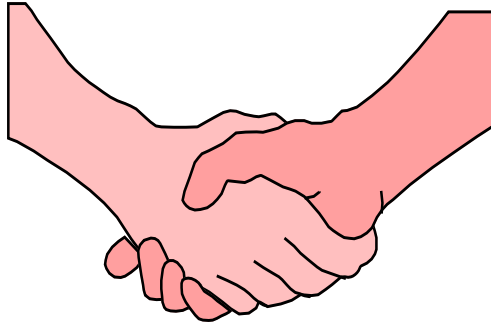


**EphMRA**

**Intellus**  
Worldwide 



**COMPARISON**

**OF THE**

**WHO ATC CLASSIFICATION**

**&**

**EphMRA/Intellus Worldwide ANATOMICAL  
CLASSIFICATION**

## VERSION November 2020

### Comparison of the WHO ATC Classification and EphMRA / Intellus Worldwide 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 ensure 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 C02A as antihypertensive agent, N02C as anti-migraine product and S01E 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/Intellus Worldwide 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, 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 is opportune to have a harmonised classification.

The main benefit is that all parties involved in a given topic, use the same definitions, same substances, and therefore the discussions are 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 current WHO/ATC Index 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. A03B)
- ↻ The heading or the content of this class may be different (e.g. N5C).
- These substances are classified in a different class
- + This class is covered by more than one EphMRA/Intellus Worldwide or WHO 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).

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” and for the EphMRA/Intellus Worldwide Anatomical classification system refer to “EphMRA / Intellus Worldwide classification”.

To obtain the guidelines please contact:

<p>Norwegian Institute of Public Health  WHO Collaborating Centre  for Drug Statistics  Methodology  P.O. Box 222 Skøyen,  N-0213 Oslo  Norway  email: <a href="mailto:whocc@fhi.no">whocc@fhi.no</a>  web: <a href="http://www.whocc.no">www.whocc.no</a></p>	<p>Bernadette Rogers  General Manager   c/o Streicher &amp; Brotschin  treuhand  Gartenstrasse 101  4052 Basel  Switzerland   <a href="mailto:generalmanager@ephmra.org">generalmanager@ephmra.org</a></p>	<p>Carol Reilly  Executive Director, Intellus  Worldwide  1758 Allentown Road, Box  209  Lansdale, PA 19446  USA  Telephone: [1] 215 855 5255  Fax: [1] 215 855 5622  Email: <a href="mailto:carol@intellus.org">carol@intellus.org</a></p>
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## WHO (Substance based)

## EphMRA (Product based)

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<b>A</b>	<b>ALIMENTARY TRACT AND METABOLISM</b>
<b>A01</b>	<b>STOMATOLOGICAL PREPARATIONS</b>
A01A	STOMATOLOGICAL PREPARATIONS
	➤ Preparations for the treatment of <b>throat</b> infections (lozenges for common cold conditions) are classified in <b>R02</b> - Throat preparations.
	➤ Cevimeline is classified in N7A.



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<b>A02</b>	<b>DRUGS FOR ACID RELATED DISORDERS</b>
A02A	ANTACIDS
	➤ Plain antilflatulents, 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)
	➤ Chlorbenzoxamine is classified in A03A.

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<b>A</b>	<b>ALIMENTARY TRACT AND METABOLISM</b>
<b>A1</b>	<b>STOMATOLOGICALS, MOUTH PREPARATIONS, MEDICINAL DENTIFRICES ETC.</b>
A1A	STOMATOLOGICALS
	➤ Products indicated for both the <b>posterior part of the mouth and throat</b> infections are classified in <b>R2A</b> or <b>A1A</b> depending on <b>their main indication</b> .
+	
	➤ Cevimeline is classified here.
A1B	MOUTH ANTIFUNGALS

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<b>A2</b>	<b>ANTACIDS, ANTIFLATULENTS AND ANTI-ULCERANTS</b>
A2A	ANTACIDS, ANTIFLATULENTS, CARMINATIVES
	➤ Plain antilflatulents are classified in this group.
A2B	ANTIULCERANTS
A2B1	H2 antagonists
A2B3	Prostaglandin antiulcerants
A2B2	Proton pump inhibitors
❖	Combinations for eradication of Helicobacter pylori are classified in A2B according to the antiulcerant.
A2B4	Bismuth antiulcerants
+	

## WHO (Substance based)

## EphMRA (Product based)

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		A2B9	All other antiulcerants ➤ Chlorbenzoxamine is classified here.
A02X	OTHER DRUGS FOR ACID RELATED DISORDERS	A2X	OTHER STOMACH DISORDER PRODUCTS
<b>A03</b>	<b>DRUGS FOR FUNCTIONAL GASTROINTESTINAL DISORDERS</b>	<b>A3</b>	<b>FUNCTIONAL GASTRO-INTESTINAL DISORDER DRUGS</b>
A03A	DRUGS FOR FUNCTIONAL GASTROINTESTINAL DISORDERS  ➤ Chlorbenzoxamine is classified here. ➤ Trimebutine is classified here. ➤ Alosetron is classified here (A03A E).	A3A	PLAIN ANTISPASMODICS AND ANTICHOLINERGICS  ➤ Chlorbenzoxamine is classified in A2B9. ➤ Trimebutine is classified in A3F. ➤ Alosetron is classified in A3G.
+			
A03B	BELLADONNA AND DERIVATIVES, PLAIN	❖	
A03C	ANTISPASMODICS IN COMBINATION WITH PSYCHOLEPTICS	A3C	ANTISPASMODIC/ATARACTIC COMBINATIONS
A03D	ANTISPASMODICS IN COMBINATION WITH ANALGESICS  ➤ Combinations with both psycholeptics and analgesics are classified in A03E A.	A3D	ANTISPASMODIC/ANALGESIC COMBINATIONS  ➤ Combination of both ataractic and analgesic are classified here.
A03E	ANTISPASMODICS AND ANTICHOLINERGICS IN COMBINATION WITH OTHER DRUGS		
A03E A	Antispasmodics, psycholeptics and analgesics in combination  ➤ Antispasmodics in combination with psycholeptics, analgesics and other agents are classified in this group.		➤ Combinations of both ataractics and analgesics are classified in A3D.
A03E D	Antispasmodics in combination with other drugs	A3E	ANTISPASMODICS COMBINED WITH OTHER PRODUCTS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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### A03F PROPULSIVES

- Trimebutine is classified in A03A.



- Alosetron is classified in A03A E.
- Tegaserod is classified in A06A X.
- Linaclotide is classified in A06A X.
- Lubiprostone is classified in A06A X.
- Plecanatide is classified in A06A X

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### A3F GASTROPROKINETICS

- Trimebutine is classified here.

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### A3G GASTRO-INTESTINAL SENSORIMOTOR MODULATORS

- Alosetron is classified here.
- Tegaserod is classified here.
- Linaclotide is classified here when indicated in IBS-c (290mcg), but in A6A when indicated in chronic constipation (145mcg); linaclotide for IBS-c and chronic constipation is classified here.
- Lubiprostone is classified here when indicated in IBS-c (8mcg), but in A6A when indicated in chronic constipation (24mcg).
- Plecanatide when indicated for both chronic constipation and IBS-c is classified here.
- Other drugs for constipation, including laxatives, are classified in A6A.

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### **A04 ANTIEMETICS AND ANTINAUSEANTS**

#### A04A ANTIEMETICS AND ANTINAUSEANTS

- Antihistamines are classified in R06A.

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### **A4 ANTIEMETICS AND ANTINAUSEANTS**

#### A4A ANTIEMETICS AND ANTINAUSEANTS

- Antihistamines used in motion sickness are classified here.

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### **A05 BILE AND LIVER THERAPY**

#### A05A BILE THERAPY

#### A05B LIVER THERAPY, LIPOTROPICS

#### A05C DRUGS FOR BILE THERAPY AND LIPOTROPICS IN COMBINATION

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### **A5 CHOLAGOGUES AND HEPATIC PROTECTORS**

#### A5A BILE THERAPY AND CHOLAGOGUES

#### A5B HEPATIC PROTECTORS, LIPOTROPICS

#### A5C CHOLAGOGUE/LIPOTROPIC COMBINATIONS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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### **A06 DRUGS FOR CONSTIPATION**

#### **A06A DRUGS FOR CONSTIPATION**

- Tegaserod is classified here.
- Linaclotide is classified here.
- Lubiprostone is classified here.
- Plecanatide is here

---

### **A6 DRUGS FOR CONSTIPATION AND BOWEL CLEANSERS**

#### **A6A DRUGS FOR CONSTIPATION**

- Tegaserod is classified in A3G.
- Linaclotide is classified here when indicated in chronic constipation (145mcg) but in A3G when indicated in IBS-c (290mcg).
- Lubiprostone is classified here when indicated in chronic constipation (24mcg) but in A3G when indicated in IBS-c (8mcg).
- Plecanatide is classified here when indicated for chronic constipation, but in A3G when also indicated for irritable bowel syndrome—constipation.

#### **A6B BOWEL CLEANSERS**

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### **A07 ANTIDIARRHEALS, INTESTINAL ANTIINFLAMMATORY / ANTIINFECTIVE AGENTS**

#### **A07A INTESTINAL ANTIINFECTIVES**

#### **A07B INTESTINAL ADSORBENTS**

- Ceratonia is classified in A07X.

#### **A07C ELECTROLYTES WITH CARBOHYDRATES**

#### **A07D ANTIPROPULSIVES**

#### **A07E INTESTINAL ANTIINFLAMMATORY AGENTS**

- Vedolizumab and darvadstrocel are classified in L04A.

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### **A7 INTESTINAL DISORDER PRODUCTS**

#### **A7A INTESTINAL ANTIINFECTIVES**

#### **A7B INTESTINAL ABSORBANT ANTIDIARRHOEALS**

- Ceratonia is classified here.

#### **A7G ORAL ELECTROLYTE REPLACERS**

#### **A7H MOTILITY INHIBITORS**

#### **A7E INFLAMMATORY BOWEL DISORDER PRODUCTS**

- Vedolizumab and darvadstrocel are classified here.



## **WHO (Substance based)**

## **EphMRA (Product based)**

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A07F ANTIDIARRHEAL MICROORGANISMS

A7F ANTIDIARRHOEAL MICRO-ORGANISMS

A07X OTHER ANTIDIARRHEALS

- Ceratonia is classified here.
- Telotristat is classified in A16A.

A7X INTESTINAL DISORDER PRODUCTS, OTHER

- Ceratonia is classified in A7B.
- Telotristat is classified here.

---

**A08 ANTI OBESITY PREPARATIONS, EXCL. DIET PRODUCTS**

**A8 ANTI OBESITY PREPARATIONS, EXCL. DIETETICS**

A08A ANTI OBESITY PREPARATIONS, EXCL. DIET PRODUCTS

- Amphetamine is classified in N06B.
- Liraglutide is classified in A10B.

A8A ANTI OBESITY PREPARATIONS, EXCL. DIETETICS

- Amphetamine, when indicated as antiobesity product, is classified here.
- Liraglutide for weight management only is classified here.

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**A09 DIGESTIVES, INCL. ENZYMES**

**A9 DIGESTIVES, INCLUDING ENZYMES**

A09A DIGESTIVES, INCL. ENZYMES

- Bromelains is classified in B06A A.
- Chymotrypsin and trypsin are classified in B06A A when used as haematological enzymes.

A9A DIGESTIVES, INCLUDING ENZYME

- Bromelains is classified here or, D3 and V3H depending on indications.
- Chymotrypsin is classified here or in C5B, D3A, M2A and V3H depending on indications.
- Trypsin is classified here or in V3H and V3X depending on indications.

---

**A10 DRUGS USED IN DIABETES**

**A10 DRUGS USED IN DIABETES**

A10A INSULINS and ANALOGUES

A10C HUMAN INSULINS and ANALOGUES

+

A10D ANIMAL INSULINS

---

## **WHO (Substance based)**

## **EphMRA (Product based)**

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### **A10B BLOOD GLUCOSE LOWERING DRUGS, EXCL. INSULINS**

- Guar gum is classified here.

A10H SULPHONYLUREA ANTIDIABETICS  
A10J BIGUANIDE ANTIDIABETICS  
A10K GLITAZONE ANTIDIABETICS  
A10L ALPHA-GLUCOSIDASE INHIBITOR ANTIDIABETICS  
A10M GLINIDE ANTIDIABETICS  
A10N DPP-IV INHIBITOR ANTIDIABETICS  
A10P SGLT2 INHIBITOR ANTIDIABETICS  
A10S GLP-1 AGONIST ANTIDIABETICS

- Liraglutide for weight management only is classified in A8A.
- 

### **A10X OTHER DRUGS USED IN DIABETES**

Includes aldose reductase inhibitors.

- Guar gum is classified in A10B.
- Thioctic acid is classified in A16A.
- Combinations of DPP-IV inhibitors with statins are classified in A10B H.

### **A10X OTHER DRUGS USED IN DIABETES**

A10X1 Antidiabetic multitherapy combination products.

