

## Supplement 1 – Description of items

ID	Dosing unit	Indication	Active ingredient	Route of administration	Dose type	Frequency	Age <sup>a</sup>	Weight [kg]	Height [cm]	Preterm
1	mL/dose	infection in cystic fibrosis patients	Ciprofloxacin	p.o. (liquid)	-	2x daily	6y 10mth	26	-	no
2	mg/dose	bacterial infection (severe)	Vancomycin	i.v.	-	4x daily	5wks <sup>d</sup>	4.18	-	yes – GA 35 2/7
3	drops/dose	epilepsy	Clonazepam <sup>b</sup>	p.o. (liquid)	loading dose / begin	3x daily	6y 7mth	29	-	no
4	mL/dose	acute otitis media	Amoxicillin – Clavulanic acid	p.o. (liquid)	-	2x daily	2y 8mth	14	-	no
5	mL/dose	candidiasis (systemic)	Fluconazole	p.o. (liquid)	-	1x daily	8y	31	-	no
6	mg/dose	bacterial infection (severe)	Flucloxacillin	i.v.	-	3x daily	6d	3.2	-	no

ID	Dispensing unit	Indication	Active ingredient	Route of administration	Dose type	Frequency	Age <sup>a</sup>	Weight [kg]	Height [cm]	Preterm
7	mg/dose	nausea and vomiting in chemotherapy	Dexamethasone dihydrogen phosphate disodium	i.v.	-	4x daily	1y 6mth	12	81	no
8	mg/dose	arthritis	Methotrexate <sup>b</sup>	s.c.	-	1x weekly	12y 5mth	36	138	no
9	mL/dose	prophylaxis of acute rejection in patients with allogenic kidney transplantation (in combination with ciclosporin and corticosteroids)	Mycophenolate mofetil <sup>b</sup>	p.o. (liquid)	-	2x daily	9y 3mth	32	122	no
10	mg/dose	fungal infection (invasive)	Caspofungin	i.v.	loading dose / begin	-	11mth	9.5	76	no
11	mL/dose	bacterial infection	Clarithromycin	p.o. (liquid)	-	2x daily	7mth	7.6	-	no
12	mg/dose	tuberculosis	Isoniazid	p.o.	-	1x daily	10y 7mth	38	-	no

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13	mL/dose	nausea and vomiting in chemotherapy	Ondansetron	p.o. (liquid)	follow-up treatment	3x daily	14y 10mth	46	BSA <sup>c</sup> : >1.2 m <sup>2</sup>	no
14	mg/dose	bacterial infection	Ceftriaxone	i.m.	-	1x daily	5wks <sup>d</sup>	3.82	-	yes – GA 36 5/7
15	mL/dose	pruritus	Hydroxyzine dihydrochloride	p.o. (liquid)	-	3x daily	5y 4mth	24	-	no
16	mg/dose	intoxication with benzodiazepines	Flumazenil	i.v.	loading dose / begin	-	8y 6mth	36	-	no
17	mL/dose	insomnia	Chloral hydrate	p.o. (liquid)	-	1x daily	5y 1mth	22	-	no
18	mg/dose	urolithiasis (urates / urinary stones)	Allopurinol	p.o.	-	1x daily	13y 1mth	42	-	no

<sup>a</sup> Age was shown to participants as birthdate calculated on the day of the experiment

<sup>b</sup> Substance with narrow therapeutic window

<sup>c</sup> BSA = body surface area (for this item the BSA was provided for the SmPC user as the dosing information differentiated between BSA >1.2 m<sup>2</sup> or <1.2 m<sup>2</sup>)

<sup>d</sup> corrected age