

Medicines with Animal Origin

1st Edition
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MEDICINES WITH ANIMAL ORIGIN

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INTRODUCTION

Many drugs or medicines in the market are derived from animal origin either as an active ingredient or as a part of excipients. The use of animals primarily the tissue or bone of cattle, Chinese hamster and pig to produce drugs has been a concern to patients with religious and cultural restrictions especially in multiracial countries like Malaysia as well as increasing number of vegans. **Table 1** summarizes restrictions of certain religions or faiths ^{1,2}.

Buddhism	No specific dietary restriction, vary depending country of origin. Most are vegetarian, some may be vegan. Buddhism encourages vegetarian diet due to the principle of nonviolence and the avoidance of suffering
Hinduism	Most Hindus will avoid eating beef as cow is considered a holy animal. Some Hindus will also exclude eggs, onion or garlic in their diet.
Islam	Only permit Halal* beef, lamb, poultry and fish. Muslims are forbidden from eating pork and pork by-products, alcohol, and blood.
Sikhism	Many are vegetarian, some will exclude eggs in their meals. Some will exclude pork and beef in their diet. Sikhs are forbidden to eat ritually-slaughtered meat such as halal and kosher meat. Alcohol is also prohibited.
Jehovah's witness	Abstain from blood products e.g. blood transfusion or dishes made from blood, raw or rare meat. The decision regarding the use of fractions derived from the primary component is now accepted. It is considered a matter of conscience and is left to the individual.
Judaism	Allowed animals must be slaughtered, and their meat is prepared in accordance with the Jewish ritual (Kosher approved diet). They are forbidden from eating pork, camel, shellfish and fish without fins.

*Animals that have been killed according to Muslim law.

Table 1: Dietary restrictions according to religions or faiths

Common animal-derived excipients found in medications are gelatin made from bone of cattle or pigs to produce capsule shells or as coating agent, lactose from cattle milk as diluent for tablets, lanolin from sheep skin or wool as lubricant, and carmine from crushed insects as coloring agent³.

Islam encourages halal pharmaceuticals that includes halal source of gelatin, emulsifiers, stabilizers and additives. However, not only Islam but religions such as Judaism and Hindus allow medicines derived from pigs or beef if there are no suitable alternative medicines or in life-saving situation. Patients with certain types of allergy to certain animal products may benefit from this booklet as it provides information on the source of medicine.

Patient must be properly counselled on the presence of animal traces in their medication and a consent form must be signed in front of the healthcare provider after they achieved mutual agreement on the treatment planned for the patient. The consent form is kept inside the patient's file for documentation.

Appendix 1 shows the list of medicines with animal sources and **Appendix 2** shows the consent form that need to be signed by the patient and their primary physician.

References:

1. Faith & Food A Guide to Religious Dietary Requirements. Queensland Faith Communities Council (QFCC). 2011.
2. Chouraqui J, Turck D, Briand A, Darmaun D, Bocquet A, Feillet F Et al. Religious dietary rules and their potential nutritional and health consequences. International Journal of Epidemiology. 2020;50(1):12-26.
3. Strickland S. Dietary Restrictions: Implications on Medication Choice. British Journal of General Practice. 2014;64(627): e670-e671.

Appendix 1

List of animal source



Equine/horse



Porcine



Chinese hamster



Bovine



Chimeric mouse



Fish



Egg yolk/egg lecithin

Injections

No	Generic Name & strength	Current Brand Available	Animal Source	Comment
1.	Antithymocyte Globulin, Lymphocyte Ig 250mg Inj.	Atgam, Pfizer		Main ingredient: Gamma globulin from hyperimmune serum of horses immunized with human thymus lymphocytes ¹
2.	Antivenin Cobra 10ml Inj.	Cobra Antivenin, Queen Saovabha,		Main ingredient: purified equine immunoglobulin (horse) ²
3.	Enoxaparin sodium 20mg Inj, 0.2ml	Inhixa, China		Main ingredient: derived from porcine intestinal mucosa ³
4.	Enoxaparin sodium 40mg Inj, 0.4ml	Clexane, Sanofi-Aventis		Main ingredient: derived from porcine intestinal mucosa ⁴

5.	Enoxaparin sodium 60mg Inj, 0.6ml	Clexane, Sanofi-Aventis		Main ingredient: derived from porcine intestinal mucosa ⁵
6.	Etanercept 50mg Inj.	Enbrel, Pfizer		Main ingredient: produced by recombinant DNA technology in Chinese Hamster Ovary (Cho) Cells ⁶
7.	Fat Emulsion 20% Containing Fish Oil, Olive Oil, Soybean Oil & Mct 500ml Inj.	Smoflipid, Fresenius Kabi		Main ingredient: each 100ml contains 1.2% egg yolk phospholipids, each 100ml contains 3g of fish oil ⁷
8.	Fat Soluble Vitamin Inj, 10ml (Infant)	Vitalipid N Infant, Fresenius Kabi		Main ingredient: Every 1ml contains 12mg of egg lecithin ⁸
9.	Fat Soluble Vitamin Inj, 10ml (Adult)	Vitalipid Adult, Fresenius Kabi		Main ingredient: Every 1ml contains 12mg of egg lecithin ⁹
10.	Heparin sodium 1000IU/ml Inj.	Heparinol, Ain Medicare		Main ingredient: bovine origin ¹⁰
11.	Heparin sodium 5000IU/ml Inj.	Heparinol, Ain Medicare		Main ingredient: bovine origin ¹¹
12.	Methoxy Polyethylene Glycol - Epoietin Beta 50ug/0.3ml Inj.	Mircera, Roche		Main ingredient: produced by recombinant DNA technology in Chinese Hamster Ovary (CHO) cells ¹²
13.	Methoxy Polyethylene Glycol - Epoietin Beta 75ug/0.3ml Inj.	Mircera, Roche		Main ingredient: produced by recombinant DNA technology in Chinese Hamster Ovary (CHO) cells ¹³
14.	Recombinant Coagulation Factor VIIa 50kiu (1.0mg) Inj.	NovoSeven, Novo Nordisk		Main ingredient: produced by recombinant DNA technology in baby hamster kidney cells ¹⁴
15.	Omalizumab 150mg Powder and Solvent For Inj.	Xolair, Novartis		Main ingredient: manufactured by recombinant DNA technology in Chinese Hamster Ovary (CHO) mammalian cell line ¹⁵
16.	Rituximab 100mg Inj.	MabThera, Roche		Main ingredient: genetically engineered chimeric mouse/human monoclonal antibody ¹⁶

