

Supplementary Table 1: Classification of intravenously administered drugs according to their potential to cause toxicity to the tissues in case of extravasation

ACTIVE SUBSTANCE	NATIONAL DRUG CODE TRADE NAME	EXCIPIENTS	VC	VESICANT/ CYTOTOXI CITY	ADVERSE EVENTS	pH [ref]	OSMOLARITY CHARACTERISTICS					Risk classifica tion
							ACTIVE SUBSTANCE FORM (salt or nonionized form)	n	IV MIXTURES (Dose /Total volume Solvent)	CALCULATED OSMOLARITY (mOsm/L)	Comparison osmometry- determined osmolality/ FINAL VALORATION	
ACETAMINOPHEN	605779 PARACETAMOL B.BRAUN 10 mg/ml SOLUCION PARA PERFUSION EFG	Mannitol, sodium citrate, acetic acid			Common	4.5-5.5 [10]	ACETAMINOPHEN	1	1 g/100 ml Intravenous Solution	376.16	CC <500 mOsm/L	High
ACETYLCYSTEINE	702836 HIDONAC ANTIDOTO 200 MG/ML CONCENTRADO PARA SOLUCION PARA PERFUSION	Edetate sodium, sodium hydroxide			No reported	6.5 [10]	ACETYLCYSTEINE	1	10.5 g/250 ml Dextrose 5%	535.35	CnC >500 mOsm/L	High
									3.5 g/517.5 ml Dextrose 5%	310.04	CnC <500 mOsm/L	
									7 g/1,000 ml Dextrose 5%	320.89	CnC <500 mOsm/L	
ACYCLOVIR	625525 ACICLOVIR ALTAN 250 mg polvo POLVO PARA SOLUCION PARA PERFUSION EFG	No		YES/ YES	Frecuency not reported	11 [11]	ACYCLOVIR	1	350 mg/114ml 0.9% Saline	285.56	CnC <500 mOsm/L	High
									750 mg/250ml 0.9% Saline	323.32	CnC <500 mOsm/L	
ALPROSTADIL	606249 ALPROSTADIL ALTAN 20 MICROGRAMOS POLVO PARA SOLUCION PARA PERFUSION EFG	Alpha- cyclodextrine, lactose monohydrate			Uncommon	NA	ALPROSTADIL	1	40 mcg/110 ml 0.9% Saline	281.82	CnC Inconclusive	High
									40 mcg/260 ml 0.9% Saline	298.08	CnC Inconclusive	
									60 mcg/115 ml 0.9% Saline	269.57	CnC Inconclusive	
AMIKACIN	618249 AMIKACINA BRAUN 10 mg/ml SOLUCION PARA PERFUSION INTRAVENOSA	No			Uncommon	3.5-5.5 [11]	AMIKACIN	1	1 g/100 ml Intravenous Solution	327.08	CC <500 mOsm/L	High
	625327 AMIKACINA NORMON 500 MG/2 ML SOLUCION INYECTABLE Y PARA PERFUSIÓN EFG	Sodium metabisulfite, sodium citrate			No reported				1.5 g/256 ml 0.9% Saline	312.74	CnC <500 mOsm/L	
AMIODARONE	605846 TRANGOREX 150 mg / 3 ml SOLUCION INYECTABLE	Benzyl alcohol, polysorbate 80			YES/ -	4.08 [12]	AMIODARONE HYDROCHLORIDE	2	300 mg/106 ml Dextrose 5%	270.57	CnC <500 mOsm/L	High
									900 mg/268 ml Dextrose 5%	269.18	CC <500 mOsm/L	
AMOXICILLIN- CLAVULANIC ACID	600028 AMOXICILINA/ACIDO CLAVULANICO NORMON 1.000 mg/200 mg POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	No			Rare	8.9 [13]	AMOXICILLIN- CLAVULANIC ACID	1-1	1 g- 200 mg/120ml 0.9% Saline	289.51	CnC <500 mOsm/L	Moderate
	606021 AMOXICILINA/ACIDO CLAVULANICO SANDOZ 2000mg/200mg POLVO	No			Rare				2 g- 200mg/120ml 0.9% Saline	312.31	CC <500 mOsm/L	

	PARA SOLUCION PARA PERFUSION EFG											
AMPICILIN	624635 GOBEMICINA 1g INYECTABLE	NA			No reported	8-10 [12]	AMPICILLIN SODIUM	2	2 g/108 ml 0.9% Saline	386.76	CC <500 mOsm/L	Low
ANFOTERICIN B Liposomal (AMBISOME)	679076 AMBISOME LIPOSOMAL 50 MG POLVO PARA DISPERSION PARA PERFUSION	Hydrogenated soy phosphatidylcholine, cholesterol, distearoylphosphatidylglycerol, alpha tocopherol, sucrose, disodium succinate hexahydrate		YES/ YES	No reported	5-6 [11]	AMPHOTERICIN B	1	350 mg/250 ml Dextrose 5%	279.45	CnC <500 mOsm/L	High
ANIDULAFUNGIN	721342 ANIDULAFUNGINA TEVA 100 MG POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Saccharose, polysorbate 80, tartaric acid			Uncommon	4.5 [10]	ANIDULAFUNGIN	1	100 mg/130 ml 0.9% Saline	239.14	CC <500 mOsm/L	High
									200 mg/260 ml 0.9% Saline	239.14	CnC <500 mOsm/L	
ARGATROBAN	682956 ARGANOVA 100 mg/ml CONCENTRADO PARA SOLUCION PARA PERFUSION	Sorbitol, ethanol			Uncommon	3.2-7.5 [10]	ARGATROBAN MONOHYDRATE	1	250 mg/252.5 ml 0.9% Saline	308.81	CnC Inconclusive	High
ATOSIBAN	834150 TRACTOCILE 7.5 mg/ml. CONCENTRADO PARA SOLUCION PARA PERFUSION	Mannitol			No reported	NA	ATOSIBAN	1	75 mg/100ml 0.9% Saline	279.75	CnC <500 mOsm/L	Low
AZATHIOPRINE	771436 IMUREL 50 mg POLVO PARA SOLUCION INYECTABLE	No		-/ YES	No reported	9.6 [12]	AZATHIOPRINE	1	175 mg/117.5 ml 0.9% Saline	269.20	CnC <500 mOsm/L	High
									250mg/250 ml 0.9% Saline	313.61	CnC <500 mOsm/L	
AZITHROMYCIN	767475 ZITROMAX 500 mg POLVO PARA SOLUCION PARA PERFUSION	Citric acid			Common	6.4-6.8 [12]	AZITHROMYCIN	1	500 mg/505 ml 0.9% Saline	308.25	CnC <500 mOsm/L	High
AZTREONAM	979823 AZACTAM 1g POLVO PARA SOLUCION INYECTABLE	Arginine			Frecuency not reported	4.5-7.6 [11]	AZTREONAM	1	1 g/60 ml 0.9% Saline	296.61	CC <500 mOsm/L	Moderate
									2 g/60 ml 0.9% Saline	287.05	CnC <500 mOsm/L	
									2 g/110 ml 0.9% Saline	296.61	CnC <500 mOsm/L	
BIVALIRUDINA	711001 BIVALIRUDINA SALA 250 MG POLVO PARA CONCENTRADO PARA SOLUCION INYECTABLE O PERFUSION EFG	Mannitol, sodium hydroxide			Rare	5-6 [11]	BIVALIRUDIN	1	250 mg/50 ml 0.9% Saline	281.29	CnC <500 mOsm/L	Moderate
CALCIUM CHLORIDE	635656 CLORURO DE CALCIO BRAUN 100 mg/ml SOLUCION INYECTABLE	No		YES/ NO	Frecuency not reported	NA	CALCIUM CHLORIDE HEXAHYDRATE	3	1 g/110 ml 0.9% Saline	406.31	CC <500 mOsm/L	High
									1 g/520 ml 0.9% Saline	330.77	CC <500 mOsm/L	
CALCIUM GLUCONATE	660231 SUPLECAL MINIPLASCO SOLUCION INYECTABLE	Calcium D-saccharate tetrahydrate		YES/ NO	Frecuency not reported	5.5-7.5 [10]	CALCIUM GLUCONATE MONOHYDRATE	3	1,880 mg/120 ml Dextrose 5%	336.49	CC <500 mOsm/L	High
									1,880 mg/120 ml 0.9% Saline	363.15	CC <500 mOsm/L	
									1,880 mg/520 ml Dextrose 5%	291.50	CC <500 mOsm/L	

