

DRUG-DELIVERY-SYSTEMS FOR OPAT SELF-ADMINISTRATION – A GRAPHIC GUIDE

What was done?

- A graphic guide showing the ready-to-use antibiotics for outpatient parenteral antimicrobial therapy (OPAT) with special emphasis on drug-delivery-systems suitable for self-administration at home was developed

Why was it done?

- Department of infectious diseases has implemented OPAT for patients requiring long-term antibiotic therapy
- To implement the OPAT throughout the hospital there was a need for an overview of available ready-to-use antibiotics for OPAT self-administration
- The graphic guide is a help in choosing the right drug-delivery-system suitable for OPAT

How was it done?

- Most information about the available ready-to-use antibiotics were obtained at the Hospital Pharmacy
- Requirements for the different drug-delivery-system were obtained by interviewing nurses from different wards

What has been achieved?






- Available ready-to-use antibiotics were listed in a graphic guide
- The graphic guide is part of the guideline for OPAT self-administration and available as a printed poster to place e.g. in the medicine room
- The guide is a help for the physicians in choosing the right drug-delivery-system and raise overall awareness of the possibility of OPAT as self-administration

What's next?

- Implementation of the OPAT guideline and the included graphic guide has increased awareness of the need for the hospital pharmacy to deliver ready-to-use antibiotics that can match the needs for safe and efficient treatment at home
- This is an important strategic focus for the hospital pharmacy in the coming years

Ready-to-Use antibiotics with stability > 24 hour

A graphic guide to »OPAT Self-administration«

Antibiotics	Administration	Duplex	Divibax	Infusor: Folfuser	Infusion bags	Syringes
	Recommendations apply only to adult patients. For more information see www.iv-vejledninger.dk	 Two-chamber bag, 50 ml NaCl Mix before use. Store at room temperature	 Coupled to 100 ml NaCl Mix before use. Store at room temperature	 Pre-filled pump for continuous infusion 10 ml/hour for 24 hours. Storage: see the individual antibiotic	 CADD pump administration Storage: see the individual antibiotic	 The antibiotic must be suitable for bolus administration Storage: see the individual antibiotic
Piperacillin and tazobactam	Intravenous infusion over at least 30 minutes.		4/0,5 g	8g/1g and 12g/1.5g Stability: 6 days at 2-8 °C + 24 hours below 32 °C	14g/1.75g for 280ml Stability: 5 days at 2-8 °C + 28 hours ≤ 25 °C	
Benzympenicillin	Short-term infusion over 20-30 min. Syringes: intravenous injection over at least 4 minutes. Max. 300 mg/minute.		3,0 g 1,2 g 0,6 g		900 mg-3000 mg Stability: 95 hours at 2-8 °C.	Individual doses 60 mg-1800 mg Stability: 95 hours at 2-8 °C.
Ceftriaxone	Intravenous infusion: 2 g over at least 30 min. 4 g over at least 60 min.		2 g		Doses >1500 mg Stability: 48 hours at 2-8 °C	
Cefuroxime	Intravenous infusion over 30-60 minutes	750 mg 1500 mg				
Cloxacillin	Intravenous infusion over 20-30 min.		1 g		Individual doses 1000 mg-3000 mg Stability: 72 hours at 2-8 °C.	
Meropenem	Intravenous infusion over 15-30 minutes: max. 1 g over 15 minutes.		1 g			