17.	Rituximab 500mg Inj.	MabThera, Roche		Main ingredient: genetically engineered chimeric mouse/human monoclonal antibody ¹⁷
18.	Tenecteplase 10,000iu (50mg) Inj.	Metalyse, Boehringer		Main ingredient: produced by recombinant DNA technology in Chinese Hamster Ovary (CHO) cells ¹⁸

Capsules

No	Generic Name & strength	Brand Name, Manufacturer	Animal Source	Comment
1.	Acitretin 10mg Cap.	Novatretin®, Schmidt Biomedtech		Source of capsule: Bovine ¹⁹
2.	Acitretin 25mg Cap.	Novatretin®, Schmidt Biomedtech		Source of capsule: Bovine ²⁰
3.	Alfacalcidol 0.25µg Cap.	One-Alpha®, Leo Pharma		Source of capsule: Bovine ²¹
4.	Alfacalcidol 1µg Cap.	One-Alpha®, Leo Pharma		Source of capsule: Bovine ²²
5.	Alverine 60mg, Simethicone 300mg Cap.	Meteospasmyl®, Emerging Pharma		Source of capsule: Bovine ²³
6.	Amoxycillin 250mg Cap.	Betamox®, Duopharma		Source of capsule: Bovine ²⁴
7.	Anagrelide 920mg Cap.	Agrylin®, Takeda Malaysia		Source of capsule: Bovine ²⁵
8.	Aprepitant 80mg (2's) + 125mg (1's) Cap. Tripack	Emend®, MSD		Source of capsule: Bovine ²⁶
9.	Atomoxetine HCl 10mg Cap.	Strattera®, Lilly		Source of capsule: Bovine ²⁷
10.	Atomoxetine HCl 18mg Cap.	Strattera®, Lilly		Source of capsule: Bovine ²⁸

11.	Atomoxetine HCl 25mg Cap.	Strattera®, Lilly		Source of capsule: Bovine ²⁹
12.	Atomoxetine HCl 40mg Cap.	Strattera®, Lilly		Source of capsule: Bovine ³⁰
13.	Atomoxetine HCl 60mg Cap.	Strattera®, Lilly		Source of capsule: Bovine ³¹
14.	Calcitriol 0.25mcg Cap.	Osteocap®, Mega lifesciences		Source of capsule: Bovine ³²
15.	Calcium Bp 350mg + Vitamin D3 500iu Cap.	Surbex® Calcium D3, Abbott Laboratories		Source of capsule: Bovine, sheep (Vitamin D3) ³³
16.	Celecoxib 200mg Cap.	Celebrex®, Pfizer		Source of capsule: Bovine ³⁴
17.	Celecoxib 400mg Cap.	Celebrex®, Pfizer		Source of capsule: Bovine ³⁵
18.	Cephalexin Monohydrate 250mg Cap.	Pharmaniaga Cephalexin, Pharmaniaga Manufacturing		Source of capsule: Bovine ³⁶
19.	Ceritinib 150mg Cap.	Zykadia®, Novartis Malaysia		Source of capsule: Bovine ³⁷
20.	Chondroitin Sulphate 400mg Cap.	Consulf®, AV Manufacturing		Source of capsule: Bovine ³⁸
21.	Ciclosporin 25mg Cap.	Sandimmun® Neoral, Novartis Malaysia		Source of capsule: Bovine ³⁹
22.	Ciclosporin 100mg Cap.	Sandimmun® Neoral, Novartis Malaysia		Source of capsule: Bovine ⁴⁰
23.	Clindamycin HCl 150mg Cap.	Lindacin® 150mg, Sunward Pharma		Source of capsule: Bovine ⁴¹
24.	Cloxacillin 250mg Cap.	Cloxacilla®, Idaman Pharma		Source of capsule: Bovine ⁴² Excipient: Lactose (Bovine milk) ⁴²