									1,880 mg/520 ml 0.9% Saline	322.27	CC <500 mOsm/L	
									940 mg/110 ml Dextrose 5%	309.90	CC <500 mOsm/L	
									940 mg/110 ml 0.9% Saline	338.99	CC <500 mOsm/L	
									940 mg/510 ml Dextrose 5%	284.88	CC <500 mOsm/L	
									940 mg/510 ml 0.9% Saline	316.25	CC <500 mOsm/L	
CASPOFUNGIN	713553 CASPOFUNGINA SANDOZ FARMACÉUTICA 50 mg POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Sucrose, mannitol, glacial acetic acid, sodium hydroxide			Common	6.6 [11]	CASPOFUNGIN	1	35 mg/106.7 ml 0.9% Saline	290.75	CnC <500 mOsm/L	High
	713554 CASPOFUNGINA SANDOZ FARMACÉUTICA 70 mg POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Sucrose, mannitol, glacial acetic acid, sodium hydroxide			Common		CASPOFUNGIN	1	70 mg/260 ml 0.9% Saline	298.33	CC <500 mOsm/L	
CEFAZOLIN	615377 CEFAZOLINA NORMON 1 G POLVO Y DISOLVENTE PARA SOLUCIÓN INYECTABLE INTRAVENOSA EFG.	No			Frecuency not reported	4.5-6 [12]	CEFAZOLIN	1	1 g/60 ml 0.9% Saline	295.00	CnC <500 mOsm/L	Moderate
	615534 CEFAZOLINA NORMON 2 G POLVO PARA SOLUCIÓN INYECTABLE INTRAVENOSA EFG	No			Frecuency not reported		CEFAZOLIN	1	2 g/110 ml 0.9% Saline	321.82	CC <500 mOsm/L	
CEFEPIME	605996 CEFEPIMA KABI 1G POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	L- arginine			Common	4.0-6.0 [10]	CEFEPIME HYDROCHLORIDE MONOHYDRATE	3	1 g/60 ml 0.9% Saline	362.45	CC <500 mOsm/L	High
									2 g/110 ml 0.9% Saline	396.35	CnC <500 mOsm/L	
CEFOTAXIME	606061 CEFOTAXIMA SALA 1 g IV POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE EFG	No			Common	5-7.5 [12]	CEFOTAXIME	1	1 g/54 ml 0.9% Saline	327.69	CC <500 mOsm/L	High
	620039 CEFOTAXIMA SALA 2 G POLVO Y DISOLVENTE SOL INY IV EFG	No			Common		CEFOTAXIME	1	2 g/110 ml 0.9% Saline	321.73	CnC <500 mOsm/L	
									2 g/60 ml 0.9% Saline	331.51	CC <500 mOsm/L	
CEFOXITIN	615609 CEFOXITINA NORMON 1 g polvo y disolvente para solución inyectable y para perfusión EFG	No			Common	4.2-7 [11]	CEFOXITIN	1	2 g/120 ml 0.9% Saline	297.32	CnC <500 mOsm/L	High
CEFTAROLINE FOSAMIL	694011 ZINFORO 600 MG POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION	Arginine			Common	4.8-6.5 [11]	CEFTAROLINE FOSAMIL	1	600 mg/120 ml 0.9% Saline	265.64	CnC Inconclusive	High

CEFTAZIDIME	600633 CEFTAZIDIMA SALA 1.000 mg POLVO PARA SOLUCION PARA PERFUSION EFG	Sodium carbonate		Common	5-7.5 [11]	CEFTAZIDIME PENTAHYDRATE	1	1 g/60 ml 0.9% Saline	288.82	CC <500 mOsm/L	High	
								2 g/60 ml 0.9% Saline	319.32	CC <500 mOsm/L		
CEFTAZIDIME-AVIBACTAM	711654 ZAVICEFTA 2 G/0.5 G POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION	Sodium carbonate		Common	6.7 [13]	CEFTAZIDIME-AVIBACTAM SODIUM	1-2	2 g- 500 mg/112 ml 0.9% Saline	335.20	CC <500 mOsm/L	High	
CEFTOLOZANE-TAZOBACTAM	708026 ZERBAXA 1 G/0.5 G POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION	Sodium chloride, arginine, citric acid anhidro		Uncommon	6.06 [13]	CEFTOLOZANE-TAZOBACTAM	1-1	1 g- 0.5 g/111.4 ml 0.9% Saline	306.78	CC <500 mOsm/L	High	
CEFTRIAXONE	728103 CEFTRIAXONA FRESENIUS KABI 1 G. POLVO PARA SOLUCION INYECTABLE I.V. EFG	No		Rare	6.7 [11]	CEFTRIAXONE	1	1 g/110 ml 0.9% Saline	298.21	CnC <500 mOsm/L	Moderate	
	728104 CEFTRIAXONA FRESENIUS KABI 2 g POLVO PARA SOLUCIÓN PARA PERFUSIÓN EFG	No		Rare		CEFTRIAXONE	1	2 g/100 ml 0.9% Saline	346.06	CnC <500 mOsm/L		
							CEFTRIAXONE	1	2 g/50 ml 0.9% Saline	382.12		CC <500 mOsm/L
CEFUROXIME	626085 CEFUROXIMA SALA 1.500 mg POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	No		Common	6-8.5 [12]	CEFUROXIME SODIUM	2	1,500 mg/65 ml 0.9% Saline	349.04	CC <500 mOsm/L	High	
	625889 CEFUROXIMA SALA 750 mg POLVO PARA SOLUCION INYECTABLE EFG	No		Common		CEFUROXIME SODIUM	2	750 mg/56 ml 0.9% Saline	340.96	CC <500 mOsm/L		
CICLOSPORIN A	662478 SANDIMMUN 250 mg/5 ml CONCENTRADO PARA SOLUCION PARA PERFUSION	Ethanol, macrogolglycerol ricinoleate, polyoxyl 35 castor oil		-/ YES	No reported	6.61 [13]	CYCLOSPORIN A	1	250 mg/105 ml Dextrose 5%	266.74	CC >500 mOsm/L	High
CIDOFOVIR	712913 CIDOFOVIR TILLOMED 75 mg/ml CONCENTRADO PARA SOLUCIÓN PARA PERFUSIÓN EFG	Sodium hydroxide, hydrochloric acid		-/ YES	No reported	7.4 [10]	CIDOFOVIR ANHYDROUS	1	350 mg/104.7 ml 0.9% Saline	308.16	CnC <500 mOsm/L	High
CIPROFLOXACIN	600497 CIPROFLOXACINO ALTAN 2 MG/ML SOLUCION PARA PERFUSION EFG	Glucose monohydrate, lactic acid, hydrochloric acid			Frecuency not reported	3.9-4.5 [10]	CIPROFLOXACIN	1	400 mg/200 ml Intravenous Solution	284.04	CC <500 mOsm/L	Moderate
CISATRACURIUM BESYLATE	677765 NIMBEX 2 mg/ml SOLUCION INYECTABLE/PERFUSION	Benzenesulfonic acid			No reported	3.25-3.65 [11]	CISATRACURIUM BESYLATE	1	100 mg/50 ml Intravenous Solution	2.16	CC <500 mOsm/L	Low
CHLORPROMAZINE	777797 LARGACTIL 5 mg/ml SOLUCION INYECTABLE	Ascorbic acid, sodium citrate, sodium chloride, sodium metabisulfite, anhydrous sodium sulphite			No reported	3.4-5.4 [12]	CHLORPROMAZINE HYDROCHLORIDE	2	50 mg/60 ml 0.9% Saline	263.55	CnC <500 mOsm/L	Low

