QUESTIONNAIRE

1.	Na	ame of National Medicines Regulatory Authority (or equivalent)
2.	Na	ame and position of respondent
PAI	RT.	A: REGULATORY FRAMEWORK
		Are you aware of the existence nanomedicines? A nanomedicine is defined as a product that contains or is manufactured using materials in the nanoscale range, i.e. 1 nanometer to 100 nanometers, and includes liposomes and other engineered particles in this size range.
		□ Yes □ No
Na	non	nedicine
	1.	Abelcet®- Amphotericin B complex 1:1 with DMPC and DMPG (7:3), >250 nm, ribbon
		like structures of a bilayered membrane
	2.	Adagen®- PEGylated adenosine eaminase. One enzyme molecule is odified with up to
		17 strands of PEG, MW 5,000, 114 oxymethylene groups per strand
	3.	AmBisome® - Amphotericin B encapsulated in liposomes (60–70 nm)omposed of
		hydrogenated soy phosphatidylcholine, cholesterol, and distearoyl
		phosphatidylglycerol (2/0.8/1 molar)
	4.	Amphotec® - Amphotericin B complex with cholesteryl sulfate (1:1). Colloidal
		dispersion of disc-like particles, 122 nm ×4 nm
	5.	Cimzia® - PEGylated antibody (Fab' fragment of a humanized anti-TNF-alpha antibody)
	6.	Copaxone® - Polypeptide (average MW 6.4 kDa) composed of four amino acids
		(glatiramer)
	7.	
		distearoyl phosphatidylcholine and cholesterol (2/1 molar)
	8.	DepoCyt® - Cytarabine encapsulated in multivesicular liposomes (20 μm; classified as
		nanopharmaceutical based on its individual drug containing "chambers") made from
		dioleoyl lecithin, dipalmitoyl phosphatidylglycerol, cholesterol, and triolein
	9.	
		se not a nanopharmaceutical – classified as such based only on its individual drug
		containing "nano-sized chambers") made from dioleoyl lecithin cholesterol, dipalmitoyl
		phosphatidylglycerol, tricaprylin, and triolein

- 10. Doxil® Doxorubicin hydrochloride encapsulated in Stealth® liposomes (100 nm) composed of N-(carbonyl- methoxypolyethylene glycol 2000)-1,2-distearoyl-sn-glycero3-phosphoethanolamine sodium, fully hydrogenated soy phosphatidylcholine, and cholesterol
- 11. Eligard® Leuprolide acetate (synthetic GnRH or LH-RH analog) incorporated in nanoparticles composed of PLGH copolymer (DL-lactide/glycolide; 1/1, molar)
- 12. Emend® Aprepitant as nanocrystal
- 13. Genexol® Paclitaxel in 20–50 nm micelles composed of block copolymer poly(ethylene glycol)- poly(D,L-lactide)
- 14. Inflexal® V Influenza virus antigens (hemagglutinin, neuraminidase) on surface of 150 nm Liposomes
- 15. Macugen® PEGylated anti-VEGF aptamer
- 16. Marqibo® Vincristine sulfate encapsulated in sphingomyelin/cholesterol (60/40, molar) 100 nm liposomes
- 17. Megace ES® Megestrol acetate as nanocrystal
- 18. MepactTM Mifamurtide (synthetic muramyl tripeptide-phosphatidylethanolamine) incorporated into large multilamellar liposomes composed of 1-palmitoyl-2-oleoyl-sn-glycerol-3-phosphocholine and 1,2-dioleoyl-sn-glycero-3-phospho-L-serine
- 19. Mircera® -PEGylated epoetin beta (erythropoietin receptor activator)
- 20. Myocet®- Doxorubicin encapsulated 180 nm oligolamellar liposomes composed of egg phosphatidylcholine/cholesterol (1/1, molar)
- 21. Neulasta® PEGylated filgrastim (granulocyte colony-stimulating factor)
- 22. Oncaspar® PEGylated L-asparaginase
- 23. Opaxio® Paclitaxel covalently linked to solid nanoparticles composed of polyglutamate
- 24. Pegasys® PEGylated interferon alfa-2b
- 25. PegIntron® PEGylated interferon alfa-2b
- 26. Rapamune® Rapamycin (sirolimus) as nanocrystals formulated in tablets
- 27. Renagel®- Cross-linked poly allylamine hydrochloride, MW variable
- 28. Somavert® PEGylated human growth hormone receptor antagonist
- 29. Tricor® Fenofibrate as nanocrystals
- 30. Triglide®- Fenofibrate as insoluble drug-delivery microparticles
- 31. Visudyne® Verteporfin in liposomes made of dimyristoyl-phosphatidylcholine and egg phosphatidylglycerol (negatively charged); lyophilized cake for reconstitution
- 32. Zinostatin stimalamer\$ Conjugate protein or copolymer of styrene-maleic acid and an antitumor protein NCS

	have been received.	
2	Does your regulatory agency h	nave a definition for nanomedicines?
٥.	☐ Yes	□ No
	If you responded YES to the	above question, please provide the definition
4.	Does your regulatory agency h	nave legal provisions that cover regulation of nanomedic
4.	Does your regulatory agency h ☐ Yes	nave legal provisions that cover regulation of nanomedic
4.	□ Yes	nave legal provisions that cover regulation of nanomedic No e above question, please provide details of the legislation
4.	□ Yes	□ No
4.	□ Yes	□ No
5.	☐ Yes If you responded YES to the	□ No

	quality, non-clinical/safety and cl	t have specific guidance documents for submission inical information for applications, including agency in the process of developing such guidance			
	□ Yes	□ No			
6.	Does your regulatory agency have in-house guidelines for the evaluation of the quality, non-clinical/safety and clinical aspects of nanomedicines?				
	□ Yes	□ No			
		have in-house guidance documents for the assessiory agency in the process of developing such guidance			
	□ Yes	□ No			
7.		specific technical committee for consideration of luding nanomedicines or committee members with			
	□ Yes	□ No			
8.	Please specify other external expert with regulation of nanomedicines, i	s or organisations that assist your regulatory agenc f any.			

□ No s specific for nanomedicines? □ No f your assessment templates cover nes? (You may tick more than one
☐ No f your assessment templates cover
f your assessment templates cover
☐ Characterisation methods
☐ Ecotoxicology
☐ Stability
ocidonod vndon nacional
nsidered under regional
□ No
specify the regional harmonisation

☐ Disagree	
☐ Strongly disagree	
☐ Unable to say	
•	
In your own opinion, is there need to incorporate assessment of nanomedicines into the	
regional harmonisation activities?	
☐ Strongly agree	
□ Agree	
□ Disagree	
☐ Strongly disagree	
☐ Unable to say	
- Chable to say	
Is there anything additional that you would like to mention with regards to this topic or questions above.	
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