25.	Dabigatran 110mg Cap.	Pradaxa®, Boehringer Ingelheim		Source of capsule: Bovine ⁴³
26.	Dabigatran 150mg Cap.	Pradaxa®, Boehringer Ingelheim		Source of capsule: Bovine ⁴⁴
27.	Danazol 100mg Cap.	Anargil®, Medochemie Ltd		Source of capsule: Bovine ⁴⁵
28.	Danazol 200mg Cap.	Anargil®, Medochemie Ltd		Source of capsule: Bovine ⁴⁶
29.	Diacerein 50mg Cap.	Artrodar®, TRB Chemedica		Source of capsule: Bovine ⁴⁷
30.	Diltiazem HCL 100mg SR Cap.	Herbesser® R100, Mitsubishi Tanabe Pharma Malaysia		Source of capsule: Bovine ⁴⁸
31.	Diltiazem HCL 90mg SR Cap.	Herbesser® 90 SR, Mitsubishi Tanabe Pharma Malaysia		Source of capsule: Bovine ⁴⁹
32.	Doxycycline 100mg Cap.	Pharmaniaga Doxycycline, Pharmaniaga		Source of capsule: Bovine ⁵⁰
33.	Duloxetine 30mg Cap.	Cymbalta®, Lilly		Source of capsule: Bovine ⁵¹
34.	Duloxetine 60mg Cap.	Cymbalta®, Lilly		Source of capsule: Bovine ⁵²
35.	Dutasteride 0.5mg Cap.	Avodart®, GSK		Source of capsule: Bovine ⁵³
36.	Fingolimod 0.5mg Cap.	Gilenya®, Novartis Malaysia		Source of capsule: Bovine ⁵⁴
37.	Flunarizine HCl 5mg Cap.	Fludan, Medispec (M) Sdn. Bhd.		Source of capsule: Bovine ⁵⁵
38.	Gabapentin 300mg Cap.	Apo-Gabapentin 300mg, Apotex		Source of capsule: Bovine ⁵⁶
39.	Gemfibrozil 300mg Cap.	Pharmaniaga Gemfibrozil, Pharmaniaga		Source of capsule: Bovine ⁵⁷

40.	Glucosamine 250mg Sulphate + Chondroitin Sulphate 200mg Cap.	Conart®, AV Manufacturing		Source of capsule: Bovine ⁵⁸ Active ingredient: Shellfish
41.	Glucosamine Sulfate Sodium 250mg Cap.	Artricap®, AV Manufacturing		Source of capsule: Bovine ⁵⁹
42.	Glucosamine Sulphate Sodium 500mg Cap.	Viatril-S®, Rottapharm		Source of capsule: Bovine ⁶⁰
43.	Hydroxyurea 500mg Cap.	DHNP Hydroxyurea, Daehan New Pharm		Source of capsule: Bovine ⁶¹
44.	Isotretinoin 10mg Cap.	Actonin® 10, DKSH Malaysia		Source of capsule: Bovine ⁶²
45.	Isotretinoin 20mg Cap.	Acnotin® 20, DKSH Malaysia		Source of capsule: Bovine ⁶³
46.	Itraconazole 100mg Cap.	Inox®, Hovid Berhad		Source of capsule: Bovine ⁶⁴
47.	Levodopa 100mg/Benserazide 25mg Cap.	Madopar®, Roche Malaysia		Source of capsule: Bovine ⁶⁵
48.	Levodopa 100mg/Benserazide 25mg Cap.	Madopar® HBS 125, Roche Malaysia		Source of capsule: Bovine ⁶⁶
49.	Loperamide 2mg Cap.	Lomodium®, Dynapharm		Source of capsule: Bovine ⁶⁷
50.	Mycophenolate Mofetil 250mg Cap.	Mycofit®, Jetpharma		Source of capsule: Bovine ⁶⁸
51.	Nilotinib 150mg Cap.	Tasigna®, Novartis		Source of capsule: Bovine ⁶⁹
52.	Nilotinib 200mg Cap.	Tasigna®, Novartis		Source of capsule: Bovine ⁷⁰
53.	Nintedanib 150mg Cap.	Ofev®, Boehringer Ingelheim		Source of capsule: Porcine ⁷¹

54.	Obimin Pluz Softcap.	Obimin® Pluz, Unam Pharmaceutical		Source of capsule: Bovine ⁷²
55.	Omeprazole 20mg Cap.	Ometec®, Noripharma		Source of capsule: Bovine ⁷³
56.	Orlistat 120mg Cap.	Aslene®, Xepa Soul		Source of capsule: Bovine ⁷⁴
57.	Oxycodone Immediate Release 10mg Cap.	OxyNorm®, Mundipharma		Source of capsule: Bovine ⁷⁵
58.	Oxycodone Immediate Release 5mg Cap.	OxyNorm®, Mundipharma		Source of capsule: Bovine ⁷⁶
59.	Palbociclib 125mg Cap.	Ibrance®, Pfizer Malaysia		Source of capsule: Bovine ⁷⁷
60.	Pancreatin 150mg Cap.	Creon® 10,000, Abbott	 	Source of capsule: Bovine ⁷⁸ Active ingredient: Porcine ⁷⁸
61.	Phentermine 15mg Retard Cap.	Duromine®, iNova Pharmaceuticals		Source of capsule: Bovine ⁷⁹
62.	Phentermine 30mg Retard Cap.	Duromine®, iNova Pharmaceuticals		Source of capsule: Bovine ⁸⁰
63.	Phenytoin Sodium 100mg Cap.	Dilantin®, Pfizer Malaysia		Source of capsule: Bovine ⁸¹ Excipient: Lactose (bovine) ⁸¹
64.	Phenytoin Sodium 30mg Cap.	Dilantin®, Pfizer Malaysia		Source of capsule: Bovine ⁸² Excipient: Lactose (bovine) ⁸²
65.	Piascedine 300mg Cap.	Piascedine®, Hyphens Pharma		Source of capsule: Bovine ⁸³
66.	Pirfenidone 267mg Cap.	Esbriet®, Roche Malaysia		Source of capsule: Bovine ⁸⁴