CLARITHROMYCIN	664607 CLARITROMICINA ALTAN 500 mg LIOFILIZADO PARA SOLUCION PARA PERFUSION EFG	Lactobionic acid, sodium hydroxide			Rare	5.36 [13]	CLARITHROMYCIN	1	500 mg/110 ml 0.9% Saline	287.89	CnC <500 mOsm/L	Moderate
									500 mg/260 ml 0.9% Saline	300.65	CC <500 mOsm/L	
CLEVIDIPINE	693620 CLEVIPREX 0.5MG/ML EMULSION INYECTABLE	Soybean oil, glycerol, egg phospholipids, oleic acid, edetate disodium, sodium hydroxide			No reported	6-8 [10]	CLEVIDIPINE	1	25 mg/50 ml LIPID EMULSION Intravenous Solution	Not calculated	CC <500 mOsm/L	Low
CLINDAMYCIN	606137 CLINDAMICINA ACCORD 150 MG/ML SOLUCION INYECTABLE EFG	Benzyl alcohol, edetate disodium			Frequency not reported	5.5-7 [12]	CLINDAMYCIN PHOSPHATE	1	1,200 mg/108 ml 0.9% Saline	309.04	CnC <500 mOsm/L	Moderate
									600 mg/104 ml 0.9% Saline	309.50	CnC <500 mOsm/L	
									600 mg/54 ml 0.9% Saline	309.04	CC <500 mOsm/L	
									900 mg/106 ml 0.9% Saline	309.27	CC <500 mOsm/L	
CLOMIPRAMINE	959825 ANAFRANIL 25 MG SOLUCIÓN INYECTABLE Y PARA PERFUSIÓN	Glycerol			Very rare	NA	CLOMIPRAMINE HYDROCHLORIDE	2	75 mg/256 ml 0.9% Saline	304.40	CnC Inconclusive	Moderate
									75 mg/506 ml 0.9% Saline	307.17	CnC Inconclusive	
CLONAZEPAM	715514 RIVOTRIL 1 mg/ ml CONCENTRADO Y DISOLVENTE PARA SOLUCION INYECTABLE	No			Frequency not reported	3.6 [12]	CLONAZEPAM	1	3 mg/103 ml 0.9% Saline	301.06	CnC <500 mOsm/L	Moderate
CLOXACILLIN	602342 ANACLOSIL 1000 mg polvo para solución inyectable y para perfusión	No			No reported	4.9 [13]	CLOXACILLIN	1	12 g/500 ml 0.9% Saline	290.66	CnC <500 mOsm/L	Low
									1 g/110 ml 0.9% Saline	302.67	CnC <500 mOsm/L	
COLISTIMETHATE SODIUM	700905 COLISTIMETATO DE SODIO ALTAN PHARMA 2 MILLONES DE UI POLVO PARA SOLUCIÓN INYECTABLE Y PARA PERFUSIÓN	No			Frequency not reported	7-8 [12]	COLISTIMETHATE SODIUM	6	160 mg/110ml 0.9% Saline	286.81	CnC <500 mOsm/L	Moderate
									160 mg/60ml 0.9% Saline	267.48	CnC <500 mOsm/L	
DAPTOMYCIN	719233 DAPTOMICINA DR. REDDYS 500 MG POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	Sodium hydroxide			Common	4.5 [13]	DAPTOMYCIN	1	350 mg/52 ml 0.9% Saline	299.26	CnC <500 mOsm/L	High
									500 mg/60 ml 0.9% Saline	263.48	CnC <500 mOsm/L	
DEXKETOPROFEN	619239 ENANTYUM 50 MG/2 ML SOLUCION INYECTABLE Y PARA PERFUSION	Ethanol, sodium chloride, sodium hydroxide			Common	7-8 [10]	DEXKETOPROFEN	1	50 mg/52 ml 0.9% Saline	301.86	CC <500 mOsm/L	High
DEXMEDETOMIDINE	719700 DEXMEDETOMIDINA EVER PHARMA 100 MICROGRAMOS/ML CONCENTRADO PARA SOLUCION PARA PERFUSION	Sodium chloride	YES		No reported	4.5-7.0 [10]	DEXMEDETOMIDINE	1	1,000 mcg/250 ml 0.9% Saline	310.00	CC <500 mOsm/L	High

DIGOXIN	777177 DIGOXINA KERN PHARMA 0.25 mg/ml SOLUCION INYECTABLE	Ethanol, propylene glycol, citric acid anhidro, dibasic sodium phosphate	YES	YES/ YES	No reported	6.7-7.3 [10]	DIGOXIN	1	0.250 mg/101 ml 0.9% Saline	306.93	CnC Inconclusive	High
									0.250 mg/251 ml 0.9% Saline	308.77	CnC Inconclusive	
									0.250 mg/51 ml 0.9% Saline	303.93	CnC Inconclusive	
									0.5 mg/102 ml 0.9% Saline	303.93	CC <500 mOsm/L	
									0.5 mg/252 ml 0.9% Saline	307.54	CnC Inconclusive	
0.5 mg/52 ml 0.9% Saline	298.09	CC >500 mOsm/L										
DOBUTAMINE	768341 DOBUTAMINA HOSPIRA 12.5 mg/ml CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Sodium metabisulfite, hydrochloric acid, sodium hydroxide	YES	YES/ YES	Common	2.5-5.5 [11]	DOBUTAMINE HYDROCHLORIDE	2	1,000 mg/250 ml Dextrose 5%	215.56	CnC <500 mOsm/L	High
									250 mg/250 ml Dextrose 5%	262.39	CC <500 mOsm/L	
									500 mg/250 ml Dextrose 5%	246.78	CC <500 mOsm/L	
DOPAMINE	947408 DOPAMINA GRIFOLS 200 mg SOLUCIÓN INYECTABLE	Sodium metabisulfite	YES	YES/ NO	Frequency not reported	2.5-5 [11]	DOPAMINE HYDROCHLORIDE	2	400 mg/250 ml 0.9% Saline	314.47	CC <500 mOsm/L	High
									800 mg/250 ml 0.9% Saline	318.95	CnC <500 mOsm/L	
EPINEPHRINE	602486 ADRENALINA B. BRAUN 1 mg/ml SOLUCION INYECTABLE	Sodium metabisulfite	YES	YES/ NO	Uncommon	2.2-5.0 [11]	EPINEPHRINE	1	15 mg/250 ml Dextrose 5%	278.33	CnC <500 mOsm/L	High
ERTAPENEM	721254 ERTAPENEM AUROVITAS 1 G POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Sodium bicarbonate, sodium hydroxide			Common	7.5 [11]	ERTAPENEM	1	1 g/60 ml 0.9% Saline	293.38	CC <500 mOsm/L	High
ERYTHROMYCIN	952440 PANTOMICINA INTRAVENOSA 1 G	Benzyl alcohol			Very rare	6.5-7.5 [12]	ERYTHROMYCIN LACTOBIONATE	2	1 g/1020 ml 0.9% Saline	305.72	CnC <500 mOsm/L	Moderate
									1 g/520 ml 0.9% Saline	301.60	CC <500 mOsm/L	
									250 mg/105 ml 0.9% Saline	299.60	CC <500 mOsm/L	
									500 mg/110 ml 0.9% Saline	290.14	CC <500 mOsm/L	
ESMOLOL	670502 BREVIBLOC 10 mg/ml SOLUCION INYECTABLE	Sodium chloride, sodium acetate, acetic acid, sodium hydroxide, hydrochloric acid	YES	YES/ NO	Uncommon	4.5-5.5 [10]	ESMOLOL HYDROCHLORIDE	2	2,500 mg/250 ml Intravenous Solution	300.00	CC <500 mOsm/L	High
FAT EMULSION	994459 LIPOFUNDINA MCT/LCT 20% EMULSIÓN PARA PERFUSIÓN	Glycerol, egg lecithin, tocopherol, sodium oleate			No reported	6.5-8.5 [10]			FAT EMULSION 20% Intravenous Solution	Not calculated	CC <500 mOsm/L	Low
FENTANYL	756650 FENTANEST 0.05 mg/ml SOLUCION INYECTABLE	Sodium chloride			Common	4.7 (4.0-7.5) [11]	FENTANYL CITRATE	2	1 mg/100 ml 0.9% Saline	310.06	CnC <500 mOsm/L	High
FERRIC CARBOXYMALTOS E	701387 FERINJECT 50 mg/ml SOLUCION INYECTABLE Y PARA PERFUSION	Sodium hydroxide, hydrochloric acid			Common	5.0-7.0 [11]	FERRIC CARBOXYMALTOS E	1	1,000 mg/270 ml 0.9% Saline	291.73	CnC <500 mOsm/L	High
									100 mg/52 ml 0.9% Saline	300.52	CnC <500 mOsm/L	