Includes combinations of antidiabetics with cardiovascular drugs where the aim is to treat both the diabetes and the cardiovascular condition. Also includes combinations of antidiabetics with anti-obesity drugs where the aim is to treat both the diabetes and the obesity.

A10X9 Other drugs used in diabetes.

- Guar gum is classified here.
  - Thioctic acid is classified here or A16A.
- 

### **A11 VITAMINS**

Vitamin B<sub>12</sub> is classified in B03.

### **A11 VITAMINS**

- Vitamin B<sub>12</sub> is classified in A11F, which is a code only used in the EphMRA/Intellus Worldwide system.
  - High-dose single-ingredient biotin indicated for multiple sclerosis only is classified in N7A.
- 

### **A12 MINERAL SUPPLEMENTS**

#### **A12A CALCIUM**

Products indicated for hyperphosphatemia only are classified in V03AE.

### **A12 MINERAL SUPPLEMENTS**

#### **A12A CALCIUM PRODUCTS**

- Products indicated for hyperphosphatemia and calcium deficiency are classified in V03G2.

## **WHO (Substance based)**

## **EphMRA (Product based)**

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Other calcium supplement products are classified here.

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A12B POTASSIUM

A12B POTASSIUM PRODUCTS

A12C OTHER MINERAL SUPPLEMENTS

A12C OTHER MINERAL SUPPLEMENTS

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**A13 TONICS**

**A13 TONICS**

A13A TONICS

A13A TONICS

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

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**A14 ANABOLIC AGENTS FOR SYSTEMIC USE**

**A14 ANABOLICS, SYSTEMIC**

A14A ANABOLIC STEROIDS

A14A ANABOLIC HORMONES, SYSTEMIC

A14B OTHER ANABOLIC AGENTS

A14B OTHER ANABOLIC AGENTS, SYSTEMIC

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**A15 APPETITE STIMULANTS**

**A15 APPETITE STIMULANTS**

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

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

## **WHO (Substance based)**

## **EphMRA (Product based)**

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**A16 OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS**

**A16A OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS**

- Includes levocarnitine, ademetionine, thioctic acid.
- Zinc acetate is classified here.
- Telotristat is classified here.
- Cerliponase alfa is classified here

**A16 OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS**

**A16A OTHER ALIMENTARY TRACT AND METABOLISM PRODUCTS**

- Levocarnitine is classified here but when indicated for ischaemic disorders, it 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 in A10X1.
  - Zinc acetate is classified in V3E when indicated for Wilson's disease.
  - Telotristat is classified in A7X
  - Cerliponase alfa is classified in N7X
-

## WHO (Substance based)

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<b>B</b>	<b>BLOOD AND BLOOD FORMING ORGANS</b>
<b>B01</b>	<b>ANTITHROMBOTIC AGENTS</b>
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 B01A X.
	➤ Prostacyclin agonists (e.g. iloprost, selexipag, treprostinil, and epoprostenol) are classified here.
B01A D	Enzymes
☞	➤ Protein C and activated Protein C are classified here.
B01A E	Direct thrombin inhibitors
B01A F	Direct factor Xa inhibitors
B01A X	Other antithrombotic agents

## EphMRA (Product based)

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<b>B</b>	<b>BLOOD AND BLOOD FORMING ORGANS</b>
<b>B1</b>	<b>ANTITHROMBOTIC AGENTS</b>
☞	
B1A	VITAMIN K ANTAGONISTS
B1B	HEPARINS
	➤ Antithrombin III is classified in B2C.
	➤ Danaparoid is classified in B1X.
B1C	PLATETLET AGGREGATION INHIBITORS
	➤ Dipyridole is classified here; when indicated for coronary therapy it is classified in C1D.
	➤ Defibrotide is classified here.
	➤ Prostacyclin agonists (e.g. iloprost, selexipag, treprostinil) and indicated for pulmonary hypertension only are classified in C6B3.
	➤ Epoprostenol is classified in C6B3.
B1D	FIBRINOLYTICS
☞	➤ Protein C and activated Protein C are classified in B1X.
B1E	DIRECT THROMBIN INHIBITORS
B1F	DIRECT FACTOR XA INHIBITORS
B1X	OTHER ANTITHROMBOTIC AGENTS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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➤ Defibrotide is classified here.

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➤ Defibrotide is classified in B1C.

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### **B02 ANTIHEMORRHAGICS**

#### **B02A ANTIFIBRINOLYTICS**

B02A A Amino acids

B02A B Proteinase inhibitors

➤ Alfa 1 antitrypsin (alpha-1-proteinase inhibitor) is classified here.

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#### **B02B VITAMIN K AND OTHER HEMOSTATICS**

B02B A Vitamin K

➤ Protamin is classified in V03A.

➤ Idarucizumab and andexanet alfa are classified in V03A

B02B B Fibrinogen

B02B C Local hemostatics

B02B D Blood coagulation factors

➤ Emicizumab is classified in B02B X

❖

➤ Eltrombopag, romiplostim, lusutrombopag, and avatrombopag are classified in B02B X.

B02B X Other systemic hemostatics

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### **B2 BLOOD COAGULATION SYSTEM, OTHER PRODUCTS**

#### **B2A ANTIFIBRINOLYTICS**

B2C PROTEINASE INHIBITORS

➤ Alpha-1-proteinase inhibitor (alfa 1 antitrypsin) is classified in R3X.

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#### **B2B ANTAGONISTS (ANTIDOTES TO ANTICOAGULANTS)**

B2B1 Vitamin K

B2B2 Protamin sulphate

B2B9 Antidotes to anticoagulants, other

➤ Idarucizumab and andexanet alfa are classified here.

B2F TISSUE SEALING PREPARATIONS

➤ Local haemostatics are classified in D3A

B2D BLOOD COAGULATION

➤ Emicizumab is classified here.

B2E THROMBOPOIETIN AGONISTS

➤ Eltrombopag, romiplostim, lusutrombopag, and avatrombopag are classified here.

B2G SYSTEMIC HAEMOSTATICS

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## **WHO (Substance based)**

- Eltrombopag, romiplostim, lusutrombopag, and avatrombopag are classified here.
- Emicizumab is classified here.

## **EphMRA (Product based)**

- Eltrombopag, romiplostim, lusutrombopag, and avatrombopag are classified in B2E.
- Parenteral conjugated oestrogens for control of uterine bleeding are classified here.
- Emicizumab is classified in B2D.

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### **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.

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#### **B03B VITAMIN B12 AND FOLIC ACID**



B03B A Vitamin B12 (cyanocobalamin and analogues)

B03B B Folic acid and derivatives

- Folinic acid is classified in V03A.

+

B03X OTHER ANTIANEMIC PREPARATIONS



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### **B05 BLOOD SUBSTITUTES AND PERFUSION SOLUTIONS**

B05A BLOOD AND RELATED PRODUCTS

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### **B3 ANTI-ANAEMIC PREPARATIONS**

#### **B3A HAEMATINICS, IRON & ALL COMBINATIONS**

- Combinations of iron with multivitamins are classified in A11A.

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#### **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

B3D HIF-PH INHIBITORS

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### **K HOSPITAL SOLUTIONS**



K3B PROTEIN SOLUTIONS

## **WHO (Substance based)**

## **EphMRA (Product based)**

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		+	
B05A A	Blood substitutes and plasma protein fractions	K2	PLASMA EXPANDERS
B05B	I.V. SOLUTIONS		
B05B A	Solutions for parenteral nutrition	K1	INTRAVENOUS SOLUTIONS
	+		
B05B B	Solutions affecting the electrolyte balance ➤ Trometamol is classified here.		➤ Trometamol is classified in K4B.
B05B C	Solutions producing osmotic diuresis	K1F	SOLUTIONS FOR OSMOTIC THERAPY
B05C	IRRIGATING SOLUTIONS	K5	IRRIGATING SOLUTIONS
B05D	PERITONEAL DIALYTICS	K6B	PERITONEAL DIALYSIS SOLUTIONS
B05X	I.V. SOLUTION ADDITIVES	K4	INJECTION SOLUTIONS/INFUSION ADDITIVES
B05Z	HEMODIALYTICS AND HEMOFILTRATES		
B05Z A	Hemodialytics, concentrates	K6A	HAEMODIALYSIS SOLUTIONS
B05Z B	Hemofiltrates	K6C	HAEMOFILTRATION
<b>B06</b>	<b>OTHER HEMATOLOGICAL AGENTS</b>	<b>B6</b>	<b>ALL OTHER HAEMATOLOGICAL AGENTS</b>
B06A	OTHER HEMATOLOGICAL AGENTS	B6X	OTHER HAEMATOLOGICAL AGENTS
B06A A	Enzymes ➤ Chymotrypsin and trypsin are classified here when used as haematological enzymes.	B6B	HYALURONIDASE



## WHO (Substance based)

## EphMRA (Product based)

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B06A B Heme products

- Ruxolitinib is classified in L01X E.

B06A C DRUGS USED IN HEREDITARY ANGIOEDEMA



- Ruxolitinib for cancer only is classified in L1H9.

B6D HEREDITARY ANGIOEDEMA PRODUCTS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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**C      CARDIOVASCULAR SYSTEM**

**C01     CARDIAC THERAPY**

**C01A    CARDIAC GLYCOSIDES**

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**C01B    ANTIARRHYTHMICS, CLASS I AND III**

- Adenosine is classified in C01E.
  - Mexiletine is classified here.
- 

**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.
  - Angiotensin II is classified in C01CX.
- 

**C01C E    Phosphodiesterase Inhibitors**



**+**

**C01C X    Other cardiac stimulants**

- Angiotensin II is classified here.
- 

**C01D    VASODILATORS USED IN CARDIAC DISEASES**

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**C      CARDIOVASCULAR SYSTEM**

**C1     CARDIAC THERAPY**

**C1A    CARDIAC GLYCOSIDES AND COMBINATIONS**

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**C1B    ANTI-ARRHYTHMICS**

- Adenosine is classified here.
  - Mexiletine for cardiac arrhythmias is classified here; when indicated for non-dystrophic myotonic disorders it is classified in M5X.
- 

**C1C    CARDIAC STIMULANTS EXCL. CARDIAC GLYCOSIDES**

- Caffeine, plain is classified here.
  - +
  - Heptaminol is classified here.
  - Dihydroergotamine is classified here and in N2C.
  - Angiotensin II is classified here.
- 

**C1F    POSITIVE INOTROPIC AGENTS**

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

- Angiotensin II is classified in C1C.
-

## **WHO (Substance based)**

## **EphMRA (Product based)**

- 
- C01D A Organic nitrates
- Amyl nitrite is classified in V03A.
- C01D B Quinolone vasodilators
- Flosequinan is classified here.
- C01D X Other Vasodilators used in cardiac diseases
- Prenylamine is classified here.
  - Heptaminol is classified here.
  - Serelaxin is classified here.
  - Nesiritide is classified here.
  - Dipyramidol is classified in B01A C.
  - Trimetazidine is classified in C01E B.
  - Ivabradine is classified in C01E B.
  - Flosequinan is classified in C01D B.

- C1E NITRITES AND NITRATES
- Amyl nitrite is classified here and V3A.
- ❖
- Flosequinan is classified in C1D.
- 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.
  - Nesiritide is classified in C1X.
  - Trimetazidine is classified here.
  - Ivabradine is classified here.
  - Flosequinan is classified here.

- 
- C01E OTHER CARDIAC PREPARATIONS
- Adenosine is classified here.
  - Levocarnitine is classified in A016.
  - Trimetazidine is classified here.
  - Ivabradine is classified here.
  - Nesiritide is classified in C01D X.
  - Tafamidis is classified in N07X.

- 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).
  - Ivabradine is classified in C1D.
  - Nesiritide is classified here.
  - Tafamidis for transthyretin amyloid cardiomyopathy only is classified here; otherwise it is classified in N7X.
-

## **WHO (Substance based)**

## **EphMRA (Product based)**

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### **C02 ANTIHYPERTENSIVES**

- Mebutamate is classified in N05B.
- Terazosin is classified in G04C.
- Bosentan, ambrisentan, macitentan, riociguat and sitaxentan are classified in C02KX.

### **C2 ANTIHYPERTENSIVES**

- Mebutamate is classified in C2A.
- Terazosin is classified here and in G4C.
- Bosentan, ambrisentan, macitentan, riociguat and sitaxentan are classified in C6B.
- Indoramin for migraine is classified in N2C9.

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### **C03 DIURETICS**

- Cicletanine is classified here.

### **C3 DIURETICS**

- Cicletanine is classified in C2A.

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### **C04 PERIPHERAL VASODILATORS**

#### **C04A PERIPHERAL VASODILATORS**

- Cinnarizine and flunarizine are classified in N07C.
- Nimodipine is classified in C08.
- Citicoline is classified in N06B.

Visnadine is classified here.