67.	Pregabalin 150mg Cap.	Lyrica®, Pfizer Malaysia		Source of capsule: Bovine ⁸⁵
68.	Progesterone 100mg Cap.	Utrogestan®, Besins Manufacturing		Source of capsule: Bovine ⁸⁶
69.	Rifampicin 300mg Cap.	Rifampicin, Royce Pharma Malaysia		Source of capsule: Bovine ⁸⁷
70.	Rivastigmine Tartrate 1.5mg Cap.	Exelon®, Novartis Malaysia		Source of capsule: Bovine ⁸⁸
71.	Rivastigmine Tartrate 3mg Cap.	Exelon®, Novartis Malaysia		Source of capsule: Bovine ⁸⁹
72.	Rivastigmine Tartrate 6mg Cap.	Exelon®, Novartis Malaysia		Source of capsule: Bovine ⁹⁰
73.	Sunitinib Maleate 12.5mg Cap.	Sutent®, Pfizer Malaysia		Source of capsule: Bovine ⁹¹
74.	Tacrolimus 0.5mg Immediate Release Cap.	Prograf®, Astellas		Source of capsule: Bovine ⁹²
75.	Tacrolimus 1mg Immediate Release Cap.	Prograf®, Astellas		Source of capsule: Bovine ⁹³
76.	Temozolomide 100mg Cap.	Temodal®, MSD Malaysia		Source of capsule: Bovine ⁹⁴
77.	Tetracycline Hcl 250mg Cap.	Pharmaniaga Tetracycline, Pharmaniaga		Source of capsule: Bovine ⁹⁵
78.	Thalidomide 50mg Cap.	Domide®, TTY Biopharm		Source of capsule: Bovine ⁹⁶
79.	Tramadol Hcl 50mg Cap.	Acugesic®, Duopharma		Source of capsule: Bovine ⁹⁷
80.	Tranexamic Acid 250mg Cap.	Transamin®, Daiichi-Sankyo		Source of capsule: Bovine ⁹⁸
81.	Ursodeoxycholic Acid 250mg Cap.	Ursofalk®, Losan Pharma		Source of capsule: Bovine ⁹⁹
82.	Venlafaxine HCl 150mg XR Cap.	Efexor® XR, Viatris Sdn. Bhd.		Source of capsule: Bovine ¹⁰⁰

83.	Venlafaxine HCl 75mg XR Cap.	Efexor® XR, Viatris Sdn. Bhd.		Source of capsule: Bovine ¹⁰¹
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Tablets

No	Generic Name & strength	Brand Name	Animal Source	Comment
1.	Agomelatine 25mg Tab.	Valdoxan®, Servier Malaysia		Excipient: Lactose monohydrate (Milk source) ¹⁰²
2.	Ampicillin Sodium & Sulbactam Sodium 375mg Tab.	Unasyn®, Pfizer		Excipient: Lactose hydrate (bovine milk) and magnesium stearate (tallow oil) ¹⁰³
3.	Asenapine 5mg Sublingual Tab.	Saphris®, Organon Malaysia		Excipient: freeze dried matrix of gelatin (bovine hide) ¹⁰⁴
4.	Chlorpromazine 25mg Tab.	Chlorpromazine Idaman, Idaman Pharma		Excipient: Lactose monohydrate (bovine milk) ¹⁰⁵
5.	Chlorpromazine 100mg Tab.	Chlorpromazine Idaman, Idaman Pharma		Excipient: Lactose monohydrate (bovine milk) ¹⁰⁶
6.	Clozapine 25mg Tab.	Clozaril®, DHSH Malaysia		Excipient: Lactose monohydrate (bovine) ¹⁰⁷
7.	Clozapine 100mg Tab.	Clozarem®, Remedica		Excipient: Lactose monohydrate (bovine) ¹⁰⁸
8.	Conjugated Oestrogen 0.3mg Tab.	Premarin®, Pfizer		Active ingredient: derived from pregnant mare's urine. ¹⁰⁹
9.	Conjugated Oestrogen 0.625mg Tab.	Premarin®, Pfizer		Active ingredient: derived from pregnant mare's urine. ¹¹⁰