									200 mg/104 ml 0.9% Saline	300.52	CnC <500 mOsm/L	
									500 mg/260 ml 0.9% Saline	300.52	CnC <500 mOsm/L	
FLECAINIDE	976258 APOCARD 10 mg/ml SOLUCION INYECTABLE	Sodium acetate, acetic acid			No reported	5.8 [13]	FLECAINIDE ACETATE	2	150 mg/50 ml Dextrose 5%	223.58	CnC <500 mOsm/L	Low
FLUCONAZOLE	607089 FLUCONAZOL KABI 2 MG/ML SOLUCION PARA PERFUSION EFG	Sodium chloride, hydrochloric acid, sodium hydroxide			No reported	4.0-8.0 [10]	FLUCONAZOLE	1	100 mg/50 ml Intravenous Solution	316.53	CnC <500 mOsm/L	Low
	607090 FLUCONAZOL KABI 2 MG/ML SOLUCION PARA PERFUSION EFG	Sodium chloride, hydrochloric acid, sodium hydroxide			No reported		FLUCONAZOLE	1	200 mg/100 ml Intravenous Solution	316.53	CnC <500 mOsm/L	
	607091 FLUCONAZOL KABI 2 MG/ML SOLUCION PARA PERFUSION EFG	Sodium chloride, hydrochloric acid, sodium hydroxide			No reported		FLUCONAZOLE	1	400 mg/200 ml Intravenous Solution	316.53	CC <500 mOsm/L	
FLUMAZENIL	656407 FLUMAZENIL ALTAN 0.1 MG/ML SOLUCION INYECTABLE EFG	Edetate disodium, acetic acid, sodium chloride, sodium hydroxide			Common	3.8-4.4 [10]	FLUMAZENIL	1	2 mg/52 ml 0.9% Saline	298.20	CC <500 mOsm/L	High
									4 mg/104 ml 0.9% Saline	298.20	CnC <500 mOsm/L	
									5 mg/55 ml 0.9% Saline	282.12	CC <500 mOsm/L	
FOSCARNET	798330 FOSCAVIR 24 mg/ml SOLUCION PARA PERFUSION	Hydrochloric acid			Common	7.4 [11]	FOSCARNET SODIUM HEXAHYDRATE	4	4,500 mg/375 ml 0.9% Saline	314.98	CnC <500 mOsm/L	High
FOSFOMYCIN	606488 FOSFOCINA INTRAVENOSA 4 G	Recrystallized succinic acid			Frecuency not reported	7.75 [13]	FOSFOMYCIN DISODIUM	3	1 g/60 ml Dextrose 5%	506.36	CC >500 mOsm/L	High
	606488 FOSFOCINA INTRAVENOSA 4 G	Recrystallized succinic acid			Frecuency not reported		FOSFOMYCIN DISODIUM	3	4 g/270 ml Dextrose 5%	501.58	CnC >500 mOsm/L	
FUROSEMIDE	691204 SEGURIL 20 mg/2ml SOLUCION INYECTABLE	Sodium hydroxide, sodium chloride			No reported	9 [10]	SODIUM FUROSEMIDE	2	20 mg/52 ml 0.9% Saline	300.56	CnC <500 mOsm/L	High
	703870 SEGURIL 250 mg/25 ml SOLUCION INYECTABLE	Sodium hydroxide, sodium chloride	YES/ -		No reported		SODIUM FUROSEMIDE	2	250 mg/100 ml 0.9% Saline	325.12	CnC <500 mOsm/L	
									250 mg/250 ml 0.9% Saline	316.05	CnC <500 mOsm/L	
GANCICLOVIR	726403 GANCICLOVIR ACCORD 500 MG POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	No		YES/ YES	Common	10.8-11.4 [10]	GANCICLOVIR	1	350 mg/107 ml 0.9% Saline	302.54	CnC <500 mOsm/L	High
									500 mg/110 ml 0.9% Saline	299.63	CC <500 mOsm/L	
GENTAMICIN	617308 GENTAMICINA BRAUN 3 mg/ml SOLUCION PARA PERFUSION INTRAVENOSA	Sodium chloride, edetate disodium			Uncommon	4-4.5 [12]	GENTAMICIN SULPHATE	4	240 mg/80 ml Intravenous Solution	318.06	CC <500 mOsm/L	High
	624601 GENTA GOBENS 40 mg/ml	Sodium metabisulfite, methyl parahydroxybenzoate, propyl parahydroxybenzoate	YES/ YES		Frecuency not reported		GENTAMICIN SULPHATE	4	70 mg/51.8 ml 0.9% Saline	303.15	CnC <500 mOsm/L	
HALOPERIDOL	653109 HALOPERIDOL ESTEVE 5 mg/ml SOLUCION INYECTABLE	Lactic acid			No reported	3.0-3.6 [11]	HALOPERIDOL	1	5 mg/51 ml Dextrose 5%	272.81	CC <500 mOsm/L	Low



HEPARIN SODIUM	641639 HEPARINA SODICA ROVI 5000 UI/ml SOLUCION INYECTABLE	Sodium chloride, benzyl alcohol, sodium hydroxide			Rare	5.0-7.5 [11]	HEPARIN SODIUM	2	25,000 IU/500 ml Dextrose 5%	278.86	CnC <500 mOsm/L	Moderate
									25,000 IU/500 ml 0.9% Saline	310.86	CnC <500 mOsm/L	
HYDROCORTISON E	606541 ACTOCORTINA 100 mg POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE	No			No reported	7.6 [13]	HYDROCORTISONE SODIUM PHOSPHATE	1	100 mg/51 ml 0.9% Saline	307.95	CC <500 mOsm/L	Low
HYPERTONIC DEXTROSE	616284 GLUCOSA FRESENIUS KABI 10% SOLUCIÓN PARA PERFUSIÓN	Hydrochloric acid, sodium hydroxide	YES/ NO		Frequency not reported	3.5-6.5 [10]	DEXTROSE MONOHYDRATE	1	10% 500 ml Intravenous Solution	555.08	CC >500 mOsm/L	High
	626788 GLUCOSA FRESENIUS KABI 20% SOLUCIÓN PARA PERFUSIÓN	Hydrochloric acid, sodium hydroxide									Frequency not reported	
IMIPENEM-CILASTATIN	673420 IMIPENEM/CILASTATINA AUROVITAS 500 mg/500 mg POLVO PARA SOLUCION PARA PERFUSION EFG	Sodium bicarbonate			Common	6.5-8.5 [11]	IMIPENEM MONOHYDRATE-CILASTATIN SODIUM	1-2	500 mg- 500 mg/110 ml 0.9% Saline	322.33	CC <500 mOsm/L	High
IRON SUCROSE	882886 VENOFER 20 mg/ml SOLUCION INYECTABLE O CONCENTRADO PARA SOLUCION PARA PERFUSION	Sodium hydroxide			Common	10.5-11.1 [11]	IRON SUCROSE		200 mg/110 ml 0.9% Saline	395.45*	CC <500 mOsm/L	High
ISOPRENALINE	722700 ALEUDRINA 0.2 mg/ml SOLUCIÓN INYECTABLE	Sodium metabisulfite, edetate disodium, sodium chloride, hydrochloric acid	YES		No reported	2.5-4.5 [11]	ISOPRENALINE SULPHATE	3	1 mg/255 ml Dextrose 5%	272.57	CC <500 mOsm/L	High
ITRACONAZOLE	701397 ITRACONAZOL ALTAN 10 MG/ML CONCENTRADO Y DISOLVENTE PARA SOLUCION PARA PERFUSION EFG	Hydroxypropyl-β-cyclodextrin, propylene glycol, hydrochloric acid, sodium hydroxide			No reported	4.5 [11]	ITRACONAZOLE	1	200 mg/60 ml 0.9% Saline	314.72	CnC Inconclusive	Low
KETAMINE	776211 KETOLAR 50 mg/ml SOLUCION INYECTABLE	Benzethonium chloride			Uncommon	3.5-5.5 [11]	KETAMINE HYDROCHLORIDE	2	500 mg/260 ml 0.9% Saline	314.26	CC <500 mOsm/L	High
LABETALOL	945196 TRANDATE 5 mg/ml SOLUCIÓN INYECTABLE	Sodium hydroxide, hydrochloric acid			No reported	3-4.5 [12]	LABETALOL HYDROCHLORIDE	2	100 mg/100 ml Dextrose 5%	177.76	CC <500 mOsm/L	Low
									500 mg/250 ml Dextrose 5%	177.76	CC <500 mOsm/L	
LEVETIRACETAM	605932 LEVETIRACETAM NORMON 100 MG/ML CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Sodium acetate trihydrate, acetic acid, sodium chloride			No reported	5.5 [12]	LEVETIRACETAM	1	500 mg/105 ml 0.9% Saline	323.21	CC <500 mOsm/L	Low
LEVOFLOXACIN	723851 LEVOFLOXACINO KABI 5 MG/ML SOLUCION PARA PERFUSION EFG	Sodium chloride, hydrochloric acid, sodium hydroxide			Common	3.8-5.8 [12]	LEVOFLOXACIN	1	500 mg/100 ml Intravenous Solution	323.84	CC <500 mOsm/L	High
LEVOSIMENDAN	922773 SIMDAX 2.5 mg/ml CONCENTRADO PARA	Povidone, citric acid anhidro, ethanol			No reported	3.46[13]	LEVOSIMENDAN	1	12.5 mg/255 ml Dextrose 5%	272.72	CnC Inconclusive	Low