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### **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)

<b>C05</b>	<b>VASOPROTECTIVES</b>	<b>C5</b>	<b>ANTIVARICOSIS/ANTIHAEMORRHOIDAL PREPARATIONS</b>
C05A	AGENTS FOR TREATMENT OF HEMORRHOIDS AND ANAL FISSURES FOR TOPICAL USE	C5A	TOPICAL ANTI-HAEMORRHOIDALS
C05B	ANTIVARICOSE THERAPY <ul style="list-style-type: none"><li>➤ Chymotrypsin is classified in B06A A when used as haematological enzymes.</li></ul>	C5B	VARICOSE THERAPY, <u>TOPICAL</u> <ul style="list-style-type: none"><li>➤ Chymotrypsin is classified here or in A9A, D3A, M2A and V3H depending on indications.</li></ul>
C05C	CAPILLARY STABILIZING AGENTS	C5C	VARICOSE THERAPY, <u>SYSTEMIC</u>
❖	<ul style="list-style-type: none"><li>➤ Bosentan, ambrisentan, macitentan, riociguat and sitaxentan are classified in C02K X.</li><li>➤ Sildenafil is classified in G04B E.</li><li>➤ Prostacyclin agonists (e.g. iloprost, selexipag, treprostinil epoprostenol) are classified in B01A C.</li></ul>	<b>C6</b>	<b>OTHER CARDIOVASCULAR PRODUCTS</b>
		C6B	PULMONARY ARTERIAL HYPERTENSION (PAH) PRODUCTS <ul style="list-style-type: none"><li>➤ Ambrisentan, bosentan, macitentan, riociguat and sitaxentan are classified here.</li><li>➤ PDE5 inhibitors indicated only for pulmonary arterial hypertension are classified here.</li><li>➤ Prostacyclin agonist PAH products (e.g. iloprost, selexipag, treprostinil) and indicated for pulmonary hypertension only are classified here.</li><li>➤ Epoprostenol is classified here.</li></ul>
		C6X	OTHER CARDIOVASCULAR PRODUCTS
<b>C07</b>	<b>BETA BLOCKING AGENTS</b>	<b>C7</b>	<b>BETA BLOCKING AGENTS</b>
C07A	BETA BLOCKING AGENTS	C7A	BETA BLOCKING AGENTS, PLAIN

## WHO (Substance based)

## EphMRA (Product based)

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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

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C07F B Beta blocking agents and calcium channel blockers  
C07F X Beta blocking agents, other combinations

C7B BETA BLOCKING AGENTS, COMBINATIONS

C8B2 Calcium antagonist/beta blocker combinations



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**C08 CALCIUM CHANNEL BLOCKERS**  
➤ Nimodipine is classified here.  
➤ Prenylamine is classified in C01D X.  
➤ Combinations with beta blockers are classified in C07F X.

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**C8 CALCIUM ANTAGONISTS**  
➤ Nimodipine is classified in C4A.  
➤ Prenylamine is classified here.  
➤ Combinations with beta blockers are classified in C8B2.

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C08C SELECTIVE CCB WITH MAINLY VASCULAR EFFECT  
+ ➤ Combination of amlodipine + celecoxib is classified here.

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C8A CALCIUM ANTAGONISTS, PLAIN  
➤ Combination of amlodipine + celecoxib is classified in C8B4.

C08D SELECTIVE CCB WITH DIRECT CARDIAC EFFECTS  
+  
C08E NON-SELECTIVE CALCIUM CHANNEL BLOCKERS

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C08G CALCIUM CHANNEL BLOCKERS AND DIURETICS

C8B1 CALCIUM ANTAGONISTS COMBINATIONS WITH ANTIHYPERTENSIVES (C2) AND/OR DIURETICS

## **WHO (Substance based)**

## **EphMRA (Product based)**

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❖		C8B2	CCB/BETABLOCKER COMBINATIONS
		C8B3	CCB COMB. WITH OTHER DRUGS OF GROUP C, except C7-C10
		C8B4	CCB COMBINATIONS WITH ALL OTHER DRUGS
			➤ Combination of amlodipine + celecoxib is classified here.
<b>C09</b>	<b>AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM</b>	<b>C9</b>	<b>AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM</b>
C09A	ACE INHIBITORS, PLAIN	C9A	ACE INHIBITORS, PLAIN
C09B	ACE INHIBITORS, COMBINATIONS	C9B	ACE INHIBITORS, COMBINATIONS
C09C	ANGIOTENSIN II RECEPTOR BLOCKERS (ARBs), PLAIN	C9C	ANGIOTENSIN II ANTAGONISTS, PLAIN
C09D	ANGIOTENSIN II RECEPTOR BLOCKERS (ARBs), COMBINATIONS	C9D	ANGIOTENSIN II ANTAGONISTS, COMBINATIONS
C09X	OTHER AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM	C9X	OTHER AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM
<b>C10</b>	<b>LIPID MODIFYING AGENTS</b>	<b>C10</b>	<b>LIPID-REGULATING/ANTI-ATHEROMA PREPARATIONS</b>
C10A	LIPID MODIFYING AGENTS, PLAIN	C10A	CHOLESTEROL AND TRIGLYCERIDE REGULATING PREPARATIONS
C10A A	HMG CoA reductase inhibitors	C10A 1	Statins (HMG-CoA reductase inhibitors)
C10A B	Fibrates	C10A 2	Fibrates

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## WHO (Substance based)

## EphMRA (Product based)

C10A C Bile acid sequestrants

❖ PCSK9 inhibitors is classified in C10AX

C10A D

+ Nicotinic acid and derivatives

C10A X Other lipid modifying agents

- Colestilan is classified in V03A.
- PCSK9 inhibitors are classified here.

❖

C10B LIPID MODIFYING AGENTS, COMBINATIONS

- Lipid-regulating cardiovascular multitherapy combination products are classified here.

❖

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

C10A 3 Ion-exchange resins

- Colestilan is also classified in V3G.

C10A4 PCSK9 inhibitors

C10A 9 All other cholesterol/triglyceride regulators

C10 B ANTI-ATHEROMA PREPARATIONS OF NATURAL ORIGIN

C10C LIPID REGULATORS IN COMBINATION WITH OTHER LIPID REGULATORS

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

**C11 CARDIOVASCULAR MULTI-THERAPY COMBINATION PRODUCTS**

C11A LIPID-REGULATING CARDIOVASCULAR MULTI-THERAPY COMBINATION PRODUCTS



## **WHO (Substance based)**

## **EphMRA (Product based)**

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### **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.

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##### **D01B ANTIFUNGALS FOR SYSTEMIC USE**

- Terbinafine is classified here.

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### **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.

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##### **D1A2 Systemic dermatological Antifungals**

- Terbinafine is classified in J2A.

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### **D2 EMOLLIENTS, PROTECTIVES**

#### **D2A EMOLLIENTS, PROTECTIVES**

- Aminobenzoic acid is classified here.

- Betacarotene is classified in D11A.
-

## **WHO (Substance based)**

## **EphMRA (Product based)**

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**D03 PREPARATIONS FOR TREATMENT OF WOUNDS AND ULCERS**

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- Local haemostatics are classified in B02B.
- Bromelains is classified in B06A A.
- Chymotrypsin is classified in B06A A when used as haematological enzymes.

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**D3 WOUND HEALING AGENTS**

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- Local haemostatics are classified here.
- Bromelains is classified here or in A9A and V3H depending on indications.

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**D03A CICATRIZANTS**

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**D03B ENZYMES**

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- D03B A
- Bromelains is classified here.



- Bromelains is classified in A9A, D3A or V3H depending on indications.

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**D04 ANTIPRURITICS, INCL. ANTIHISTAMINES, ANESTHETICS, ETC.**

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**D4 ANTIPRURITICS, INCL. TOPICAL ANTIHISTAMINES, ANAESTHETICS, ETC.**

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- D04A ANTIPRURITICS, INCL. ANTIHISTAMINES, ANESTHETICS, ETC
- Nalfurafine is classified in V03A.

- D4A ANTIPRURITICS, INCL. ANTIHISTAMINES, ANAESTHETICS, ETC.
- Nalfurafine is classified here.

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**D05 ANTIPSORIATICS**

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- Methoxsalen is classified in D05A or D05B, depending on formulation.

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**D5 NONSTEROIDAL PRODUCTS FOR INFLAMMATORY SKIN DISORDERS**

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- Methoxsalen when indicated for cancer therapy is classified in L1X8.

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**D05A ANTIPSORIATICS FOR TOPICAL USE**

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**D5A TOPICAL ANTIPSORIASIS PRODUCTS**

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## **WHO (Substance based)**

- D05B ANTIPSORIATICS FOR SYSTEMIC USE
- Alefacept, ixekizumab, secukinumab, risankizumab, ustekinumab, and apremilast are classified in L04A.
  - Methotrexate is classified in L01B and L04A.
- Tildrakizumab is classified in L04A.

## **EphMRA (Product based)**

- D5B SYSTEMIC ANTIPSORIASIS PRODUCTS
- Alefacept, ixekizumab, secukinumab, risankizumab, and ustekinumab when indicated for psoriasis are classified here.
  - Apremilast when indicated for only psoriatic skin conditions is classified here. When indicated for other conditions it is classified in L4X.
  - Ixekizumab, ustekinumab and secukinumab when indicated for psoriasis and also for other conditions is classified in L4C.
  - Methotrexate is classified in D5B, M1C and L1B.
  - Tildrakizumab is classified here.



- Topical tacrolimus is classified in D11A.
- Alitretinoin is classified in D11A.
- Dupilumab is classified in D11A

- D5X OTHER NONSTEROIDAL PRODUCTS FOR INFLAMMATORY SKIN DISORDERS
- Topical tacrolimus is classified here.
  - Alitretinoin is classified in here when indicated for the treatment of eczema, and in L1X1 when indicated to treat cutaneous lesions in Kaposi's sarcoma.
  - Products containing ingenol mebutate or diclofenac gel that are indicated for actinic keratosis are classified here
  - Dupilumab is classified here when indicated for the treatment of atopic dermatitis, and in L4C when also indicated for asthma.

## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>D06</b>	<b>ANTIBIOTICS AND CHEMOTHERAPEUTICS FOR DERMATOLOGICAL USE</b> <ul style="list-style-type: none"><li>➤ Metronidazole for the treatment of rosacea is classified here.</li><li>➤ Dressings with anti-infectives are classified in D09A A.</li></ul>	<b>D6</b>	<b>TOPICAL ANTIBACTERIALS AND ANTIVIRALS</b> <ul style="list-style-type: none"><li>➤ Metronidazole for treatment of rosacea is classified in D10A.</li><li>➤ Dressings with anti-infectives are classified here.</li></ul>
D06A	ANTIBIOTICS FOR TOPICAL USE <ul style="list-style-type: none"><li>➤ Ozenoxacin is classified here.</li></ul>	D6A	TOPICAL ANTIBACTERIALS <ul style="list-style-type: none"><li>➤ Ozenoxacin for treatment of acne is classified in D10A</li></ul>
D06B	CHEMOTHERAPEUTICS FOR TOPICAL USE	D6A	TOPICAL ANTIBACTERIALS
(- D6B B)			
D06B B	Antivirals	D6D	TOPICAL ANTIVIRALS INFECTION PRODUCTS
D6C	ANTIBIOTICS AND CHEMOTHERAPEUTICS, COMBINATIONS	❖	Included in D6A
<b>D07</b>	<b>CORTICOSTEROIDS, DERMATOLOGICAL PREPARATIONS</b>	<b>D7</b>	<b>TOPICAL CORTICOSTEROIDS</b>
D07A	CORTICOSTEROIDS, PLAIN	D7A	PLAIN TOPICAL CORTICOSTEROIDS
D07B	CORTICOSTEROIDS, COMBINATIONS WITH ANTISEPTICS	D7B	TOPICAL CORTICOSTEROID COMBINATIONS
+			
D07C	CORTICOSTEROIDS, COMBINATIONS WITH ANTIBIOTICS	❖	
+			
D07X	CORTICOSTEROIDS, OTHER COMBINATIONS	❖	

## WHO (Substance based)

## EphMRA (Product based)

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**D08 ANTISEPTICS AND DISINFECTANTS**

**D8 ANTISEPTICS AND DISINFECTANTS**

D08A ANTISEPTICS AND DISINFECTANTS

D8A ANTISEPTICS AND DISINFECTANTS

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**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  
D6A

TOPICAL ANTIBIOTICS AND/OR SULPHONAMIDES

D09A B Zinc bandages

Included  
in  
D5A

TOPICAL ANTIPSORIASIS AND SIMILAR PRODUCTS

D09A X Soft paraffin dressings

Included  
in  
D2A

EMOLLIENTS, PROTECTIVES

## **WHO (Substance based)**

## **EphMRA (Product based)**

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### **D10 ANTI-ACNE PREPARATIONS**

#### **D10A ANTI-ACNE PREPARATIONS FOR TOPICAL USE**

- Metronidazole for the treatment of rosacea is classified in D06B.
- Brimonidine is classified in D11A and in S1E for ocular indications.
- Nadifloxacin is classified here.
- Non-ophthalmic sulfacetamide is classified here.
- Ozenoxacin is classified in D06A.