10.	Felodipine 2.5mg Extended Release Tab.	Plendil®, AstraZeneca		Excipient: Lactose anhydrous (by product of cow) ¹¹¹
11.	Felodipine 5mg Extended Release Tab.	Plendil®, AstraZeneca		Excipient: Lactose anhydrous (by product of cow) ¹¹²
12.	Felodipine 10mg Extended Release Tab.	Plendil®, AstraZeneca		Excipient: Lactose anhydrous (by product of cow) ¹¹³
13.	Hydrocortisone 10mg Tab.	Hydrocortisone, Orion Finland		Active ingredient: contain fish gelatin ¹¹⁴
14.	Levothyroxine Sodium 25mcg Tab	Euthyrox®, Merck		Active ingredient: contain fish gelatin ¹¹⁵
15.	Levothyroxine Sodium 50mcg Tab	Euthyrox®, Merck		Active ingredient: contain fish gelatin ¹¹⁶
16.	Levothyroxine Sodium 100mcg Tab	Euthyrox®, Merck		Active ingredient: contain fish gelatin ¹¹⁷
17.	Methotrexate 2.5mg Tab.	PFZ Methotrexate, Pfizer		Excipient: Lactose monohydrate (bovine) ¹¹⁸
18.	Quetiapine 50mg XR Tab	Seroquel XR®, AstraZeneca		Excipient: Lactose monohydrate (bovine) ¹¹⁹
19.	Quetiapine 200mg XR Tab	Seroquel XR®, AstraZeneca		Excipient: Lactose monohydrate (bovine) ¹²⁰
20.	Quetiapine 300mg XR Tab	Seroquel XR®, AstraZeneca		Excipient: Lactose monohydrate (bovine) ¹²¹
21.	Quetiapine 400mg XR Tab	Seroquel XR®, AstraZeneca		Excipient: Lactose monohydrate (bovine) ¹²²
22.	Risperidone 1mg Tab.	Rozidal®, Ranbaxy Malaysia		Excipient: Lactose monohydrate (milk sugar) ¹²³
23.	Risperidone 2mg Tab.	Rozidal®, Ranbaxy Malaysia		Excipient: Lactose monohydrate (milk sugar) ¹²⁴

Others

No	Generic Name & strength	Brand Name	Animal Source	Comment
1.	Amino Acid, Glu & Fat Emulsion 625ml Bag	Nutriflex Lipid Special, B. Braun		Excipient: contain egg lecithin ¹²⁵
2.	Amino Acid, Glu & Fat Emulsion With Fish Oil 625ml Bag	Nutriflex Omega Special, B. Braun		Excipient: contain egg lecithin ¹²⁶
3.	Protein Free Haemodialysate 10% Jelly (Solcoseryl) 20g	Solcoseryl, Solco Swiss		Main ingredient: Protein free haemodialysis from calves' blood ¹²⁷
4.	Smofkabiven Central (Amino Acid, Glu & Fat Emulsion Plus Soya Bean Oil, Mct, Olive Oil & Fish Oil) 1500ml	Smofkabiven Central, Fresenius Kabi		Main ingredient: contain fish oil in its lipid emulsion ¹²⁸ Excipient: contain egg lecithin ¹²⁸
5.	Smofkabiven Peripheral (Amino Acids, Glu & Fat Emulsion Plus Soya Bean Oil, Mct, Olive & Fish Oil) 1500ml	Smofkabiven Peripheral, Fresenius Kabi		Main ingredient: contain fish oil in its lipid emulsion ¹²⁹ Excipient: contain egg lecithin ¹²⁹

REFERENCES

1. Product Leaflet: ATIGAM®, Antithymocyte Globulin, Lymphocyte Ig 250mg Inj. Pfizer.
2. Outer Packaging: COBRA ANTIVENIN QUEEN®, Antivenin Cobra 10ml Inj. Saovabha.
3. Product Leaflet: INHIXA®, Enoxaparin Sodium 20mg Inj, 0.2ml. China.
4. Outer Packaging: CLEXANE®, Enoxaparin Sodium 40mg Inj, 0.4ml. Sanofi-Aventis.
5. Outer Packaging: CLEXANE®, Enoxaparin Sodium 60mg Inj, 0.6ml. Sanofi-Aventis.
6. Product Leaflet: ENBREL®, Etanercept 50mg Inj. Pfizer.
7. Product Leaflet: SMOFLIPID®, Fat Emulsion 20% Containing Fish Oil, Olive Oil, Soybean Oil & Mct 500ml Inj. Fresenius Kabi.
8. Product Leaflet: VITALIPID N INFANT®, Fat Soluble Vitamin Inj, 10ml (Infant). Fresenius Kabi.
9. Product Leaflet: VITALIPID ADULT®, Fat Soluble Vitamin Inj, 10ml (Adult). Fresenius Kabi.
10. Product Leaflet: HEPARINOL®, Heparin Sodium 1000IU/MI Inj. AIN Medicare.
11. Product Leaflet: HEPARINOL®, Heparin Sodium 5000IU/MI Inj. AIN Medicare.
12. Product Leaflet: MIRCERA®, Methoxy Polyethylene Glycol - Epoietin Beta 50ug/0.3ml Inj. Roche.
13. Product Leaflet: MIRCERA®, Methoxy Polyethylene Glycol - Epoietin Beta 70ug/0.3ml Inj. Roche.
14. Product Leaflet: NOVOSEVEN®, Recombinant Coagulation Factor VIIa 50kiu (1.0mg) Inj. Novo Nordisk.
15. Product Leaflet: XOLAIR®, Omalizumab 150mg Powder And Solvent For Inj. Novartis.
16. Product Leaflet: MABTHERA®, Rituximab 100mg Inj. Roche.
17. Product Leaflet: MABTHERA®, Rituximab 500mg Inj. Roche.
18. Product Leaflet: METALYSE®, Tenecteplase 10,000iu (50mg) Inj. Boehringer.
19. Outer Packaging: NOVATRETIN®, Acitretin 10mg Cap. Schmidt Biomedtech.
20. Outer Packaging: NOVATRETIN®, Acitretin 25mg Cap. Schmidt Biomedtech.
21. Outer Packaging: ONE-ALPHA®, Alfacalcidol 0.25µg Cap. Leo Pharma.
22. Outer Packaging: ONE-ALPHA®, Alfacalcidol 1µg Cap. Leo Pharma.
23. Product Leaflet: METEOSPASMYL®, Alverine 60mg, Simethicone 300mg Cap. Emerging Pharma.
24. Outer Packaging: BETAMOX®, Amoxycillin 250mg Cap. Duopharma.
25. Outer Packaging: AGRYLIN®, Anagrelide 920mg Cap. Takeda Malaysia.
26. Outer Packaging: EMEND®, Aprepitant 80mg (2's) + 125mg (1's) Cap. Tripack. MSD.
27. Outer Packaging: STRATTERA®, Atomoxetine Hcl 10mg Cap. Lilly.
28. Outer Packaging: STRATTERA®, Atomoxetine Hcl 18mg Cap. Lilly.
29. Outer Packaging: STRATTERA®, Atomoxetine Hcl 25mg Cap. Lilly.
30. Outer Packaging: STRATTERA®, Atomoxetine Hcl 40mg Cap. Lilly.
31. Outer Packaging: STRATTERA®, Atomoxetine Hcl 60mg Cap. Lilly.
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33. Product Leaflet: SURBEX® CALCIUM-D3, Calcium Bp 350mg + Vitamin D3 500iu Cap. Abbott Laboratories.
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35. Outer Packaging: CELEBREX®, Celecoxib 400mg Cap. Pfizer.
36. Outer Packaging: PHARMANIAGA CEPHALEXIN®, Cephalexin Monohydrate 250mg Cap. Pharmaniaga.