	SOLUCION PARA PERFUSION											
LEVOTYHYROXINE	696687 LEVOTIROXINA SANOFI 500 MICROGRAMOS POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE	Disodium hydrogen phosphate dihydrate, sodium chloride, mannitol, phosphoric acid, sodium hydroxide			No reported	NA	LEVOTHYROXINE SODIUM	2	500 mcg/105 ml 0.9% Saline	295.25	CnC <500 mOsm/L	Low
LIDOCAINE	645572 LIDOCAINA B. BRAUN 50 mg/ml solucion inyectable	Sodium hydroxide			No reported	5.0-7.0 [11]	LIDOCAINE HYDROCHLORIDE	2	1250 mg/500 ml Dextrose 5%	328.46	CnC <500 mOsm/L	Low
LINEZOLID	707755 LINEZOLID KABI 2 MG/ML SOLUCION PARA PERFUSION EFG	Glucose monohydrate, sodium citrate, citric acid, clorhidric acid, sodium hydroxide			Uncommon	4.6-5.0 [10]	LINEZOLID	1	600 mg/300 ml Intravenous Solution	283.92	CC <500 mOsm/L	High
LYSINE ACETYLSALICYLATE	601104 INYESPRIN	Glycine			Frecuency not reported	NA	LYSINE ACETYLSALICYLATE	2	900 mg/55 ml 0.9% Saline	382.10	CnC <500 mOsm/L	Moderate
MAGNESIUM SULPHATE	701105 SULFATO DE MAGNESIO ALTAN 150 MG/ML SOLUCION INYECTABLE Y PARA PERFUSION EFG	Sodium hydroxide	YES/ -	Frecuency not reported	4.5-7.5 [10]	MAGNESIUM SULPHATE HEPTAHYDRATE	2	1.5 g/110 ml Dextrose 5%	363.38	CnC Inconclusive	High	
								1.5 g/110 ml 0.9% Saline	392.47	CnC Inconclusive		
								1.5 g/60 ml Dextrose 5%	434.52	CnC Inconclusive		
								1.5 g/60 ml 0.9% Saline	461.19	CnC Inconclusive		
								22.5 g/500 ml Dextrose 5%	559.74	CnC Inconclusive		
								22.5 g/500 ml 0.9% Saline	582.14	CnC Inconclusive		
								24 g/500 ml Dextrose 5%	578.52	CnC Inconclusive		
								24 g/500 ml 0.9% Saline	600.28	CnC Inconclusive		
								4.5 g/100 ml Dextrose 5%	559.74	CnC Inconclusive		
								4.5 g/100 ml 0.9% Saline	582.14	CnC Inconclusive		
								7.5 g/100 ml Dextrose 5%	747.57	CC >500 mOsm/L		
7.5 g/100 ml 0.9% Saline	763.57	CC Inconclusive										
MANNITOL	622373 OSMOFUNDINA CONCENTRADA 20% SOLUCIÓN PARA PERFUSION	No	YES/ NO	Frecuency not reported	4.5-7.0 [10]	MANNITOL	1	20% 250 ml Intravenous Solution	1,097.86	CC >500 mOsm/L	High	
MEROPENEM	606316 MEROPENEM AUROVIT 1000 MG POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	Sodium carbonate			Common	MEROPENEM	1	1 g/110 ml 0.9% Saline	305.52	CnC <500 mOsm/L	High	
								1 g/60 ml 0.9% Saline	301.79	CC <500 mOsm/L		

METAMIZOLE	604306 NOLOTIL 0.4 g/ml SOLUCION INYECTABLE Y PARA PERFUSION	No			Uncommon	7.08 [13]	METAMIZOLE MAGNESIUM	3	2 g/105 ml 0.9% Saline	383.83	CC <500 mOsm/L	High
METHYLENE BLUE	721003 CLORURO DE METILTIONINIO PROVEBLUE 5 MG/ML SOLUCION INYECTABLE	No	YES	-/ YES	Common	3.0-4.5 [10]	METHYLENE BLUE	2	140 mg/78 ml 0.9% Saline	209.94	CnC <500 mOsm/L	High
METHYLPREDNISOLONE	682812 METILPREDNISOLONA NORMON 40 mg POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE EFG	Sodium hydroxide, dibasic sodium phosphate, monobasic sodium phosphate			No reported	7-8 [11]	METHYLPREDNISOLONE	1	100 mg/102.5 ml 0.9% Saline	305.04	CnC <500 mOsm/L	Low
METOCLOPRAMIDE	701782 METOCLOPRAMIDA KERN PHARMA 10MG/2ML SOLUCION INYECTABLE EFG	Sodium chloride			No reported	4.5-6.5 [11]	METOCLOPRAMIDE HYDROCHLORIDE	2	10mg/52 ml 0.9% Saline	299.22	CC <500 mOsm/L	Low
METOPROLOL	969337 BELOKEN 1 mg/ml SOLUCION INYECTABLE	Sodium chloride			No reported	5-8 [12]	METOPROLOL TARTRATE	3	40 mg/1000 ml 0.9% Saline	310.18	CnC <500 mOsm/L	Low
METRONIDAZOLE	643494 METRONIDAZOL I.V. BRAUN 5 mg/ml	Sodium chloride, dibasic sodium phosphate, citric acid		YES/ -	Rare	5.5 (4.5-7.0) [11]	METRONIDAZOLE	1	500 mg/100 ml Intravenous Solution	339.21	CC <500 mOsm/L	High
MICA FUNGIN	727518 MICA FUNGINA TEVA 100 MG POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	Saccharose, citric acid, sodium hydroxide			Common	5-7 [11]	MICA FUNGIN SODIUM	2	100 mg/110 ml 0.9% Saline	283.23	CC <500 mOsm/L	High
									50 mg/55 ml 0.9% Saline	283.23	CC <500 mOsm/L	
MIDAZOLAM	699332 MIDAZOLAM B. BRAUN 1 mg/ml SOLUCION INYECTABLE Y PARA PERFUSION EFG	Sodium chloride, hydrochloric acid			Frecuency not reported	2.9-3.7 [10]	MIDAZOLAM	1	100 mg/100 ml Intravenous Solution	313.07	CC <500 mOsm/L	Moderate
MILRINONE	998880 COROTROPE 1 mg/ml SOLUCIÓN INYECTABLE	Lactic acid, dextrose anhydrous			Frecuency not reported	3.2-4.0 [11]	MILRINONE LACTATE	2	20 mg/100 ml 0.9% Saline	311.33	CC <500 mOsm/L	Moderate
									30 mg/250 ml 0.9% Saline	310.80	CnC <500 mOsm/L	
MONOSODIUM PHOSPHATE	726520 FOSFATO MONOSODICO 1M FRESENIUS KABI 120 MG/ML CONCENTRADO PARA SOLUCION PARA PERFUSION	No			No reported	4.2-4.6 [10]	MONOSODIUM PHOSPHATE	2	1.2 g/110 ml 0.9% Saline	463.67	CnC <500 mOsm/L	Low
									1.2 g/260 ml 0.9% Saline	375.01	CnC <500 mOsm/L	
									1.2 g/510 ml 0.9% Saline	343.14	CnC <500 mOsm/L	
									2.4 g/270 ml 0.9% Saline	435.21	CnC <500 mOsm/L	
MORPHINE	656670 MORFINA SERRA 10 mg/ml SOLUCIÓN INYECTABLE	Sodium chloride, hydrochloric acid			Common	3.2-3.8 [10]	MORPHINE HYDROCHLORIDE	2	30 mg/100 ml 0.9% Saline	302.56	CC <500 mOsm/L	High
									100 mg/100 ml 0.9% Saline	285.22	CnC <500 mOsm/L	
MYCOPHENOLATE MOFETIL	712075 CELLCEPT 500 mg POLVO PARA CONCENTRADO PARA SOL. PARA PERFUSION	Polysorbate 80, citric acid, hydrochloric acid, sodium chloride			Common	2.4-4.1 [11]	MYCOPHENOLATE MOFETIL HYDROCHLORIDE	2	1 g/168 ml Dextrose 5%	257.00	CC <500 mOsm/L	High
									250 mg/42 ml Dextrose 5%	257.00	CC <500 mOsm/L	
									500 mg/84 ml Dextrose 5%	257.00	CC <500 mOsm/L	