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#### **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 G03H.

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### **D10 ANTI-ACNE PREPARATIONS**

#### **D10A TOPICAL ANTI-ACNE PREPARATIONS**

- Metronidazole for the treatment of rosacea is classified here.
- Brimonidine is classified here and in S1E for ocular indications.
- Nadifloxacin is classified here and in D6A when indicated for skin bacteriosis.
- Non-ophthalmic sulfacetamide is classified here and in D6A when indicated for skin bacteriosis.
- Ozenoxacin when used to treat acne is classified here; otherwise it is classified in D6A.

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#### **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.
  - Products indicated for both oral contraception and acne are classified in G3A
-

## **WHO (Substance based)**

## **EphMRA (Product based)**

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**D11 OTHER DERMATOLOGICAL PREPARATIONS****D11A OTHER DERMATOLOGICAL PREPARATIONS**

- Androgens for topical use are classified here.
- Tacrolimus and pimecrolimus are classified here.
- Alitretinoin is classified here.
- Brimonidine is classified here and in S1E for ocular indications.
- Ivermectin is classified here and in P02C.
- Dupilumab is 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.
  - Alitretinoin is classified in D5X when indicated for the treatment of eczema, and in L1X1 when indicated to treat cutaneous lesions in Kaposi's sarcoma.
  - Brimonidine is classified in D10A and in S1E for ocular indications.
  - Ivermectin is classified in P1B and in P3A, depending on indication.
  - Dupilumab is classified in D5X, when indicated only for atopic dermatitis and in L4C when also indicated for asthma.
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## **WHO (Substance based)**

## **EphMRA (Product based)**

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<b>G</b>	<b>GENITO URINARY SYSTEM AND SEX HORMONES</b>
<b>G01</b>	<b>GYNECOLOGICAL ANTIINFECTIVES AND ANTISEPTICS</b>
G01A	ANTIINFECTIVES AND ANTISEPTICS, EXCL. COMBINATIONS WITH CORTICOSTEROIDS
+	➤ All oral and rectal dosage forms of imidazole derivatives are classified in P01A.
G01B	ANTIINFECTIVES AND ANTISEPTICS, IN COMBINATION WITH CORTICOSTEROIDS

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<b>G</b>	<b>GENITO-URINARY SYSTEM AND SEX HORMONES</b>
<b>G1</b>	<b>GYNAECOLOGICAL ANTI-INFECTIVES</b>
G1A	TRICHOMONACIDES
+	➤ Dosage forms used for treatment of gynaecological infections are classified here.
	➤ Rectal suppositories for topical trichomonocides are classified in J8B.
G1B	GYNAECOLOGICAL ANTIFUNGALS
+	
G1C	GYNAECOLOGICAL ANTIBACTERIALS
+	
G1D	GYNAECOLOGICAL ANTISEPTICS

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<b>G02</b>	<b>OTHER GYNAECOLOGICALS</b>
	➤ Analgesics used in dysmenorrhea are classified in N02B.

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<b>G2</b>	<b>OTHER GYNAECOLOGICALS</b>
	➤ Analgesics indicated exclusively for dysmenorrhea are classified in G2X1.

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G02A	UTEROTONICS
	➤ Oxytocin and demoxytocin are classified in H01B.

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G2A	UTEROTONIC PRODUCTS
	➤ Oxytocin and demoxytocin are classified here.

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G02B	CONTRACEPTIVES FOR <u>TOPICAL</u> USE
	➤ IUDs containing progestogens are classified here.

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G2B	TOPICAL CONTRACEPTIVES
	➤ IUDs with progestogens are classified in G3A.

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G02C	OTHER GYNECOLOGICALS
	➤ Vaginal forms of estrogens are classified in G03C.

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❖	
	➤ Vaginal forms of estrogens are classified in G2F.

G02C A Sympathomimetics, labor repressants

G2E LABOUR INHIBITORS

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❖	
	➤ Vaginal forms of estrogens are classified in G03C.

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G2F	TOPICAL SEX HORMONES
	➤ Vaginal forms of estrogens are classified here.



## **WHO (Substance based)**

## **EphMRA (Product based)**

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G02C B	Prolactin inhibitors
	<ul style="list-style-type: none"><li>➤ Lisuride tablets in high strength (0.2mg) are classified in this group, while low dose tablets (25 mcg) are classified in N02C.</li><li>➤ Bromocriptine low dose is classified here; high strength tablets are classified in N04B.</li><li>➤ Cabergoline low dose is classified here, high strength tablets are classified in N04B.</li></ul>
G02C C	Antiinflammatory products for vaginal administration
+	
G02C X	Other gynaecologicals

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G2D	PROLACTIN INHIBITORS
	<ul style="list-style-type: none"><li>➤ Lisuride is classified in N4A.</li><li>➤ Bromocriptine is classified here and N4A.</li><li>➤ Cabergoline is classified here and N4A.</li></ul>
G2X	OTHER GYNAECOLOGICAL PRODUCTS

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### **G03 SEX HORMONES AND MODULATORS OF THE GENITAL SYSTEM**

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

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G03A	HORMONAL CONTRACEPTIVES FOR SYSTEMIC USE
	<ul style="list-style-type: none"><li>➤ IUDs with progestogens are classified in G02B.</li><li>➤ Ulipristal when indicated for emergency contraception is classified here. It is also classified in G03X.</li><li>➤ Mifepristone is classified in G03XB.</li></ul>

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G3A	HORMONAL CONTRACEPTIVES, SYSTEMIC
	<ul style="list-style-type: none"><li>➤ IUDs with progestogens are classified here.</li><li>➤ Ulipristal when indicated for emergency contraception is classified here. It is also classified in G3X.</li><li>➤ Mifepristone (10-25 mg) when indicated for emergency contraception is classified here. It is also classified in G3X.</li><li>➤ Products indicated for both oral contraception and acne are classified here.</li></ul>

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G03B ANDROGENS

G3B ANDROGENS, EXCLUDING G3E, G3F

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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G03C	ESTROGENS ➤ Tibolone is classified here. ➤ Vaginal forms are classified here.	G3C	OESTROGENS, EXCLUDING G3A, G3E, G3F ➤ Tibolone is classified G3X. ➤ Parenteral conjugated oestrogens for uterine bleeding are classified in B2G.  Vaginal forms and transdermal patches for local effect are classified in G2F.
G03D	PROGESTOGENS ➤ Flumedroxone is classified in N02C.	G3D	PROGESTOGENS, EXCLUDING G3A, G3F ➤ Flumedroxone is classified here.
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 are classified here.	❖	➤ Plain cyproterone preparations are classified in G3X and L2B depending on indication.
❖	➤ Bazedoxifene, lasofoxifene, ospemifene and raloxifene are classified in G03X.	G3J	SERMS (SELECTIVE OESTROGEN RECEPTOR MODULATORS) ➤ Bazedoxifene, lasofoxifene, ospemifene and raloxifene are classified here.

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## **WHO (Substance based)**

## **EphMRA (Product based)**

- G03X** OTHER SEX HORMONES AND MODULATORS OF THE GENITAL SYSTEM
- Tibolone is classified in G03D C.
  - Bazedoxifene, lasofoxifen, raloxifene, and ospemifene are classified here.
  - All plain cyproterone preparations (and combinations of cyproterone and estrogen) regardless of indication are classified in G03H.
  - Ulipristal for emergency contraception is classified in G03A D.
  - Mifepristone is classified here.
  - Vaginal forms of prasterone are classified here.

- G3X** 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).
  - Bazedoxifene, lasofoxifen, raloxifene, and ospemifene are classified in G3J.
  - Plain cyproterone preparations are classified here and in L2B depending on indication.
  - Ulipristal is also classified in G3A6 when indicated for emergency contraception.
  - Mifepristone is also classified in G3A6 when indicated for emergency contraception.
  - Vaginal forms of prasterone are classified in G2F.

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### **G04 UROLOGICALS**

- ❖
- Urinary quinolones are in J01M.
  - Other urinary antibacterials are in J01X.
  - Plazomicin is classified in J01G.

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

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**G04C** DRUGS USED IN BENIGN PROSTATIC HYPERTROPHY

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### **G4 UROLOGICALS**

- G4A** URINARY ANTI-INFECTIVES AND ANTISEPTICS
- Urinary quinolones are here in G4A2.
  - Other antiseptics and anti-bacterials are here in G4A9.
  - Plazomicin is here in G4A1.

- ❖
- Other urologicals are in G4X with exceptions below.
  - Erectile dysfunction products are in G4E.
  - Urinary incontinence products are in G4D.

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**G4C** BPH (BENIGN PROSTATIC HYPERTROPHY) PRODUCTS

## **WHO (Substance based)**

## **EphMRA (Product based)**

- 
- Indoramin is classified in C02CA.
  - Drugs for benign prostatic hypertrophy plus a PDE5 inhibitor are classified here.
- 

- Indoramin when indicated for BPH or hypertension is classified in C2A2.
  - Indoramin when indicated for migraine is classified in N2C9.
- 



G4D

URINARY INCONTINENCE PRODUCTS

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G4E

ERECTILE DYSFUNCTION PRODUCTS

- Phentolamine used as an antidote is in V03A. It is only in G04B for erectile dysfunction when in combinations.
  - PDE5 inhibitors are classified in G04BE.
  - Drugs for benign prostatic hypertrophy plus a PDE5 inhibitor are classified in G04C A.
- 

- Phentolamine for erectile dysfunction is here. It is in V3X when used as an antidote.
  - PDE5 inhibitors when indicated only for PAH are classified in C6B2.
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G4X

ALL OTHER UROLOGICAL PRODUCTS

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- Other urologicals are in G04B.

## WHO (Substance based)

## EphMRA (Product based)

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### H SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND INSULINS

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

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### H SYSTEMIC HORMONAL PREPARATIONS (EXCL. SEX HORMONES)

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#### H01 PITUITARY AND HYPOTHALAMIC HORMONES AND ANALOGUES



H01A ANTERIOR PITUITARY LOBE HORMONES and ANALOGUES

H01A A ACTH

H01A B Thyrotropin

H01A C Somatropin and somatropin agonists



H01A X Other anterior pituitary lobe hormones and analogues

➤ Pegvisomant is classified here.

H01B POSTERIOR PITUITARY LOBE HORMONES

H01B A Vasopressin and analogues

➤ Terlipressin is classified here.

H01B B Oxytocin and analogues

H01C HYPOTHALAMIC HORMONES

H01C A Gonadotrophin-releasing hormones

➤ Gonadorelin and nafarelin are classified here.

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#### H1 PITUITARY AND HYPOTHALAMIC HORMONES

H1A ACTH

Included in H3A THYROID PREPARATIONS

H3A

H4C GROWTH HORMONES



➤ Pegvisomant is classified in H1C2.



H4D ANTIDIURETIC HORMONES

➤ Terlipressin is classified in B2G.

G2A LABOUR INDUCERS

H1C HYPOTHALAMIC HORMONES

H1C1 GONADOTROPHIN RELEASING HORMONES

## **WHO (Substance based)**

## **EphMRA (Product based)**

- Buserelin, goserelin, histrelin, leuprorelin, and triptorelin are classified in L02A E.

- Gonadotrophin-releasing hormone analogues buserelin, goserelin, nafarelin, leuprorelin, and triptorelin when used for cancer are classified in L2A3.

H01C B Somatostatin and analogues

H1C2 ANTIGROWTH HORMONES

- Pegvisomant is classified here.

H01C C ANTI-GONADOTROPHIN-RELEASING HORMONES

H1C3 ANTIGONADOTROPHIN-RELEASING HORMONES

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### **H02 CORTICOSTEROIDS FOR SYSTEMIC USE**

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### **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 H4X.