37. Outer Packaging: ZYKADIA®, Ceritinib 150mg Cap. Novartis Malaysia.
38. Product Leaflet: CONSULF®, Chondroitin Sulphate 400mg Cap. AV Manufacturing.
39. Outer Packaging: SANDIMMUN® NEORAL, Ciclosporin 25mg Cap. Novartis Malaysia.
40. Outer Packaging: SANDIMMUN® NEORAL, Ciclosporin 100mg Cap. Novartis Malaysia.
41. Outer Packaging: LINDACIN®, Clindamycin Hcl 150mg Cap. Sunward Pharma.
42. Outer Packaging: CLOXACILLA®, Cloxacillin 250mg Cap. Idaman Pharma.
43. Product Leaflet: PRADAXA®, Dabigatran 110mg Cap. Boehringer Ingelheim.
44. Product Leaflet: PRADAXA®, Dabigatran 150mg Cap. Boehringer Ingelheim.
45. Product Leaflet: ANARGIL®, Danazol 100mg Cap. Medochemie Ltd.
46. Product Leaflet: ANARGIL®, Danazol 200mg Cap. Medochemie Ltd.
47. Outer Packaging: ARTRODAR®, Diacerein 50mg Cap. TRB Chemedica.
48. Outer Packaging: HERBESSER® R100, Diltiazem HCL 100mg SR Cap. Mitsubishi Tanabe Pharma Malaysia
49. Outer Packaging: HERBESSER® 90 SR, Diltiazem HCL 90mg SR Cap. Mitsubishi Tanabe Pharma Malaysia
50. Product Leaflet: PHARMANIAGA DOXYCYCLINE ®, Doxycycline 100mg Cap. Pharmaniaga.
51. Outer Packaging: CYMBALTA®, Duloxetine 30mg Cap. Lilly.
52. Outer Packaging: CYMBALTA®, Duloxetine 60mg Cap. Lilly.
53. Outer Packaging: AVODART®, Dutasteride 0.5mg Cap. GSK.
54. Outer Packaging: GILENYA®, Fingolimod 0.5mg Cap. Novartis Malaysia.
55. Outer Packaging: FLUDAN®, Flunarizine Hcl 5mg Cap. Medispec (M) Sdn. Bhd.
56. Outer Packaging: APO-GABAPENTIN 300MG ®, Gabapentin 300mg Cap. Apotex.
57. Outer Packaging: PHARMANIAGA GEMFIBROZIL®, Gemfibrozil 300mg Cap. Pharmaniaga
58. Product Leaflet: CONART®, Glucosamine 250mg Sulphate + Chondroitin Sulphate 200mg Cap. AV Manufacturing.
59. Product Leaflet: ATRICAP®, Glucosamine Sulfate Sodium 250mg Cap. AV Manufacturing.
60. Product Leaflet: VIATRIL-S®, Glucosamine Sulphate Sodium 500mg Cap. Rottapharm.
61. Outer Packaging: DHNP Hydroxyurea. Daehan New Pharm.
62. Outer Packaging: ACTONIN, Isotretinoin 10mg Cap. Mega Lifescience Public Company
Outer Packaging: ACTONIN, Isotretinoin 20mg Cap. Mega Lifescience Public Company Limited
63. Outer Packaging: INOX, Itraconazole 100mg Cap. Hovid Berhad
64. Outer Packaging: MADOPAR®, Levodopa 100mg + Benserazide 25mg Cap. Roche Malaysia
65. Outer Packaging: MADOPAR® HBS 125, Levodopa 100mg + Benserazide 25mg Cap. Roche Malaysia
66. Product Leaflet: LOMODIUM, Loperamide 2mg Cap. Dynapharm
67. Product Leaflet: MYCOFIT®, Mycophenolate Mofetil 250mg Cap. Jetpharma
68. Outer Packaging: TASIGNA®, Nilotinib 150mg Cap. Novartis
69. Outer Packaging: TASIGNA®, Nilotinib 200mg Cap. Novartis
70. Product Leaflet: OFEV®, Nintedanib 150mg Cap. Boehringer Ingelheim
71. Product Leaflet: OBIMIN® Pluz Cap. Unam Pharmaceutical
72. Product Leaflet: OMETEC, Omeprazole 20mg Cap. Noripharma