								750 mg/126 ml Dextrose 5%	257.00	CC <500 mOsm/L	
NALOXONE	654774 NALOXONA KERN PHARMA 0.4 mg/ml SOLUCION INYECTABLE Y PARA PERFUSION	Sodium chloride, methyl parahydroxybenzoate, hydrochloric acid			Uncommon	3.0-4.5 [10]	NALOXONE HYDROCHLORIDE DIHYDRATE	2 4 mg/101 ml 0.9% Saline	306.95	CnC <500 mOsm/L	High
NIMODIPINE	600307 NIMODIPINO ALTAN 0.2 MG/ML SOLUCION PARA PERFUSION EFG	Ethanol, macrogol 400, citric acid, sodium citrate			Rare	6.0-7.5 [10]	NIMODIPINE	1 10 mg/50 ml Intravenous Solution	Not calculated	CC >500 mOsm/L	High
NITROGLYCERIN	971044 SOLINITRINA FUERTE 5 mg/ml solución inyectable	Ethanol			No reported	3-6.5 [12]	NITROGLYCERIN	1 25 mg/255 ml Dextrose 5%	272.98	CnC >500 mOsm/L	High
								25 mg/255 ml 0.9% Saline	304.35	CnC >500 mOsm/L	
NOREPINEPHRINE	661660 NORADRENALINA B. BRAUN 1mg/ml CONCENTRADO PARA SOLUCION PARA PERFUSION	Sodium chloride, sodium metabisulfite, hydrochloric acid	YES	YES/NO	Frequency not reported	3-4.5 [11]	L(-)-NOREPINEPHRINE BITARTRATE	2 30 mg/250 ml Dextrose 5%	278.75	CC <500 mOsm/L	High
								60 mg/250 ml Dextrose 5%	279.50	CC <500 mOsm/L	
OCTREOTIDE	990499 SANDOSTATIN 100 microgramos/ml SOLUCION INYECTABLE Y PARA PERFUSION	Lactic acid, mannitol, sodium bicarbonate			Very common	4.2 ±0.3 [11]	OCTREOTIDE ACETATE	2 500 mcg/65 ml 0.9% Saline	286.17	CnC <500 mOsm/L	High
OMEPRAZOLE	600631 OMEPRAZOL NORMON 40 mg POLVO PARA SOLUCION PARA PERFUSION EFG	Edetate disodium, sodium hydroxide			No reported	9.3-10.3 [10]	OMEPRAZOLE SODIUM	2 100 mg/262.5 ml 0.9% Saline	297.45	CnC <500 mOsm/L	Low
						8.9-9.5 [10]		40 mg/105 ml Dextrose 5%	266.97	CC <500 mOsm/L	
						9.3-10.3 [10]		40 mg/105 ml 0.9% Saline	297.45	CC <500 mOsm/L	
ONDANSETRON	602718 ONDANSETRON NORMON 4mg/2 ml SOLUCION INYECTABLE EFG	Citric acid monohydrate, sodium citrate, sodium chloride			No reported	3.3-4 [11]	ONDANSETRON	1 4 mg/52 ml 0.9% Saline	298.34	CC <500 mOsm/L	Low
	602719 ONDANSETRON NORMON 8mg/4 ml SOLUCION INYECTABLE EFG	Citric acid monohydrate, sodium citrate, sodium chloride		No reported	ONDANSETRON		1 8 mg/104 ml 0.9% Saline	298.34	CnC <500 mOsm/L		
					8 mg/54 ml 0.9% Saline		287.54	CC <500 mOsm/L			
OXYCODONE	663685 OXYNORM 10 mg/ml SOLUCION INYECTABLE Y PARA PERFUSION	Citric acid monohydrate, sodium citrate, sodium chloride, hydrochloric acid, sodium hydroxide			No reported	NA	OXYCODONE HYDROCHLORIDE	2 100 mg/100 ml 0.9% Saline	315.68	CnC <500 mOsm/L	Low
OXYTOCIN	629485 SYNTOCINON 10UI/ML SOLUCIÓN INYECTABLE Y PARA PERFUSIÓN	Ethanol, sodium acetate trihydrate, chlorobutanol, sodium chloride, acetic acid		-/ YES	No reported	3-5 [12]	OXYTOCIN	1 10 IU/1001 ml 0.9% Saline	309.69	CnC Inconclusive	High
PENICILLIN G SODIUM	605378 SODIOPEN 2.000.000 U.I.	NA			No reported	5-7.5 [12]	PENICILLIN G SODIUM	2 1 MU/52 ml 0.9% Saline	362.83	CnC <500 mOsm/L	Low
								24 MU/1000 ml 0.9% Saline	375.93	CnC <500 mOsm/L	