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### **H03 THYROID THERAPY**

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### **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

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### **H04 PANCREATIC HORMONES**

❖



H04A GLYCOGENOLYTIC HORMONES

H4B GLUCAGON

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### **H05 CALCIUM HOMEOSTASIS**

❖

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

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H05A	PARATHYROID HORMONES AND ANALOGUES	H4E	PARATHYROID HORMONES AND ANALOGUES
H05B	ANTI-PARATHYROID HORMONES	❖	
H05B A	Calcitonin preparations	H4A	CALCITONINS
H05B X	Other anti-parathyroid agents	H4F	ANTIPARATHYROID PRODUCTS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>J</b>	<b>ANTIINFECTIVES FOR SYSTEMIC USE</b>	<b>J</b>	<b>GENERAL ANTI-INFECTIVES SYSTEMIC</b>
<b>J01</b>	<b>ANTIBACTERIALS FOR SYSTEMIC USE</b>	<b>J1</b>	<b>SYSTEMIC ANTIBACTERIALS</b>
J01A	TETRACYCLINES ➤ Tigecycline is classified here.	J1A	TETRACYCLINES AND COMBINATIONS ➤ Tigecycline is classified in J1X.
J01B	AMPHENICOLS	J1B	CHLORAMPHENICOL AND COMBINATIONS
J01C	BETA-LACTAM ANTIBACTERIALS, PENICILLINS	J1C	BROAD SPECTRUM PENICILLINS +
		J1H	MEDIUM AND NARROW SPECTRUM PENICILLINS +
		J1L	CARBENICILLIN AND SIMILAR TYPES
J01D	OTHER BETA LACTAM ANTIBACTERIALS	❖	
J01D B-E	➤ First-fourth generation cephalosporins. ➤ Loracarbef is classified here in J01D C. ➤ Other cephalosporins (including ceftobiprole medocaril and ceftaroline fosamil) are classified in J01D I.	J1D	CEPHALOSPORINS
J01D F	Monobactams	J1D1-2	➤ Oral – injectable cephalosporins. ➤ Loracarbef is classified in J1P3. ➤ Other cephalosporins (including ceftobiprole medocaril and ceftaroline fosamil) are classified here.
J01D H	Carbapenems	J1P1	Monobactams
+		J1P2	Penems and carbapenems ➤ Other cephalosporins (including ceftobiprole medocaril and ceftaroline fosamil) are classified in J1D.
J01D I	Other cephalosporins and penems		
J01E	SULFONAMIDES AND TRIMETHOPRIM	J1E	TRIMETHOPRIM AND SIMILAR FORMULATIONS



## **WHO (Substance based)**

## **EphMRA (Product based)**

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		+	
		J3A	SYSTEMIC SULFONAMIDES
J01F	MACROLIDES, LINCOSAMIDES and STREPTOGRAMINS ➤ Pristinamycin is classified here.	J1F	MACROLIDES AND SIMILAR TYPES ➤ Pristinamycin is classified in J1X.
J01G	AMINOGLYCOSIDE ANTIBACTERIALS ➤ Plain streptomycin is classified here. ➤ Plazomicin is classified here.	J1K	AMINOGLYCOSIDES ➤ Streptomycin is classified in J1X. ➤ Plazomicin is classified in G4A1
J01M	QUINOLONE ANTIBACTERIALS	J1G	FLUOROQUINOLONES ➤ Non-halogenated quinolones are in G4A2.
J01R	COMBINATIONS OF ANTIBACTERIALS  Sulfonamides, combinations with other antibacterials (excl. trimethoprim) are classified here.	❖	Combinations of antibacterials are classified based on classification hierarchy. See guidelines for details. Sulfonamides in combinations with other antibacterials (excl. trimethoprim) are classified in J3A.
❖	➤ Monobactams, carbapenems, carbacephems are classified in J01D.	J1P	OTHER BETA-LACTAM ANTIBACTERIALS, EXCLUDING PENICILLINS, CEPHALOSPORINS ➤ Monobactams, carbapenems, carbacephems are classified here.
J01X	OTHER ANTIBACTERIALS ➤ Pristinamycin is classified J01F; Tigecyclin is in J01A. ➤ Parenteral imidazole formulations are classified here in J01X D.	J1X	OTHER ANTIBACTERIALS ➤ Pristinamycin and tigecyclin are classified here. ➤ Parenteral imidazole formulations are classified in J8B.
<b>J02</b>	<b>ANTIMYCOTICS FOR SYSTEMIC USE</b>	<b>J2</b>	<b>SYSTEMIC AGENTS FOR FUNGAL INFECTIONS</b>
J02A	ANTIMYCOTICS FOR SYSTEMIC USE	J2A	SYSTEMIC AGENTS FOR FUNGAL INFECTIONS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

- 
- Terbinafine and griseofulvin are classified in D01B.

- Terbinafine for systemic use is classified here.
  - Griseofulvin is classified in D1A2.
- 

❖		<b>J3</b>	<b>SYSTEMIC SULPHONAMIDES</b>
	➤ All plain sulphonamides are classified in J01E. Sulfonamides, combinations with other antibacterials (excl. trimethoprim) are classified in J01R.		➤ This group includes plain sulphonamides and sulphonamide/antibiotic combinations, excluding trimethoprim/sulphonamides which are classified J1E.

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❖		<b>J3</b>	<b>SYSTEMIC SULPHONAMIDES</b>
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<b>J04</b>	<b>ANTIMYCOBACTERIALS</b>	<b>J4</b>	<b>ANTIMYCOBACTERIALS</b>
J04A	DRUGS FOR TREATMENT OF TUBERCULOSIS	J4A	ANTITUBERCULAR PRODUCTS
	➤ Rifampicin and rifamycin are classified here.		➤ Rifampicin and rifamycin are classified here and in J1M.
	➤ Plain streptomycin is classified in J01G A.		➤ Streptomycin is classified here.

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J04B	DRUGS FOR TREATMENT OF LEPRO	J4B	DRUGS FOR THE TREATMENT OF LEPRO
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<b>J05</b>	<b>ANTIVIRALS FOR SYSTEMIC USE</b>	<b>J5</b>	<b>ANTIVIRALS FOR SYSTEMIC USE</b>
J05A	DIRECT ACTING ANTIVIRALS	J5B	ANTIVIRALS, OTHER
			➤ The combination of ribavirin and peginterferon is classified in J5D1.
		+	
		J5C	HIV ANTIVIRALS
	➤ Antivirals acting against HIV are classified here in J05A E–J05A G, and J05A X depending on inhibition mechanism. HIV combination products are classified in J05AR.		➤ HIV antivirals are classified here in J5C1 – J5C5 depending on inhibition mechanism. Combinations of different classes of HIV antivirals are classified in J5C9.

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## WHO (Substance based)

## EphMRA (Product based)

	➤ Cobicistat is classified in V03AX.	+	➤ Cobicistat is classified here in J5C9.
❖	<ul style="list-style-type: none"> <li>➤ Antivirals against HCV are classified here in J05AP</li> <li>➤ Antivirals against HBV are mainly classified in J05AF. No separate group for HBV agents,</li> <li>➤ The combination of ribavirin and peginterferon is classified in L03A</li> </ul>	J5D	HEPATITIS ANTIVIRALS <ul style="list-style-type: none"> <li>➤ The combination of ribavirin and peginterferon is classified in J5D1.</li> </ul>
<b>J06</b>	<b>IMMUNE SERA AND IMMUNOGLOBULINS</b>	<b>J6</b>	<b>SERA AND GAMMA-GLOBULIN</b>
J06A	IMMUNE SERA	J6A	ANTITOXIC SERA
J06B	IMMUNOGLOBULINS	J6C	POLYVALENT IMMUNO-GLOBULINS - INTRAVENOUS
		+	
		J6D	HOMOLOGOUS IMMUNOLOGICALLY ACTIVE GLOBULINS - INTRAVENOUS
		+	
		J6E	POLYVALENT IMMUNO-GLOBULINS - INTRAMUSCULAR
		+	
		J6F	POLYVALENT IMMUNO-GLOBULINS – COMBINATION MODULATION - MAINLY INTRAMUSCULAR
		+	
		J6G	SPECIFIC IMMUNOGLOBULINS - ANTIBACTERIAL
		+	
		J6H	SPECIFIC IMMUNOGLOBULINS - ANTIVIRAL
		+	
		J6J	OTHER SPECIFIC IMMUNOGLOBULINS

## WHO (Substance based)

## EphMRA (Product based)

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<b>J07</b>	<b>VACCINES</b>	<b>J7</b>	<b>VACCINES</b>
J07A	BACTERIAL VACCINES <ul style="list-style-type: none"><li>➤ Also includes combinations of bacterial vaccines.</li><li>➤ BCG vaccine is classified in L03A X.</li></ul>	J7D	BACTERIAL VACCINES <ul style="list-style-type: none"><li>➤ Includes vaccines against one bacterial group. All combinations acting against more than one group of virus or bacteria are classified in J7B.</li><li>➤ BCG vaccine as a tuberculosis vaccine is classified here. BCG vaccine for cancer is classified in L1X9 and for general immunostimulation in L3A9.</li></ul>
J07B	VIRAL VACCINES <ul style="list-style-type: none"><li>➤ Also includes combinations of viral vaccines.</li></ul>	<b>J7E</b>	<b>VIRAL VACCINES</b> <ul style="list-style-type: none"><li>➤ Includes vaccines against one viral group. All combinations acting against more than one group of virus or bacteria are classified in J7B.</li></ul>
❖		<b>J7F</b>	<b>PROTOZOAL VACCINES</b> <ul style="list-style-type: none"><li>➤ Includes vaccines against one protozoal group. Vaccines against a combination of organisms are classified in J7B.</li></ul>
J07C	BACTERIAL AND VIRAL VACCINES, COMBINED <ul style="list-style-type: none"><li>➤ Bacterial vaccines combinations and viral vaccines combination are classified J07A and J07B respectively.</li></ul>	J7B	COMBINATIONS OF VACCINES <ul style="list-style-type: none"><li>➤ All combinations of bacterial, viral, and protozoal vaccines are classified here.</li></ul>
J07X	OTHER VACCINES	J7X	ALL OTHER VACCINE —LIKE PRODUCTS
❖		J8	OTHER ANTI-INFECTIVES <ul style="list-style-type: none"><li>➤ Parenteral imidazole formulations are classified here in J8B.</li></ul>

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## **WHO (Substance based)**

## **EphMRA (Product based)**

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**L** ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS

**L01** ANTINEOPLASTIC AGENTS

L01A ALKYLATING AGENTS

- Altretamine is classified in L01X.

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L01B ANTIMETABOLITES

- Methotrexate is classified in L01B and L04A.
- Cladribine when indicated for multiple sclerosis is classified in L04A.

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L01C PLANT ALKALOIDS AND OTHER NATURAL PRODUCTS

- Irinotecan, topotecan, and belotecan are classified in L01X X.
- Products for cancer containing omacetaxine mepisuccinate are classified in L01X X.

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L01D CYTOTOXIC ANTIBIOTICS AND RELATED SUBSTANCES

L01X OTHER ANTINEOPLASTIC AGENTS

- Altretamine is classified here.
- Alitretinoin is classified in D11A.
- Irinotecan, topotecan, and belotecan are classified here in L01X X.
- Ibritumomab tiuxetan, tositumomab and iodine (131I) tositumomab are classified in V10X.

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**L** ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS

**L1** CYTOSTATICS

L1A ALKYLATING AGENTS

- Altretamine is classified here.

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L1B ANTIMETABOLITES

- Methotrexate is classified in D5B, M1C and L01B.
- Cladribine when indicated for multiple sclerosis is classified in N7A.

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L1C PLANT-BASED ANTINEOPLASTICS

- Irinotecan, topotecan, and belotecan are classified here.
- Products for cancer containing omacetaxine mepisuccinate are classified here.

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L1D ANTINEOPLASTIC ANTIBIOTICS

L1X ALL OTHER ANTINEOPLASTICS

- Altretamine is classified in L1A.
- Irinotecan, topotecan, and belotecan are classified in L1C.
- Ibritumomab tiuxetan, tositumomab and iodine (131I) tositumomab are classified here.

## **WHO (Substance based)**

## **EphMRA (Product based)**

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L01X A	Platinum compounds	L1F	PLATINUM ANTINEOPLASTICS
L01X B	Methylhydrazines	L1X9	All other antineoplastics
L01X C	Monoclonal Antibodies	L1G	MONOCLONAL ANTIBODY ANTINEOPLASTICS
	➤ Alemtuzumab is classified in L04A A.		➤ Alemtuzumab when indicated for multiple sclerosis is classified in N7A.
L01X D	Sensitizers used in photodynamic/radiation therapy	L1X8	Photosensitisers for cancer therapy
	➤ Methoxsalen is classified in D05A or D05B depending on formulation.		➤ Methoxsalen when used for cancer therapy is classified here; otherwise it is classified in D5A or D5B, depending on formulation.
L01X E	Protein kinase inhibitors	L1H	PROTEIN KINASE INHIBITOR ANTINEOPLASTICS
	➤ Ruxolitinib is classified here.		➤ Ribociclib + letrozole is classified here.
	➤ Alpelisib is classified in L01X X		➤ Ruxolitinib is classified here.
			➤ Alpelisib is classified here.
❖	Proteasome inhibitors are classified in L01X X	L1J	PROTEASOME INHIBITOR ANTINEOPLASTICS
L01X X	Other antineoplastic agents	L1X1	Alternative preparations for cancer therapy
	➤ Sipuleucel-T is classified in L03X A.	+	➤ Alitretinoin is classified here when indicated to treat cutaneous lesions in Kaposi's sarcoma and in D5X when indicated for the treatment of eczema.
	➤ Aflibercept for metastatic colorectal cancer is classified here and for macular degeneration is classified in S01L.	L1X2	Lidomide antineoplastics
	➤ Products for cancer containing omacetaxine mepisuccinate are classified here.	+	Thalidomide when used for erythema nodosum leprosum (ENL) only are is classified in L4X; when indicated for multiple myeloma (MM) or MM and ENL it is classified here.
	➤ Proteasome inhibitors are classified here.	L1X3	
	➤ Lenalidomide, pomalidomide, and thalidomide are classified in L04A		
	➤ Tasonermin is classified in L03A X.		