73. Product Leaflet: ASLENE[®], Orlistat 120mg Cap. Xepa Soul
74. Product Leaflet: OXYNORM[®], Oxycodone Immediate Release 10mg Cap. Mundipharma
75. Product Leaflet: OXYNORM[®], Oxycodone Immediate Release 10mg Cap. Mundipharma
76. Outer Packaging: IBRANCE[®], Palbociclib 125mg Cap. Pfizer Malaysia
77. Product Leaflet: CREON[®] 10,000, Pancreatin 150mg Cap. Abbott
78. Product Leaflet: DUROMINE[®], Phentermine 15mg Cap. Inova Pharmaceuticals
79. Product Leaflet: DUROMINE[®], Phentermine 30mg Cap. Inova Pharmaceuticals
80. Outer Packaging: DILANTIN[®], Phenytoin Sodium 100mg Cap. Pfizer Malaysia
81. Outer Packaging: DILANTIN[®], Phenytoin Sodium 30mg Cap. Pfizer Malaysia
82. Product Leaflet: PIASCLEDINE[®] 300mg Cap. Hyphens Pharma.
83. Product Leaflet: ESBRIET[®], Pirfenidone 267mg Cap. Roche Malaysia
84. Product Leaflet: LYRICA[®], Pregabalin 150mg Cap. Pfizer Malaysia
85. Outer Packaging: UTROGESTAN[®], Progesterone 100mg Cap. Besins Manufacturing
86. Product Leaflet: RIFAMPICIN 300mg Cap. Royce Pharma Malaysia
87. Outer Packaging: EXELON[®], Rivastigmine Tartrate 1.5mg Cap. Novartis Malaysia
88. Outer Packaging: EXELON[®], Rivastigmine Tartrate 3mg Cap. Novartis Malaysia
89. Outer Packaging: EXELON[®], Rivastigmine Tartrate 6mg Cap. Novartis Malaysia
90. Outer Packaging: SUTENT[®], Sunitinib Maleate 12.5mg Cap. Pfizer Malaysia
91. Outer Packaging: PROGRAF[®], Tacrolimus 0.5mg Immediate Release Cap. Astellas
92. Outer Packaging: PROGRAF[®], Tacrolimus 1mg Immediate Release Cap. Astellas
93. Outer Packaging: TEMODAL[®], Temozolamide 100mg Cap. MSD Malaysia
94. Product Leaflet: PHARMANIAGA TETRACYCLINE, Tetracycline Hcl 250mg Cap. Pharmaniaga Manufacturing Berhad
95. Outer Packaging: DOMIDE, Thalidomide 50mg Cap. TTY Biopharm
96. Product Leaflet: ACUGESIC Tramadol Hcl 50mg Cap. Duopharma
97. Product Leaflet: TRANSAMIN[®], Tranexamic Acid 250mg Cap. Daiichi-Sankyo
98. Product Leaflet: URSOFALK[®], Ursodeoxycholic Acid 250mg Cap. Losan Pharma.
99. Outer Packaging: EFEXOR[®], Venlafaxine Hcl 150mg XR Cap. Viatris Sdn. Bhd.
100. Outer Packaging: EFEXOR[®], Venlafaxine Hcl 150mg XR Cap. Viatris Sdn. Bhd.
101. Product Leaflet: VALDOXAN[®], Agomelatine 25mg Tab. Servier Malaysia
102. Product Leaflet: UNASYN[®], Ampicillin Sodium & Sulbactam Sodium 375mg Tab. Pfizer Malaysia
103. Product Leaflet: SAPHRIS[®], Asenapine 5mg Sublingual Tab. Organon Malaysia
104. Product Leaflet: CHLORPROMAZINE IDAMAN, Chlorpromazine 25mg Tab. Idaman Pharma.
105. Product Leaflet: CHLORPROMAZINE IDAMAN, Chlorpromazine 100mg Tab. Idaman Pharma
106. Product Leaflet: CLOZARIL[®], Clozapine 25mg Tab. Mylan Healthcare Sdn. Bhd.
107. Product Leaflet: CLOZAREM, Clozapine 100mg Tab. Remedica
108. Product Leaflet: PREMARIN[®], Conjugated Oestrogen 0.3mg Tab. Pfizer Malaysia
109. Product Leaflet: PREMARIN[®], Conjugated Oestrogen 0.625mg Tab. Pfizer Malaysia
110. Product Leaflet: PLENDIL[®], Felodipine 2.5mg Extended Release Tab. AstraZeneca