									24 MU/500 ml 0.9% Saline	441.86	CnC <500 mOsm/L	
PENTAMIDINE	781641 PENTACARINAT 300 MG POLVO PARA SOLUCION INYECTABLE	No		YES/ YES	Very common	4.09-4.38 [12]	PENTAMIDINE ISETHIONATE	3	280 mg/252.8 ml Dextrose 5%	280.53	CC <500 mOsm/L	High
PHENYTOIN	619825 FENITOINA RUBIO 50 MG/ML SOLUCIÓN INYECTABLE	Ethanol, propylene glycol, sodium hydroxide		YES/ YES	Frequency not reported	12 [11]	PHENYTOIN SODIUM	2	100 mg/52 ml 0.9% Saline	312.10	CC >500 mOsm/L	High
									1,250 mg/100 ml 0.9% Saline	401.16	CnC >500 mOsm/L	
									250 mg/55 ml 0.9% Saline	314.97	CC >500 mOsm/L	
PIPERACILLINA-TAZOBACTAM	664439 PIPERACILINA/TAZOBACTAM KABI 4 g/0.5 g POLVO PARA SOLUCION PARA PERFUSION EFG	No		-/ YES	Common	4.5-6.8 [12]	PIPERACILLIN-TAZOBACTAM	1-1	12 g- 1.5 g/250 ml 0.9% Saline	348.32	CnC <500 mOsm/L	High
									4 g- 0.5g/120 ml 0.9% Saline	336.61	CnC <500 mOsm/L	
									4 g- 0.5 g/50 ml 0.9% Saline	355.61	CC <500 mOsm/L	
POSACONAZOLE	704624 NOXAFIL 300 MG CONCENTRADO PARA SOLUCION PARA PERFUSION	Betadex sulfobutyl ether sodium, edetate disodium, hydrochloric acid, sodium hydroxide			Uncommon	2.6 [11]	POSACONAZOLE	1	300 mg/166.7 ml 0.9% Saline	281.51	CnC Inconclusive	High
									300 mg/266.7 ml 0.9% Saline	292.19	CnC Inconclusive	
POTASSIUM CHLORIDE	607145 CLORURO DE POTASIO BRAUN 2 mEq/ml CONCENTRADO PARA SOLUCION PARA PERFUSION	No		YES/ YES	Frequency not reported	3.5-6.5 [11]	POTASSIUM CHLORIDE	2	20 mEq/110 ml Dextrose 5%	618.56	CC >500 mOsm/L	High
									20 mEq/110 ml 0.9% Saline	647.65	CC >500 mOsm/L	
									20 mEq/1,010 ml Dextrose 5%	315.09	CnC <500 mOsm/L	
									20 mEq/1,010 ml 0.9% Saline	346.77	CnC <500 mOsm/L	
									20 mEq/510 ml Dextrose 5%	351.45	CnC <500 mOsm/L	
									20 mEq/510 ml 0.9% Saline	382.83	CnC <500 mOsm/L	
									40 mEq/120 ml Dextrose 5%	902.36	CC >500 mOsm/L	
									40 mEq/120 ml 0.9% Saline	929.02	CC >500 mOsm/L	
									40 mEq/1,020 ml Dextrose 5%	351.45	CnC <500 mOsm/L	
									40 mEq/1,020 ml 0.9% Saline	382.83	CnC <500 mOsm/L	
									40 mEq/520 ml Dextrose 5%	422.08	CnC <500 mOsm/L	
									40 mEq/520 ml 0.9% Saline	452.85	CnC <500 mOsm/L	
POTASSIUM PHOSPHATE DIBASIC	726519 FOSFATO DIPOTASICO 1M FRESENIUS KABI 174.2 MG/ML SOLUCION INYECTABLE	No		YES/ -	No reported	8.5-9.7 [10]	POTASSIUM PHOSPHATE DIBASIC	3	1M (1 amp)/110 ml 0.9% Saline	554.58	CnC Inconclusive	High
									1M (1amp)/260 ml 0.9% Saline	413.48	CC <500 mOsm/L	
									1M (1amp)/510 ml 0.9% Saline	362.75	CnC Inconclusive	
									1M (2 amp)/120 ml 0.9% Saline	758.40	CnC Inconclusive	

									1M (2 amp)/270 ml 0.9% Saline	509.29	CC <500 mOsm/L	
									1M (2 amp)/520 ml 0.9% Saline	413.48	CnC Inconclusive	
PROPOFOL	697791 PROPOFOL LIPURO 20 mg/ml EMULSIÓN INYECTABLE y PARA PERFUSIÓN	Soybean oil, Moderate chain triglycerides, glycerol, egg lecithin, sodium oleate		YES/ YES	Very common	7-8.5 [11]	PROPOFOL	1	2% 50 ml Intravenous Solution	Not calculated	CC <500 mOsm/L	High
RANITIDINE	601260 RANITIDINA NORMON 10 MG/ ML SOLUCIÓN INYECTABLE EFG	Sodium hydroxide			No reported	6.7-7.3 [11]	RANITIDINE HYDROCHLORIDE	2	50 mg/50 ml 0.9% Saline	287.00	CC <500 mOsm/L	Low
REMIFENTANIL	677270 REMIFENTANILO SALA 2 mg POLVO PARA CONCENTRADO PARA SOLUCION INYECTABLE O PERFUSION EFG	Glycine, hydrochloric acid			Uncommon	2.5-3.5 [10]	REMIFENTANIL HYDROCHLORIDE	2	2 mg/250 ml 0.9% Saline	310.04	CnC <500 mOsm/L	High
									5 mg/100 ml 0.9% Saline	310.24	CC <500 mOsm/L	
RIFAMPICIN	962696 RIFALDIN 600 mg POLVO Y DISOLVENTE PARA SOLUCION PARA PERFUSION	Sodium formaldehyde sulfoxylate, sodium hydroxide,			Frequency not reported	NA	RIFAMPICIN	1	600 mg/110 ml 0.9% Saline	288.45	CC <500 mOsm/L	Moderate
									600 mg/260 ml 0.9% Saline	300.88	CnC <500 mOsm/L	
RITODRINE	809319 PRE-PAR 10 mg/ml SOLUCION INYECTABLE	Acetic acid, sodium hydroxide, sodium metabisulfite, sodium chloride			No reported	NA	RITODRINE HYDROCHLORIDE	2	150 mg/65 ml Dextrose 5%	228.10	CnC <500 mOsm/L	Low
ROCURONIUM	659850 ESMERON 10 mg/ml SOLUCION INYECTABLE Y PARA PERFUSION	Sodium acetate, sodium chloride, acetic acid			Uncommon	3.8-4.2 [10]	ROCURONIUM BROMIDE	2	250 mg/250 ml 0.9% Saline	313.28	CnC <500 mOsm/L	High
SODIUM BICARBONATE	634477 VENOFUSIN BICARBONATO SÓDICO 1 M SOLUCIÓN PARA PERFUSIÓN	Edetate sodium			Frequency not reported	7-8.5 [10]	SODIUM BICARBONATE	2	1 M (8.4%) 250 ml Intravenous Solution	1,999.83	CC >500 mOsm/L	High
	607812 BICARBONATO SODICO 1/6 M MEIN SOLUCION PARA PERFUSION	No		YES/ NO	Frequency not reported		SODIUM BICARBONATE	2	1/6 M (1.4%) 250 ml Intravenous Solution	333.31	CnC <500 mOsm/L	
	607838 BICARBONATO SODICO 1/6 M MEIN SOLUCION PARA PERFUSION	No			Frequency not reported		SODIUM BICARBONATE	2	1/6 M (1.4%) 500 ml Intravenous Solution	333.31	CnC <500 mOsm/L	
SODIUM CALCIUM EDETATE	000097 EDETATO CALCICO DE SODIO SERB 5% SOLUCIÓN INYECTABLE**	No		YES/ -	No reported	NA	SODIUM CALCIUM EDETATE	6	1 g/520 ml 0.9% Saline	314.45	CnC <500 mOsm/L	High
SODIUM CHLORIDE HYPERTONIC 2%	614552 APIOSERUM CLORURADO HIPERTONICO	No		YES/ NO	No reported	NA	SODIUM CHLORIDE	2	2% 500 ml Intravenous Solution	684.46	CC >500 mOsm/L	High
SODIUM NITROPRUSSIDE	936732 NITROPRUSSIAT FIDES 50 MG POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE	Sodium citrate, dextrose anhydrous			No reported	3.5-6 [12]	SODIUM NITROPRUSSIDE	3	100 mg/500 ml Dextrose 5%	311.01	CnC <500 mOsm/L	Low