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## **WHO (Substance based)**

- BCG vaccine is classified in L03A X.
- Alpelisib is classified here.
- Miltefosine is classified in P01C.

## **EphMRA (Product based)**

+  
L1X9

HDAC inhibitor antineoplastics

All other antineoplastics

- Sipuleucel-T is classified here.
- Aflibercept is classified here and in S1P.
- Products for cancer containing omacetaxine mepisuccinate are classified in L1C.
- Tasonermin is classified here.
- Alpelisib is classified in L1H.
- BCG vaccine for cancer is classified here. BCG vaccine for general immunostimulation is classified in L3A9. BCG vaccine for tuberculosis vaccination is classified in J7D6.
- Miltefosine for oncology indications is classified here. When indicated for treatment of leishmaniasis and free-living amoeba it is classified in P1G.

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### **L02 ENDOCRINE THERAPY**

#### **L02A HORMONES AND RELATED AGENTS**

L02A A Estrogens

L02A B Progestogens

L02A E Gonadotrophin releasing hormone analogues

- Buserelin, goserelin, histrelin, leuprorelin, and triptorelin are classified here.
- Gonadorelin and nafarelin are classified in H01C A.

L02A X Other Hormones

#### **L02B HORMONE ANTAGONISTS AND RELATED AGENTS**

### **L2 CYTOSTATIC HORMONE THERAPY**

#### **L2A CYTOSTATIC HORMONES**

L2A1 Cytostatic oestrogens

L2A2 Cytostatic progestogens

L2A3 Cytostatic gonadotrophin releasing hormone analogues

- Gonadotrophin-releasing hormone analogues buserelin, goserelin, leuprorelin, and triptorelin are classified here and in H1C1.

L2A9 Other cytostatic hormones

#### **L2B CYTOSTATIC HORMONE ANTAGONISTS**

## **WHO (Substance based)**

## **EphMRA (Product based)**

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L02B A	Anti-estrogens ➤ Fulvestrant is classified here.	L2B1	Cytostatic anti-estrogens ➤ Fulvestrant is classified in L2B9.
L02B B	Anti-androgens ➤ All plain cyproterone preparations (and combinations of cyproterone and estrogen) regardless of indication are classified here. ➤ Abiraterone is classified in L02B X.	L2B2	Cytostatic anti-androgens ➤ Plain cyproterone preparations are classified here and in G3X depending on indication. ➤ Abiraterone is classified here.
L02B G	Aromatase inhibitors	L2B3	Cytostatic aromatase inhibitors ➤ Ribociclib + letrozole is classified in L1H5
L02B X	Other hormone antagonists and related agents ➤ Abiraterone is classified here. ➤ Fulvestrant is classified in L02B A.	L2B9	Other cytostatic hormone antagonists ➤ Abiraterone is classified in L2B2. ➤ Fulvestrant is classified here.

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### **L03 IMMUNOSTIMULANTS**

L03A IMMUNOSTIMULANTS  
➤ Levamisole is classified in P02C E.

L03A A Colony stimulating factors

L03A C + Interleukins +

L03A X Other cytokines and immunomodulators

### **L3 IMMUNOMODULATING AGENTS**

L3A IMMUNOSTIMULATING AGENTS, EXCL. INTERFERONS  
➤ Levamisole, when indicated as immunostimulant, is classified here.

L3A1 COLONY STIMULATING FACTORS

L3A9 All other immunostimulating agents excluding interferons

➤ Sipuleucel-T is classified in L1X9.



## **WHO (Substance based)**

- Sipuleucel-T is classified here.
- Tasonermin is classified here.
- BCG vaccine is classified here.

L03A B INTERFERONS

## **EphMRA (Product based)**

- Tasonermin is classified in L1X9.
- BCG vaccine for general immunostimulation is classified here.  
BCG vaccine for tuberculosis vaccination is classified in J7D6.  
BCG vaccine for cancer is classified in L1X9.

L3B INTERFERONS

- Interferons indicated for viral hepatitis only are classified in J5D
- Interferons indicated for multiple sclerosis only are classified in N7A.

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**L04 IMMUNOSUPPRESSANTS**

**L4 IMMUNOSUPPRESSIVE AGENTS**

L04A IMMUNOSUPPRESSANTS

+

L04A A Selective immunosuppressants

- Alefacept is classified here.
- Abatacept, alemtuzumab, tocilizumab are classified here.
- Vedolizumab is classified here.
- Fingolimod and siponimod are classified here.
- Baricitinib is classified here.
- Natalizumab and ocrelizumab are classified here.
- Apremilast is classified here.
  
- Cladribine when indicated for multiple sclerosis is classified here. When indicated for cancer it is classified in L01B.
- Tofacitinib and leflunomide are classified here.
- Upadacitinib is classified here.

❖

Included in  
L4X

- Alefacept is classified in D5B.
- Abatacept and tocilizumab are classified in M1C.
- Alemtuzumab is classified in L1G and N7A.
- Vedolizumab is classified in A7E.
- Fingolimod and siponimod when indicated for multiple sclerosis only are classified in N7A.
- Baricitinib is classified in M1C.
- Natalizumab and ocrelizumab are classified in N7A.
- Apremilast when indicated for psoriatic skin conditions only is classified in D5B. When indicated for other conditions it is classified in L4X.
- Cladribine when indicated for multiple sclerosis is classified in N7A. When indicated for cancer it is classified in L1B.
- Tofacitinib and leflunomide when indicated for rheumatoid arthritis only are classified in M1C.
- Upadacitinib is classified in M1C.

## WHO (Substance based)

## EphMRA (Product based)

L04A B TNF- $\alpha$  inhibitors

L04A C Interleukin inhibitors

- Anakinra, sarilumab, ixekizumab, secukinumab, risankizumab, ustekinumab, and daclizumab are classified here.
- Dupilumab is classified in D11A.
- Tildrakizumab is classified here.

L04A D Calcineurin inhibitors

L04A X Other immunosuppressants

- Methotrexate is classified in L01B and L04A X.
- Lenalidomide, pomalidomide, and thalidomide are classified here.
- Dimethyl fumarate is classified here.
- Ruxolitinib is classified in L01X E.
- Darvadstrocel is classified here.

L4B ANTI-TNF PRODUCTS

L4C INTERLEUKIN INHIBITORS

- Ixekizumab, ustekinumab, secukinumab, and risankizumab when indicated for psoriasis alone are classified in D5B.
- Anakinra and sarilumab are classified in M1C.
- Daclizumab when indicated for use in kidney transplantation is classified here. Daclizumab for multiple sclerosis and other conditions is classified in N7A.
- Dupilumab for atopic dermatitis is classified in D5X. Dupilumab when also indicated for asthma is classified here.
- Tildrakizumab is classified in D5B.

❖ Calcineurin inhibitors when indicated for prevention of organ rejection are classified in L4X.

L4X OTHER IMMUNOSUPPRESSANTS

- Methotrexate is classified in D5B, M1C and L01B.
- Lenalidomide, pomalidomide, and thalidomide for multiple myeloma (MM) are classified in L1X2. Thalidomide, when used for erythema nodosum leprosum (ENL) only is classified here; when indicated for MM and ENL it is classified in L1X2.
- Dimethyl fumarate when indicated for multiple sclerosis is classified in N7A; when indicated for psoriasis it is classified in D5B.
- Ruxolitinib is classified in L1H9.
- Darvadstrocel is classified in A7E9.

## **WHO (Substance based)**

## **EphMRA (Product based)**

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<b>M</b>	<b>MUSCULO-SKELETAL SYSTEM</b>	<b>M</b>	<b>MUSCULO-SKELETAL SYSTEM</b>
<b>M01</b>	<b>ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS</b>	<b>M1</b>	<b>ANTIINFLAMMATORY AND ANTI-RHEUMATIC PRODUCTS</b>
<b>M01A</b>	ANTIINFLAMMATORY and ANTIRHEUMATIC PRODUCTS, NON STEROIDS <ul style="list-style-type: none"><li>➤ This group comprises antiinflammatory preparations for systemic use, regardless of strength.</li><li>➤ Mefenamic acid is classified here.</li><li>➤ Ketorolac is classified here.</li><li>➤ Chondroitin, Diacerein and Glucosamine are classified here.</li></ul>	<b>M1A</b>	ANTI-RHEUMATIC, NON STEROIDAL <ul style="list-style-type: none"><li>➤ Anti-inflammatory analgesics used for both musculo-skeletal conditions and analgesia are classified in M1A. Those that are indicated mainly for general pains are in N2B.</li><li>➤ Mefenamic acid is classified in N2B.</li><li>➤ Ketorolac is classified in N2B.</li><li>➤ Chondroitin, Diacerein and Glucosamine are classified in M5X.</li></ul>
<b>M01B</b>	ANTIINFLAMMATORY/ANTIRHEUMATIC AGENTS IN COMBINATION		
<b>M01B A</b>	Antiinflammatory/antirheumatic agents in combination with corticosteroids	<b>M1B</b>	ANTI-RHEUMATIC CORTICOSTEROID COMBINATIONS
<b>M01C</b>	SPECIFIC ANTIRHEUMATIC AGENTS <ul style="list-style-type: none"><li>➤ Chloroquine is classified in P01B.</li><li>➤ Anakinra, sarilumab, abatacept, tofacitinib, leflunomide, baricitinib, and tocilizumab are classified in L04A.</li><li>➤ Methotrexate is classified in L01B and L04A.</li><li>➤ Upadacitinib is classified in L04A</li></ul>	<b>M1C</b>	SPECIFIC ANTI-RHEUMATIC AGENTS <ul style="list-style-type: none"><li>➤ Chloroquine is classified here and in P1D.</li><li>➤ Anakinra, sarilumab, abatacept, baricitinib, and tocilizumab are classified here.</li><li>➤ Tofacitinib and leflunomide when indicated for multiple conditions are classified in L4X.</li><li>➤ Methotrexate is classified in D5B, M1C and L01B.</li><li>➤ Upadacitinib is classified here.</li></ul>

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## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>M02</b>	<b>TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN</b>	<b>M2</b>	<b>TOPICAL ANTI-RHEUMATICS AND ANALGESICS</b>
M02A	TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN <ul style="list-style-type: none"><li>➤ Bendazac is classified here.</li><li>➤ Bufexamac is classified here.</li><li>➤ Chymotrypsin is classified in B06A A when used as haematological enzymes.</li><li>➤ Tolperisone is classified here.</li></ul>	M2A	TOPICAL ANTI-RHEUMATICS AND ANALGESICS <ul style="list-style-type: none"><li>➤ Bendazac is classified in D3A.</li><li>➤ Bufexamac is also classified in D4A.</li><li>➤ Nimesulide in throat preparations is also classified in R2A.</li><li>➤ Chymotrypsin is classified here or in A9A, C5B, D3A and V3H depending on indications.</li><li>➤ Tolperisone is classified in M3B.</li></ul>
<b>M03</b>	<b>MUSCLE RELAXANTS</b>	<b>M3</b>	<b>MUSCLE RELAXANTS</b>
M03A	MUSCLE RELAXANTS, PERIPHERALLY ACTING AGENTS <ul style="list-style-type: none"><li>➤ Dantrolene is classified in M03C.</li></ul>	M3A	MUSCLE RELAXANTS, PERIPHERALLY ACTING <ul style="list-style-type: none"><li>➤ Dantrolene is classified here.</li></ul>
M03B	MUSCLE RELAXANTS, CENTRALLY ACTING AGENTS	M3B	MUSCLE RELAXANTS, CENTRALLY ACTING <ul style="list-style-type: none"><li>Tolperisone is classified here.</li></ul>
M03C	MUSCLE RELAXANTS, DIRECTLY ACTING AGENTS <ul style="list-style-type: none"><li>➤ Dantrolene is classified here.</li></ul>	❖	➤ Dantrolene is classified in M3A.
<b>M04</b>	<b>ANTI-GOUT PREPARATIONS</b>	<b>M4</b>	<b>ANTI-GOUT PREPARATIONS</b>
M04A	ANTI-GOUT PREPARATIONS	M4A	ANTI-GOUT PREPARATIONS
<b>M5</b>	<b>DRUGS FOR TREATMENT OF BONE DISEASES</b>	<b>M5</b>	<b>OTHER DRUGS FOR DISORDERS OF THE MUSCULO-SKELETAL SYSTEM</b>
M05B	DRUGS AFFECTING BONE STRUCTURE AND MINERALIZATION	M5B	BONE CALCIUM REGULATORS

## **WHO (Substance based)**

## **EphMRA (Product based)**

- Eptotermin alfa is classified here.
- Dibotermin alfa is classified here.
- Burosumab is classified here.

- Eptotermin alfa is classified in M5X.
- Dibotermin alfa is classified in M5X.
- Burosumab is classified in M5X.

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### **M09 OTHER DRUGS FOR DISORDERS OF THE MUSCULO-SKELETAL SYSTEM**



#### **M09A OTHER DRUGS FOR DISORDERS OF THE MUSCULO-SKELETAL SYSTEM**

##### **M09A A Quinine and DERIVATES**

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##### **M09A X Other drugs for disorders of the Musculo-skeletal system**

- Eptotermin alfa is classified in M05B.
- Dibotermin alfa is classified in M05B.
- Mexiletine is classified in C01B.