111. Product Leaflet: PLENDIL[®], Felodipine 5mg Extended Release Tab. Astrazeneca
112. Product Leaflet: PLENDIL[®], Felodipine 10mg Extended Release Tab. Astrazeneca
113. Product Leaflet: HYDROCORTISONE 10mg Tab. Orion Finland
114. Product Leaflet: EUTHYROX[®], Levothyroxine Sodium 25mcg Tab. Merck
115. Product Leaflet: EUTHYROX[®], Levothyroxine Sodium 50mcg Tab. Merck
116. Product Leaflet: EUTHYROX[®], Levothyroxine Sodium 100mcg Tab. Merck
117. Product Leaflet: PFZ METHOTREXATE, Methotrexate 2.5mg Tab. Pfizer Malaysia
118. Product Leaflet: SEROQUEL[®] XR, Quetiapine 50mg XR Tab. Astrazeneca
119. Product Leaflet: SEROQUEL[®] XR, Quetiapine 200mg XR Tab. Astrazeneca
120. Product Leaflet: SEROQUEL[®] XR, Quetiapine 300mg XR Tab. Astrazeneca
121. Product Leaflet: SEROQUEL[®] XR, Quetiapine 400mg XR Tab. Astrazeneca
122. Product Leaflet: ROZIDAL, Risperidone 1mg Tab. Ranbaxy Malaysia
123. Product Leaflet: ROZIDAL, Risperidone 2mg Tab. Ranbaxy Malaysia
124. Product Leaflet: NUTRIFLEX[®] Lipid Special, Amino Acid, Glucose & Fat Emulsion 625ml Bag. B. Braun
125. Product Leaflet: NUTRIFLEX[®] Omega Special, Amino Acid, Glucose & Fat Emulsion With Fish Oil 625ml Bag. B. Braun
126. Product Leaflet: SOLCOSERYL[®], Protein Free Hemodialysate 10% Jelly. Solco Swiss
127. Product Leaflet: SMOFKABIVEN[®] Central, Amino Acid, Glucose & Fat Emulsion With Soya Bean Oil, MCT, Olive Oil & Fish Oil 1500ml Bag. Fresenius Kabi
128. Product Leaflet: SMOFKABIVEN[®] Peripheral, Amino Acid, Glucose & Fat Emulsion With Soya Bean Oil, MCT, Olive Oil & Fish Oil 1500ml Bag. Fresenius Kabi

Appendix 2

Masukkan borang ini di dalam FAIL PESAKIT



Pelekat nama pesakit

BORANG KEIZINAN UNTUK MENJALANI RAWATAN MENGGUNAKAN UBAT YANG MENGANDUNGI UNSUR HAIWAN

NAMA UBAT :

UNSUR HAIWAN :.....

PENYATAAN KEIZINAN DARIPADA PESAKIT

Saya telah diberitahu oleh doktor dan saya faham tentang penggunaan ubat dan rawatan yang akan diberikan kepada saya seperti berikut:

1

Ubat yang digunakan berasal dari unsur haiwan yang dinyatakan di atas.

1

Penerangan yang jelas telah diberikan kepada saya bahawa rawatan ini perlu diberikan kerana tiada alternatif/alternatif yang setara dari segi keberkesan dan keselamatan.

1

Saya telah diberi peluang untuk bertanya tentang penggunaan ubat tersebut dalam rawatan ini.

Saya faham dengan menandatangani borang ini, saya **bersetuju/tidak bersetuju** untuk menerima ubat yang disarankan dan bertanggungjawab terhadap penggunaan ubat ini sepanjang rawatan diberikan.

Tandatangan pesakit/waris	:	Tandatangan dan cop rasmi Pakar/ Pegawai Perubatan:
Nama pesakit/waris	:	
No. kad pengenalan pesakit/waris	:	
Hubungan dengan pesakit	:	
No. telefon untuk dihubungi	:	
Tarikh : _____		Tarikh : _____

Appendix 2

Kindly attach this form into PATIENT'S FILE



Patient's label

CONSENT FORM FOR TREATMENT USING MEDICINE WITH ANIMAL ORIGIN

MEDICINE(S) :

ANIMAL ORIGIN :

STATEMENT OF CONSENT BY PATIENT

I have been informed by the doctor and I understand the indication and usage of this medicine for the purpose of treatment as detailed below:

Medicine that will be used for my treatment is derived from the animal origin as mentioned above.

I have been educated on the necessity of the recommended treatment, in view of the absence of other treatment options with similar safety and efficacy profile.

I have been given the opportunity to acquire all necessary information to clarify any doubts regarding the proposed medicine and treatment.

I understand that by signing this consent form, I **agree/disagree** with the recommended medicine and will take full responsibility for all risks related to the use of medicine throughout the course of treatment.

Patient's signature/Next of kin :	Signature and Official Stamp of Specialist/Medical Officer:
Patient's name/Next of kin :	
NRIC patient/Next of kin :	
Relationship with patient :	
Contact Number :	
Date :	Date :

Appendix 2

请將此表格放入病人档案中



病人姓名贴纸

使用含有动物源性的药物进行治疗知情同意书

药物名称 :

动物源性 :

患者同意声明

医生已对我详细说明此药物的使用与治疗目的，内容如下：

我将使用的药物动物源性如上所述.

鉴于目前沒有其他具有类似安全性和功效性的治疗选项，我已充分理解此治疗方案的必要性.

我有机会询问所有关于此药物的重要信息及其治疗目的，且所有问题均已得到解答.

我了解通过签署此治疗知情同意书，我將 同意/不同意 接受使用该药物，并且愿意承担该药物在整个治疗过程中可能帶來的风险。

病人/家属/监护人签名 :	专科医生/主治医生的签名与盖章:
病人/家属/监护人姓名 :	
病人/监护人身份证号码 :	
监护人与病人的关系 :	
联系电话 :	
日期: _____	日期: _____

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