

Can my medicine be returned to the refrigerator?

Minimization of wastage in case of storage incidents of cold-chain homecare medications

What was done?

- The Hospital Pharmacy categorized 47 Blood Coagulation Factors and Monoclonal Antibody Products requiring storage at 2-8 °C if Summary of Product Characteristics (SmPC) had any warning of returning a product to the refrigerator or not, after an unwanted time at room temperature

Why was it done?

- When we hesitate to return packages to the refrigerator, time runs while waiting for manufacturers or pharmacists answers to patients questions after storage incidents



Må medicinen stilles tilbage på køl?
"Forstehjælp" til Klinisk Farmaci og Vederlagsfri Medicin ved fejlopbearbejgning
Kontakt derefter Apotekets Information (23412120) for vurdering

Koagulations-faktorer og Monoklonale antistoffer	Stil gerne tilbage på køl, trods advarsel i SmPC	Stil gerne tilbage på køl, ingen advarsel i SmPC	Kontakt Apotekets Information for hjælp *	Hvor længe tåler præparatet stuetemp?	Generisk navn
Advate	X			6 måneder	Faktor VIII
Adynovi	X			3 måneder	Faktor VIII
Afstyla			X	3 måneder	Faktor VIII
Alprolix			X	6 måneder	Faktor IX
Almovig			X	7 dage	Erenumab
Amgevita		X		14 dage	Adalimumab
Benepali			X	4 uger	Etanercept
Cimzia	X			10 dage	Certolizumab pegol
Cluvot	X			-	Faktor XIII
Cosentyx		X		4 dage	Sekukinumab
Darzalex sc			X	24 timer	Daratumumab
Dupixent			X	14 dage	Dupilumab
Elesta			X	6 måneder	Faktor VIII
Enbrel			X	4 uger	Etanercept
Entyvio	X			7 dage	Vedolizumab
Erelzi			X	4 uger	Etanercept
Esperoct			X	12 måneder	Faktor VIII
Fasenra		X		14 dage	Benralizumab
Flixabi	X			6 måneder	Infliximab
Hemlibra		X		7 dage	Emicizumab
Humira		X		14 dage	Adalimumab
Hymizo		X		21 dage	Adalimumab
Imraldi		X		28 dage	Adalimumab
Jivi	X			6 måneder	Faktor VIII
Kesimpta	X			7 dage	Ofatumumab
Kevzara		X		14 dage	Sanlumab
Kovaltry		X		12 måneder	Faktor VIII
Kyntheum		X		14 dage	Brodalumab
NovoEight			X	9 måneder	Faktor VIII
NovoThirteen		X		-	Faktor XIII
Noviq	X			1 måned	Faktor VIII
Octanate LV		X		-	Faktor VIII
Praluent	X			30 dage	Allircumab
Refacto AF	X			3 måneder	Faktor VIII
Refixia			X	6 måneder	Faktor IX
Remicade	X			6 måneder	Infliximab
Rensima	X			6 måneder	Infliximab
Repatha	X			30 dage	Evoluzumab
RoActemra pen		X		14 dage	Tocilizumab
Simponi			X	30 dage	Golimubab
Simulect		X		30 dage	Basilixumab
Skyrizi		X		24 timer	Risankizumab
Stelara sprøjte			X	30 dage	Ustekinumab
Taltz		X		5 dage	Ixekizumab
Tysabri sprøjte			X	24 timer	Natalizumab
Wilnativ	X			2 måneder	Faktor-vonWillebr
Zessly	X			6 måneder	Infliximab

* Apotekets Information vejleder hvor disse præparater bør stilles, indtil sagen er vurderet. SE SIDE 2
Brug skemaet som forstehjælp når klinik eller patienter har spørgsmål om temperaturafvig. Beskriv fejlopbearbejgningen, varensnavn, lægemiddel, antal, temperatur, varighed, event batchnumre

Side 1 af 2 Hospitalapoteket Region Midtjylland
Apotekets Information hospitalsapoteket.apotinfo@rm.dk Januar 2023

How was it done?

- We asked manufacturers if a return of their product to the refrigerator would mean any harm. Should their product be disposed because of replacing in a refrigerator?
- Our findings were documented in a local guideline and in the danish national information database (SAID)
- Drug Information Pharmacists discussed several cases of real-world handling situations to be more confident to reduce medicine wastage

What has been achieved?

- Being aware of the reasons for these warnings, reduced medicine wastage in certain cases of incidental storage was registered
- The pharmacists have been given tools for pharmaceutical professional assessments in cases of temperature challenges

What next?

- Spread the good news
- Improve communication between manufacturer and pharmacy, because manufacturer can't be responsible for storage different from their SmPC
- Inspire manufacturers to improve their storage warnings in SmPC