Included in  
M5X

#### **ALL OTHER MUSCULOSKELETAL PRODUCTS**

- Eptotermin alfa is classified here.
- Dibotermin alfa is classified here.
- Burosumab is classified here.
- Mexiletine is classified here for non-dystrophic myotonic disorders; when indicated for cardiac arrhythmias it is classified in C1B.

##### **M09A B Enzymes**

- Bromelains is classified in B06A A.
- Chymotrypsin and trypsin are classified in B06A A when used as haematological enzymes.

V3H

#### **ANTI INFLAMMATORY ENZYMES**

- Bromelains is classified here or, in A9A and D3A depending on indications.
- Chymotrypsin is classified here or in A9A, C5B, D3A and M2A depending on indications.

## **WHO (Substance based)**

## **EphMRA (Product based)**

N	<b>NERVOUS SYSTEM</b>	N	<b>CENTRAL NERVOUS SYSTEM</b>
<b>N01</b>	<b>ANESTHETICS</b>	<b>N1</b>	<b>ANAESTHETICS</b>
N01A	ANESTHETICS, GENERAL <ul style="list-style-type: none"><li>➤ Droperidol is classified in N5A.</li></ul>	N1A	ANAESTHETICS, GENERAL <ul style="list-style-type: none"><li>➤ Phenoperidine and anileridine are classified in N2A.</li><li>➤ Droperidol is classified here or in N2A or N5A.</li></ul>
N01B	ANESTHETICS, LOCAL <ul style="list-style-type: none"><li>➤ Capsicum for neuropathic pain is classified here, otherwise it is in M02A.</li></ul>	N1B	ANAESTHETIC LOCAL <ul style="list-style-type: none"><li>➤ Topical capsicum is classified in M2A or, when used for neuropathic pain, in N7X.</li></ul>
<b>N02</b>	<b>ANALGESICS</b>	<b>N2</b>	<b>ANALGESICS</b>
↻	<ul style="list-style-type: none"><li>➤ All antiinflammatory products are classified in M01A, regardless of strength.</li><li>➤ Analgesic/cold preparations are classified here intended for use as pain relief.</li><li>➤ Analgesics indicated for dysmenorrhea are classified here.</li></ul>		<ul style="list-style-type: none"><li>➤ 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.</li><li>➤ Analgesic/cold preparations are classified in R5A.</li><li>➤ Products specifically indicated for dysmenorrhea are classified in G2X1.</li></ul>
N02A	OPIOIDS <ul style="list-style-type: none"><li>↻</li><li>➤ This classification is based solely on substances, not on legal status.</li><li>➤ Dihydrocodeine is classified here.</li><li>➤ Droperidol is classified in N5A.</li></ul>	N2A	NARCOTICS <ul style="list-style-type: none"><li>➤ Includes all analgesics classified as narcotics in accordance with the <u>legal definition of narcotic analgesics in each country.</u></li><li>➤ Dihydrocodeine is classified in N2B.</li><li>➤ Droperidol is classified here, or in N1A or N5A.</li></ul>
N02B	OTHER ANALGESICS AND ANTIPYRETICS <ul style="list-style-type: none"><li>↻</li></ul>	N2B	NON-NARCOTICS AND ANTI-PYRETICS WHY DELETED?

## **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).
  - Flumedroxone is classified here.
  - Indoramin is classified in C02.

- N2C**     **ANTI MIGRAINE PREPARATIONS**
- Dihydroergotamine is classified here and also in C1C1.
  - Pizotifen is classified here and in A15.
  - Lisuride is classified in N4A.
  - Flumedroxone is classified in G3D.
  - Indoramin is classified here and in C2.

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**N03**     **ANTIEPILEPTICS**

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**N3**     **ANTI-EPILEPTICS**

- N03A**     **ANTIEPILEPTICS**
- Cannabinoids (cannabidiol and tetrahydrocannabinol) are classified here.

- N3A**     **ANTI-EPILEPTICS**
- Cannabinoids (cannabidiol and tetrahydrocannabinol), used for refractory spasticity, are classified in N7X. ????

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**N04**     **ANTI-PARKINSON DRUGS**

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**N4**     **ANTI-PARKINSON DRUGS**

**N04A**     **ANTICHOLINERGIC AGENTS**

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**N04B**     **DOPAMINERGIC AGENTS**

- Lisuride is classified in N02C and in G02C.

- Lisuride is classified here.

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**N05**     **PSYCHOLEPTICS**

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**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

**N05A**     **ANTIPSYCHOTICS**

**N5A**     **ANTIPSYCHOTICS**

## **WHO (Substance based)**

## **EphMRA (Product based)**

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	<ul style="list-style-type: none"><li>➤ Lithium is classified here.</li><li>➤ Droperidol is classified here.</li></ul>		<ul style="list-style-type: none"><li>➤ Lithium is classified in N6A.</li><li>➤ Droperidol is classified here, or in N1A or N2A.</li></ul>
N05B	<b>ANXIOLYTICS</b> <ul style="list-style-type: none"><li>➤ Mebutamate is classified here.</li><li>➤ Mefenoxalone is classified here.</li></ul>	N5C	<b>TRANQUILLISERS</b> <ul style="list-style-type: none"><li>➤ Mebutamate is classified in C2A.</li><li>➤ Metenoxalone is classified in M3B.</li><li>➤ Mebicar is classified here.</li></ul>
N05C	<b>HYPNOTICS AND SEDATIVES</b> <ul style="list-style-type: none"><li>➤ Melatonin is classified here.</li></ul>	N5B	<b>HYPNOTICS / SEDATIVES</b> <ul style="list-style-type: none"><li>➤ Melatonin (plain) indicated for sleep rhythm disturbances is classified in H4X. Prolonged-release melatonin indicated for primary insomnia is classified here.</li></ul>
<b>N06</b>	<b>PSYCHOANALEPTICS</b>	<b>N6</b>	<b>PSYCHOANALEPTICS EXCL. ANTI-OBESITY PREPARATIONS</b>
N06A	<b>ANTIDEPRESSANTS</b> <ul style="list-style-type: none"><li>➤ Lithium is classified in N05A.</li><li>➤ Ademetionine is in A16A.</li><li>➤ Bupropion is classified here.</li></ul>	N6A	<b>ANTI-DEPRESSANTS AND MOOD STABILISERS</b> <ul style="list-style-type: none"><li>➤ Lithium is classified here.</li><li>➤ Ademetionine is classified here.</li><li>➤ Bupropion is classified here and in N7B.</li></ul>
N06B	<b>PSYCHOSTIMULANTS, AGENTS USED FOR ADHD AND NOOTROPICS</b> <ul style="list-style-type: none"><li>➤ Dexamfetamine and metamfetamine are classified here.</li><li>➤ Caffeine is classified here.</li><li>➤ Citicoline is classified here.</li><li>➤ Atomoxetine is classified here.</li><li>➤ Mebicar is classified here.</li></ul>	N6B	<b>PSYCHOSTIMULANTS</b> <ul style="list-style-type: none"><li>➤ Dexamfetamine and metamfetamine are classified here and in A8.</li><li>➤ Plain caffeine is classified in C1C1.</li><li>➤ Citicoline is classified in C4A.</li><li>➤ Mebicar is classified in N5C.</li><li>➤ Atomoxetine is classified in N7X.</li><li>➤ Solriamfetol is classified in N7X.</li></ul>

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## **WHO (Substance based)**

## **EphMRA (Product based)**

- Solriamfetol is classified here.

N6D NOOTROPICS

- Citicoline is classified in C4A.

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N6E NEUROTONICS AND OTHER MISCELLANEOUS PRODUCTS

N06C PSYCHOLEPTICS AND PSYCHOANALEPTICS IN COMBINATION

N6C PSYCHOLEPTIC-PSYCHOANALEPTIC COMBINATIONS

N06D ANTI-DEMENTIA DRUGS

N7D ANTI-ALZHEIMER PRODUCTS

- Ipidacrine is classified here.

- Ipidacrine is classified in N7X.

**N07 OTHER NERVOUS SYSTEM DRUG**



**N7 OTHER CNS DRUGS**

N07A PARASYMPATHOMIMETICS

- Nalorphine, naltrexone, naloxone and flumazenil are classified in V03A.
- Cevimeline is classified here.
- Alemtuzumab is classified in L04A A.
- Solriamfetol is classified in N06B.

❖ OTHER CNS DRUGS

Included in N7X

- Nalorphine, naltrexone, naloxone, flumazenil, and ipidacrine are classified in N7X.
- Cevimeline is classified in A01A.
- Alemtuzumab when indicated for multiple sclerosis is classified here.
- Solriamfetol is classified here.

**N07B DRUGS USED IN ADDICTIVE DISORDERS**

N07B A Drugs used in nicotine dependence

- Bupropion is classified in N6A.

N7B ANTISMOKING PRODUCTS

- Bupropion is classified here and in N6A (antidepressant).

## **WHO (Substance based)**

## **EphMRA (Product based)**

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N07B B Drugs used in alcohol dependence

- Nalmefene is classified here.

N07B C Drugs used in opioid dependence

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N07C ANTIVERTIGO PREPARATIONS



- Natalizumab and ocrelizumab are classified in L04AA.
- Alemtuzumab, fingolimod, siponimod, and terflunomide are classified in L04AA.
- Daclizumab is classified in L04A C.
- All forms of biotin are classified in A11H A.
- Cladribine when indicated for multiple sclerosis is classified in L04A.

N7E DRUGS USED IN ALCOHOL DEPENDENCE

- Nalmefene is also classified in N7X.

N7F DRUGS USED IN OPIOID DEPENDENCE

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N7C ANTIVERTIGO PREPARATIONS

N7A MULTIPLE SCLEROSIS PRODUCTS

- Natalizumab and ocrelizumab are classified here.
- Daclizumab is classified here, except when indicated for kidney transplantation when it is classified in L4C.
- Alemtuzumab, dimethyl fumarate, fingolimod, siponimod, glatiramer acetate, laquinimod, teriflunomide, etc when indicated for multiple sclerosis are classified here.
- Beta interferons indicated for multiple sclerosis only are classified here.
- High-dose single-ingredient biotin indicated for multiple sclerosis only is classified in N7A.
- Fampridine is classified in N7X.
- Dimethyl fumarate when indicated for multiple sclerosis is classified here.
- Cladribine when indicated for multiple sclerosis is classified here.

## WHO (Substance based)

## EphMRA (Product based)

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N07X

OTHER NERVOUS SYSTEM DRUGS



- Sugammadex is classified in V03A B here.
- Topical capsicum, when used for neuropathic pain, is classified in N01B.
- Cannabinoids (cannabidiol and tetrahydrocannabinol) are classified in N03A.
- Tafamidis is classified here.

N7X

ALL OTHER CNS DRUGS

- Sugammadex is classified here.
  - Topical capsicum, when used for neuropathic pain, is classified here.
  - Cannabinoids (cannabidiol and tetrahydrocannabinol) are classified here.
  - Ipidacrine is classified here.
  - Nalmefene is also classified in N7E.
  - Pilocarpine when indicated for dry mouth and dry eye are classified here.
  - Tafamidis for transthyretin amyloid cardiomyopathy only is classified in C1X; otherwise it is classified here.
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## **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 J01X D.
- Clioquinol, chlorquinaldol, tilbroquinol and glycobinarsol are classified here.

**P01B ANTI-MALARIALS**

- Chloroquine and hydroxychloroquine are classified here.

**P01C AGENTS AGAINST LEISHMANIASIS AND TRYPANOSOMIASIS**



- Miltefosine is classified here.

**P02 ANTHELMINTICS**



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

**P PARASITOLOGY**

**P1 ANTI-PARASITIC PRODUCTS**



**P1A AMOEBICIDES**

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

**P1D ANTI-MALARIALS**

- Chloroquine and hydroxychloroquine are classified here and in M1C.

**P1G OTHER ANTI-PARASITIC AGENTS**

- Miltefosine is classified here when indicated for treatment of leishmaniasis and free-living amoeba. It is classified in L1X9 for oncology indications.

**P1C SCHISTOSOMICIDES**



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**P1B ANTHELMINTICS, EXCL. SCHISTOSOMICIDES**

- Levamisole is classified here in L3A.

## **WHO (Substance based)**

- Levamisole is classified here.
- Ivermectin is classified in here and in D11A.
- Miltefosine is classified in P01C.

## **EphMRA (Product based)**

- Ivermectin is classified here and in P3A, depending on indication.

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<b>P03</b>	<b>ECTOPARASITICIDES, INCL. SCABICIDES, INSECTISIDES AND REPELLENTS</b>
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P03A	ECTOPARASITICIDES, INCL. SCABICIDES
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- Ivermectin is classified in P02C and D11A.

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P03B	INSECTICIDES AND REPELLENTS
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- Dimethylphthalate is classified here.