SOMATOSTATIN	659658 SOMATOSTATINA NORMON 3 mg POLVO Y DISOLVENTE PARA SOLUCION PARA PERFUSION EFG	Sodium chloride			No reported	NA	SOMATOSTATIN ACETATE MONOHYDRATE	1	6 mg/251 ml 0.9% Saline	308.78	CnC <500 mOsm/L	Low
SULFAMETOXAZOLE-TRIMETHOPRIM	656754 SOLTRIM 160MG/800MG POLVO Y SOLUCION PARA SOLUCION INYECTABLE	Benzyl alcohol, glycofurol, glycerin formaldehyde, sodium metabisulfite			Frecuency not reported	10 [11]	SULFAMETOXAZOLE LYSINATE-TRIMETHOPRIM	1-1	160 mg- 800 mg/256 ml 0.9% Saline	315.97	CC <500 mOsm/L	Moderate
TACROLIMUS	680678 PROGRAF 5 mg/ml CONCENTRADO PARA SOLUCION PARA PERFUSION	Polyoxyl 60 hydrogenated castor oil, ethanol			-/ YES	Common	TACROLIMUS	1	700 mcg/250 ml 0.9% Saline	310.00	CnC Inconclusive	High
TEICOPLANIN	702288 TEICOPLANINA SALA 400 MG POLVO PARA SOLUCION INYECTABLE Y PARA PERFUSION EFG	Sodium chloride			Common	7-8 [13]	TEICOPLANIN	1	400 mg/103.2 ml 0.9% Saline	302.45	CnC <500 mOsm/L	High
									400 mg/53.2 ml 0.9% Saline	295.35	CC <500 mOsm/L	
									800 mg/106.4 ml 0.9% Saline	295.35	CnC <500 mOsm/L	
THEOPHYLLINE	610188 EUFILINA VENOSA 200 mg SOLUCIÓN INYECTABLE	Sodium acetate, sodium hydroxide			No reported	3.5-6.5 [12]	THEOPHYLLINE ANHYDROUS	1	200 mg/60 ml 0.9% Saline	276.84	CnC <500 mOsm/L	Low
									400 mg/120 ml 0.9% Saline	276.84	CnC <500 mOsm/L	
									400 mg/270 ml 0.9% Saline	295.26	CnC <500 mOsm/L	
									600 mg/250 ml 0.9% Saline	323.32	CnC <500 mOsm/L	
									600 mg/500 ml 0.9% Saline	316.66	CnC <500 mOsm/L	
TERLIPRESSIN ACETATE	700391 TERLIPRESINA SUN 1 MG SOLUCION INYECTABLE EFG	Sodium acetate trihydrate, sodium chloride, acetic acid	YES		Uncommon	3.7-4.2 [10]	TERLIPRESSIN ACETATE	2	10 mg/250 ml Dextrose 5%	183.54	CnC <500 mOsm/L	High
									2 mg/50 ml Dextrose 5%	183.54	CnC <500 mOsm/L	
									4 mg/100 ml Dextrose 5%	183.54	CnC <500 mOsm/L	
THIOPENTAL SODIUM	635573 TIOBARBITAL BRAUN 0.5 G	No	YES	-/ YES	Frecuency not reported	10-11 [10]	THIOPENTAL SODIUM	2	1 g/51 ml 0.9% Saline	452.29	CC <500 mOsm/L	High
TIGECYCLINE	653914 TYGACIL 50 MG POLVO PARA SOLUCION PARA PERFUSION	Lactose monohydrate, hydrochloric acid, sodium hydroxide			Common	NA	TIGECYCLINE	1	100 mg/110 ml 0.9% Saline	283.37	CC <500 mOsm/L	High
									50 mg/105 ml 0.9% Saline	296.05	CC <500 mOsm/L	
TIROFIBAN	701287 TIROFIBAN ALTAN 50 MICROGRAMOS/ML SOLUCION PARA PERFUSION EFG	Sodium chloride, sodium acetate trihydrate, acetic acid, sodium hydroxide			No reported	5.5-6.5 [10]	TIROFIBAN	1	12.5 mg/250 ml Intravenous Solution	310.11	CnC <500 mOsm/L	Low
TOBRAMYCIN	631226 TOBRAMICINA NORMON 100 mg/2 ml SOLUCION INYECTABLE EFG	Phenol, sodium metabisulfite, edetate disodium, sulfuric acid			No reported	3-6.5 [12]	TOBRAMYCIN SULFATE	2	100 mg/52 ml 0.9% Saline	304.88	CnC <500 mOsm/L	Low
	600924 TOBRAMICINA BRAUN 3 mg/ml SOLUCION	Sodium chloride, sulfuric acid			No reported		TOBRAMYCIN BASE	1	240 mg/80 ml Intravenous Solution	316.42	CC <500 mOsm/L	

	PARA PERFUSION INTRAVENOSA											
TRAMADOL	628354 TRAMADOL NORMON 100 MG/ 2 ML SOLUCIÓN INYECTABLE Y PARA PERFUSIÓN EFG	Sodium acetate			No reported	NA	TRAMADOL HYDROCHLORIDE	2	100 mg/52 ml 0.9% Saline	310.90	CnC <500 mOsm/L	Low
TRANEXAMIC ACID	700506 AMCHAFIBRIN 500 mg SOLUCION INYECTABLE	No			No reported	6.5-8 [11]	TRANEXAMIC ACID	1	500 mg/55 ml 0.9% Saline	339.64	CC <500 mOsm/L	Low
URAPIDIL	694413 URAPIDIL ACCORD 5 MG/ML SOLUCION INYECTABLE Y PARA PERFUSION EFG	Propylene glycol, sodium dihydrogen phosphate dihydrate, disodium phosphate dihydrate, hydrochloric acid, sodium hydroxide			No reported	5.5-6.5 [13]	URAPIDIL	1	250 mg/250 ml Dextrose 5%	280.58	CnC >500 mOsm/L	High
									250 mg/250 ml 0.9% Saline	312.58	CnC >500 mOsm/L	
VALPROIC ACID	656030 ACIDO VALPROICO ALTAN 400 mg POLVO Y DISOLVENTE PARA SOLUCION INYECTABLE EFG	No		YES/ YES	No reported	7.6 [11]	SODIUM VALPROATE	2	1200 mg/512 ml 0.9% Saline	330.94	CnC <500 mOsm/L	High
									400 mg/104 ml 0.9% Saline	344.36	CC <500 mOsm/L	
VANCOMYCIN	606390 VANCOMICINA SALA 1.000 MG POLVO PARA CONCENTRADO PARA SOLUCION PARA PERFUSION EFG	No		YES/ YES	Common	3.0-5.0 [11]	VANCOMYCIN HYDROCHLORIDE	2	1 g/120 ml 0.9% Saline	269.55	CC <500 mOsm/L	High
									1 g/270 ml 0.9% Saline	292.02	CC <500 mOsm/L	
VERTEPORFIN	909713 VISUDYNE 15 MG POLVO PARA SOLUCION PARA PERFUSION	Lactose monohydrate, egg phosphatidylglycerol, dimyristoyl-phosphatidylcholine, ascorbyl palmitate, butylated hydroxytoluene			Common	NA	VERTEPORFIN	1	15 mg/30 ml Dextrose 5%	278.70	CnC Inconclusive	High
VORICONAZOLE	709973 VORICONAZOL KERN PHARMA 200 MG POLVO PARA SOLUCION PARA PERFUSION EFG	Beta-cyclodextrin sodium, sodium chloride, hydrochloric acid		-/ YES	Common	4.4-5.5 [13]	VORICONAZOLE	1	280 mg/100 ml 0.9% Saline	231.22	CnC <500 mOsm/L	High
									420 mg/100 ml 0.9% Saline	191.82	CnC <500 mOsm/L	
									600 mg/250 ml 0.9% Saline	242.47	CnC <500 mOsm/L	
ZOLEDRONIC ACID	606291 ACIDO ZOLEDRONICO ALTAN 4 MG/100 ML SOLUCION PARA PERFUSION EFG	Mannitol, sodium citrate, hydrochloric acid, sodium hydroxide			Uncommon	6.0-7.0 [11]	ZOLEDRONIC ACID MONOHYDRATE	1	4 mg/100 ml Intravenous Solution	310.15	CnC <500 mOsm/L	High

In VC y Vesicant/ cytotoxicity columns, empty cells or “-“ refer to not reported.

\*Osmolarity calculated from the information provided by the US prescription drug index, which specifies the drug’s mOsmol/ml, including excipients [11]

\*\* Imported drug

Abbreviations:



VC: Vasoconstrictor.

IV: Intravenous.

CnC: Concentration not compared

CC: Concentration compared

n: number of particles formed by the dissociation of one molecule from each solute.

NA: Not available.

MU: Million units.

IU: International units.

Amp: Ampoule.