL OTHER THERAPEUTIC PRODUCTS	V3	ALL OTHER THERAPEUTIC PRODUCTS
V3A	ALL OTHER THERAPEUTIC PRODUCTS	V3A	❖
V3A B	<i>ANTIDOTES</i>	V3E	ANTIDOTES
V3A C	<i>IRON CHELATING AGENTS</i>	V3F	IRON-CHELATING AGENTS
V3A E	<i>DRUGS FOR THE TREATMENT OF HYPERKALEMIA AND HYPERPHOSPHATEMIA</i>	V3G	HYPERKALAEMIA/HYPERPHOSPHATEMIA PRODUCTS
V3A F	<i>DETOXIFYING AGENTS FOR ANTINEOPLASTIC TREATMENT</i>	V3D	DETOXIFYING AGENTS FOR ANTINEOPLASTIC TREATMENT
V3A G – V3A Z		V3X	ALL OTHER THERAPEUTIC PRODUCTS
V4	DIAGNOSTIC AGENTS	❖	
		T	DIAGNOSTIC AGENTS
V4B	URINE TESTS	T2C	PREGNANCY AND OVULATION TESTS
		T2D1	Diabetes tests, urine
		T2X1	All other diagnostic tests, urine
V4C	OTHER DIAGNOSTIC AGENTS	T2X2 +	All other diagnostic tests, blood

WHO (Substance based)

EphMRA (Product based)

		T2X9	All other diagnostic tests
V4CA	Tests for diabetes	T2D2 +	Diabetes tests, blood
		T2D9	Diabetes tests, other
❖		T3	DIAGNOSTIC EQUIPMENT AND ACCESSORIES
V6	GENERAL NUTRIENTS	V6	DIETETIC AGENTS
V6A	DIET FORMULATIONS FOR TREATMENT OF OBESITY	V6A	SLIMMING PREPARATIONS
V6B	PROTEIN SUPPLEMENTS	V6B	PROTEIN SUPPLEMENTS
V6C	INFANT FORMULAS	V6C	INFANT FORMULAS
V6D	OTHER NUTRIENTS	V6D	OTHER NUTRIENTS
V7	ALL OTHER NON-THERAPEUTIC PRODUCTS	V7	ALL OTHER NON-THERAPEUTIC PRODUCTS
V7A	ALL OTHER NON-THERAPEUTIC PRODUCTS	V7A	ALL OTHER NON-THERAPEUTIC PRODUCTS
V8	CONTRAST MEDIA	❖	Classified in group T
V8A	X-RAY CONTRAST MEDIA, IODINATED	T1A +	LOW OSMOLAR ANGIO-UROGRAPHY
		T1B +	IONIC ANGIO-UROGRAPHY
		T1D	CHOLECYSTOGRAPHY AND CHOLANGIOGRAPHY
V8B	X.RAY CONTRAST MEDIA, NON-IODINATED	T1C	GASTROENTEROGRAPHY
V8C	MAGNETIC RESONANCE IMAGING CONTRAST MEDIA	T1E	MRI AGENTS
V8D	ULTRASOUND CONTRAST MEDIA	❖	

WHO (Substance based)

EphMRA (Product based)

		T1F	ULTRASOUND AGENTS
		T1X	OTHER IMAGING AGENTS
V9	DIAGNOSTIC RADIOPHARMACEUTICALS	❖	Classified in group T
		T1G	RADIODIAGNOSTIC AGENTS
V10	THERAPEUTIC RADIOPHARMACEUTICALS	V3C	RADIOPHARMACEUTICALS
V20	SURGICAL DRESSINGS	❖	