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<b>P3</b>	<b>ECTOPARASITICIDES, INCL. SCABICIDES, INSECTISIDES AND REPELLENTS</b>
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P3A	ECTOPARASITICIDES, incl. SCABICIDES
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- Ivermectin is classified here and in P1B, depending on indication.

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P3B	INSECTICIDES AND REPELLENTS
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- Dimethylphthalate is classified in D4A.
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## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>R</b>	<b>RESPIRATORY SYSTEM</b>	<b>R</b>	<b>RESPIRATORY SYSTEM</b>
<b>R01</b>	<b>NASAL PREPARATIONS</b>	<b>R1</b>	<b>NASAL PREPARATIONS</b>
R01A	DECONGESTANTS AND OTHER NASAL PREPARATIONS FOR TOPICAL USE	R01A	TOPICAL NASAL PREPARATIONS
R01B	NASAL DECONGESTANTS FOR SYSTEMIC USE	R1B	SYSTEMIC NASAL PREPARATIONS
<b>R02</b>	<b>THROAT PREPARATIONS</b>	<b>R2</b>	<b>THROAT PREPARATIONS</b>
R02A	THROAT PREPARATIONS <ul style="list-style-type: none"><li>➤ Preparations for the treatment of throat infections (lozenges for common cold condition) are classified here.</li></ul>	R2A	THROAT PREPARATIONS <ul style="list-style-type: none"><li>➤ Products indicated for both the posterior part of the mouth and throat infections are classified in R2A or A1A depending on the main indication.</li><li>➤ Nimesulide in throat preparations is also here.</li></ul>
<b>R03</b>	<b>DRUGS FOR OBSTRUCTIVE AIRWAY DISEASES</b> <p>This group is harmonized on the second level.</p> <ul style="list-style-type: none"><li>➤ Alfa 1 antitrypsin (alpha-1-proteinase inhibitor) is classified in B02A.</li><li>➤ Azelastine is classified in R06A.</li><li>➤ Ketotifen is classified in R06A.</li><li>➤ Terfenadine is classified in R06A.</li></ul>	<b>R3</b>	<b>ANTI-ASTHMA AND COPD PRODUCTS</b> <ul style="list-style-type: none"><li>➤ Alpha-1-proteinase inhibitor (alfa 1 antitrypsin) is classified here.</li><li>➤ Azelastine is classified here.</li><li>➤ Ketotifen is classified here.</li><li>➤ Terfenadine (Japan only) is classified here, in all other countries in R6A.</li></ul>
❖		<b>R4</b>	<b>CHEST RUBS AND OTHER INHALANTS</b>

## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>R05</b>	<b>COUGH AND COLD PREPARATIONS</b>	<b>R5</b>	<b>COUGH AND COLD PREPARATIONS</b>
➔	<ul style="list-style-type: none"><li>➤ Cold preparations with therapeutic levels of antiinfectives should be classified in ATC group J – Antiinfectives for systemic use.</li><li>➤ Cold preparations with therapeutic levels of analgesics/antiinflammatory agents should be classified in the respective N02/M01 groups.</li></ul>		<ul style="list-style-type: none"><li>➤ COUGH/COLD PREPARATIONS WITH ANTI-INFECTIVES (R5B)</li><li>➤ COLD PREPARATIONS WITHOUT ANTI-INFECTIVES (R5A)</li></ul>
R05C	EXPECTORANTS, EXCL. COMBINATIONS WITH COUGH SUPPRESSANTS	R5C	EXPECTORANTS
R05D	COUGH SUPPRESSANTS, EXCL. COMBINATIONS WITH EXPECTORANTS	R5D	ANTITUSSIVES
	<ul style="list-style-type: none"><li>➤ Cough suppressants with expectorants are in R05F.</li></ul>		<ul style="list-style-type: none"><li>➤ Cough suppressants combination preparations are here in R5D2.</li></ul>
+			
R05F	COUGH SUPPRESSANTS AND EXPECTORANTS, COMBINATIONS	R5F	OTHER COUGH AND COLD PREPARATIONS
			<ul style="list-style-type: none"><li>➤ This group includes combinations without clearly expectorating or antitussive effect, expectorant teas and lozenges / medical sweets for cough.</li></ul>
R05X	OTHER COLD PREPARATIONS	❖	
<b>R06</b>	<b>ANTIHISTAMINES FOR SYSTEMIC USE</b>	<b>R6</b>	<b>SYSTEMIC ANTIHISTAMINES</b>
R06A	ANTIHISTAMINES FOR SYSTEMIC USE	R6A	SYSTEMIC ANTIHISTAMINES
	<ul style="list-style-type: none"><li>➤ Antihistamines for systemic use are classified here.</li><li>➤ Cyproheptadine is classified here.</li><li>➤ Thiethylperazine is classified here.</li><li>➤ Azelastine and ketotifen are classified here.</li></ul>		<ul style="list-style-type: none"><li>➤ Antihistamines used in motion sickness are classified in A4A.</li><li>➤ Cyproheptadine is also classified in A15.</li><li>➤ Thiethylperazine is classified in A4A.</li><li>➤ Azelastine and ketotifen are classified in R3C.</li></ul>

**WHO (Substance based)**

**EphMRA (Product based)**

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**R07 OTHER RESPIRATORY SYSTEM PRODUCTS**

**R7 OTHER RESPIRATORY SYSTEM PRODUCTS**

R07A OTHER RESPIRATORY SYSTEM PRODUCTS

R07A A LUNG SURFACTANTS

R7C LUNG SURFACTANTS

R07A B RESPIRATORY STIMULANTS

R7A RESPIRATORY STIMULANTS

R07A X OTHER RESPIRATORY SYSTEM PRODUCTS

R7X ALL OTHER RESPIRATORY SYSTEM PRODUCTS

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

<b>S</b>	<b>SENSORY ORGANS</b>	<b>S</b>	<b>SENSORY ORGANS</b>
<b>S01</b>	<b>OPHTHALMOLOGICALS</b>	<b>S1</b>	<b>OPHTHALMOLOGICALS</b>
S01A	ANTIINFECTIVES	S1A	OPHTHALMOLOGICAL ANTI-INFECTIVES
S01A D	Antivirals	+	
		S1D	OPHTHALMOLOGICAL ANTIVIRAL AGENTS
S01B	ANTIINFLAMMATORY AGENTS	S1B	OPHTHALMOLOGICAL CORTICOSTEROIDS
S01B C	Antiinflammatory agents, non-steroids	+	
		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 ➤ Aflibercept for macular degeneration is classified here, and for metastatic colorectal cancer in L1X X	S1P	OCULAR ANTINEOVASCULARISATION PRODUCTS ➤ Aflibercept is classified here and in L1X.

**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
<b>S02</b>	<b>OTOLOGICALS</b>	<b>S2</b>	<b>OTOLOGICALS</b>
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
<b>S03</b>	<b>OPHTHALMOLOGICAL AND OTOLOGICAL PREPARATIONS</b>	<b>S3</b>	<b>OPHTHALMOLOGICAL/OTOLOGICAL COMBINATIONS</b>
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)**

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S03D OTHER OPHTHALMOLOGICAL AND OTOLOGICAL  
PREPARATIONS

S3D OTHER EYE/EAR COMBINATIONS

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## **WHO (Substance based)**

## **EphMRA (Product based)**

<b>V</b>	<b>VARIOUS</b>	<b>V</b>	<b>VARIOUS</b>
<b>V01</b>	<b>ALLERGENS</b>	<b>V1</b>	<b>ALLERGENS</b>
V01A	ALLERGENS	V1A	ALLERGENS
<b>V03</b>	<b>ALL OTHER THERAPEUTIC PRODUCTS</b>	<b>V3</b>	<b>ALL OTHER THERAPEUTIC PRODUCTS</b>
V03A	ALL OTHER THERAPEUTIC PRODUCTS	V3A	❖
V03A B	ANTIDOTES <ul style="list-style-type: none"><li>➤ Zinc acetate is classified in A16A.</li><li>➤ Sugammadex is classified here.</li><li>➤ Plain phentolamine as an antidote is classified here.</li><li>➤ Idarucizumab and andexanet alfa are classified here.</li></ul>	V3E	ANTIDOTES <ul style="list-style-type: none"><li>➤ Zinc acetate is classified here when indicated for Wilson's disease.</li><li>➤ Sugammadex is classified in N7X.</li><li>➤ Phentolamine for erectile dysfunction is in G4E.</li><li>➤ Phentolamine when used as an antidote is classified in V3X.</li><li>➤ Idarucizumab and andexanet alfa are classified in B2B9.</li></ul>
V03A C	IRON CHELATING AGENTS	V3F	IRON-CHELATING AGENTS
V03A E	DRUGS FOR THE TREATMENT OF HYPERKALEMIA AND HYPERPHOSPHATEMIA <ul style="list-style-type: none"><li>➤ Colestilan is classified here.</li><li>➤ Calcium acetate is classified here.</li><li>➤ Other plain calcium products are classified in A12A.</li></ul>	V3G	HYPERKALAEMIA/HYPERPHOSPHATEMIA PRODUCTS <ul style="list-style-type: none"><li>➤ Colestilan is also classified in C10A.</li><li>➤ Calcium-containing products indicated for hyperphosphatemia and calcium deficiency are classified here.</li></ul>
V03A F	DETOXIFYING AGENTS FOR ANTINEOPLASTIC TREATMENT	V3D	DETOXIFYING AGENTS FOR ANTINEOPLASTIC TREATMENT
V03A G – V03A Z	<ul style="list-style-type: none"><li>➤ Nalfurafine is classified in V03A X.</li><li>➤ Phentolamine when used as an antidote/reversal agent is</li></ul>	V3X	ALL OTHER THERAPEUTIC PRODUCTS <ul style="list-style-type: none"><li>➤ Nalfurafine is classified in D4A.</li><li>➤ Phentolamine when used as an antidote is classified here.</li></ul>

## **WHO (Substance based)**

classified in V03A B.

- Trypsin is classified in B06A A when used as haematological enzymes.
- Cobicistat is classified in V03AX.

## **EphMRA (Product based)**

- Trypsin is classified here or in A9A and V3H depending on indications.
- Cobicistat is classified in J5C9.

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**V04      DIAGNOSTIC AGENTS**



**T**

**DIAGNOSTIC AGENTS**

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

V04B	URINE TESTS	T2C	PREGNANCY AND OVULATION TESTS
		T2D1	Diabetes tests, urine
		T2X1	All other diagnostic tests, urine
V04C	OTHER DIAGNOSTIC AGENTS	T2X2 +	All other diagnostic tests, blood
		T2X9	All other diagnostic tests
V04C A	Tests for diabetes	T2D2 +	Diabetes tests, blood
		T2D9	Diabetes tests, other
❖		T3	DIAGNOSTIC EQUIPMENT AND ACCESSORIES
<b>V06</b>	<b>GENERAL NUTRIENTS</b>	<b>V6</b>	<b>DIETETIC AGENTS</b>
V06A	DIET FORMULATIONS FOR TREATMENT OF OBESITY	V6A	SLIMMING PREPARATIONS
V06B	PROTEIN SUPPLEMENTS	V6B	PROTEIN SUPPLEMENTS
V06C	INFANT FORMULAS	V6C	INFANT FORMULAS
V06D	OTHER NUTRIENTS	V6D	OTHER NUTRIENTS
<b>V07</b>	<b>ALL OTHER NON-THERAPEUTIC PRODUCTS</b>	<b>V7</b>	<b>ALL OTHER NON-THERAPEUTIC PRODUCTS</b>
V07A	ALL OTHER NON-THERAPEUTIC PRODUCTS	V7A	ALL OTHER NON-THERAPEUTIC PRODUCTS
<b>V08</b>	<b>CONTRAST MEDIA</b>	❖	Classified in group T
V08A	X-RAY CONTRAST MEDIA, IODINATED	T1A +	LOW OSMOLAR ANGIO-UROGRAPHY

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

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		T1B +	IONIC ANGIO-UROGRAPHY
		T1D	CHOLECYSTOGRAPHY AND CHOLANGIOGRAPHY
V08B	X.RAY CONTRAST MEDIA, NON-IODINATED	T1C	GASTROENTEROGRAPHY
V08C	MAGNETIC RESONANCE IMAGING CONTRAST MEDIA	T1E	MRI AGENTS
V08D	ULTRASOUND CONTRAST MEDIA	❖	
		T1F	ULTRASOUND AGENTS
		T1X	OTHER IMAGING AGENTS
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V09	DIAGNOSTIC RADIOPHARMACEUTICALS	❖	Classified in group T
		T1G	RADIODIAGNOSTIC AGENTS
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V10	THERAPEUTIC RADIOPHARMACEUTICALS	V3C	RADIOPHARMACEUTICALS
	➤ Ibritumomab tiuxetan, tositumomab and iodine ( <sup>131</sup> I) tositumomab are classified here.		➤ Ibritumomab tiuxetan, tositumomab and iodine ( <sup>131</sup> I) tositumomab are classified in L1G.
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V20	SURGICAL DRESSINGS	❖	

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