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Dialysis of Drugs

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Use Of This Guide

These guidelines are designed to provide extensive, easy-to-read information regarding the dialyzability of drugs. Numerous literature sources have been used in preparing the guidelines. For many drugs, including newly-approved medications, investigational agents and medications available in other countries, there have been no dialysis pharmacokinetic studies. In some cases, the available data may conflict. Conditions of dialysis used in published studies may not reflect current dialysis practice and technology. Variations in the duration of dialysis, blood and dialysate flow rates, dialysis membranes, and whether peritoneal dialysis is continuous or intermittent, will all affect drug removal. These guidelines distinguish between conventional hemodialysis and high permeability (high-flux) hemodialysis where such data are available. No information is provided on drug dialyzability with continuous renal replacement therapy (CRRT) or with plasmapheresis. For additional information on specific drugs, the reader should consult the primary literature.

Users of the following tables are referred to www.renalpharmacyconsultants.com for background and explanatory material to assist in the interpretation of the tabular data. The website provides specific information about factors that influence drug dialyzability and special considerations, such as CRRT, plasmapheresis and drugs of abuse. Users must be familiar with this information prior to using

the following tables. The website also includes a table presenting sieving coefficient data from in vitro and in vivo evaluations, which can be used to predict dosing requirements in CRRT, and a table regarding removal of drugs of abuse.

Key

- Yes** Indicates that dialysis enhances plasma clearance by 30% or more. Supplemental dosing may be required or dosing after dialysis should be considered.
- No** Indicates that dialysis does not have a clinically important effect on plasma clearance. Supplemental dosing is usually not required.
- U** Indicates that no published data exist but physicochemical characteristics of the drug suggest that significant drug removal is **unlikely** during dialysis.
- L** Indicates that no published data exist but physicochemical characteristics of the drug suggest that significant drug removal is **likely** during dialysis.
- ND** Indicates no data exist on drug dialyzability with this type of dialysis.
- NS** Indicates the type of membrane was not specified.

Note: In these tables, **conventional** hemodialysis is defined as the use of a dialysis membrane whose in vitro coefficient of ultrafiltration (K_{uf}) ≤ 8 mL/hour/mm Hg. Data also are placed in the conventional column if the literature does not specify the type of dialysis membrane employed. **High permeability** hemodialysis is defined as the use of a dialysis membrane whose K_{uf} > 8 mL/hour/mm Hg. In the tables, the K_{uf} of the membrane(s) used is included in parentheses.

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Abacavir	U	No (40)	ND
Abatacept	U	U	U
Abciximab	U	ND	U
Abiraterone	No (NS)	No (NS)	U
Acamprosate	ND	ND	ND
Acarbose	ND	ND	ND
Acebutolol (diacetolol)	Yes (NS)	L	ND
Acenocoumarol	U	U	U
Acetaminophen (paracetamol)	Yes (NS)	L	No
Acetazolamide	U	ND	No
Acetohexamide	U	ND	U
Acetophenazine	U	ND	U
Acetylcysteine	Yes (7.5)	ND	ND
Aciclovir (acyclovir)	Yes (NS)	L	No
Acid colloidal hydrocolloid	U	U	U
Acitretin	No (NS)	U	U
Acidinium bromide	U	U	U
Acrivastine	ND	ND	ND
Acyclovir (aciclovir)	Yes (NS)	L	No
Adalimumab	U	U	U
Adefovir	Yes (NS)	ND	ND
Adenosine	U	ND	U
Adrenaline (epinephrine)	ND	ND	ND
Aflibercept	ND	ND	ND
Adipiodone	ND	ND	ND
Agalsidase alfa	No (7.5)	No (10)	U
Agalsidase beta	U	U	U

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Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Agomelatine	ND	ND	ND
Albendazole	No (NS)	ND	U
Albinterferon alfa-2b	No (NS)	U	U
Albumin	U	ND	U
Albuterol (salbutamol)	No (NS)	ND	U
Alcaftadine	ND	ND	ND
Aldesleukin	ND	ND	ND
Alefacept	ND	ND	ND
Alemtuzumab	U	U	U
Alendronate	No (NS)	ND	ND
Alfacalcidol (1-alpha-hydroxy vitamin D3)	ND	ND	ND
Alfentanil	U	ND	U
Alfuzosin	U	U	U
Alginic acid	U	U	U
Alglucerase	U	U	U
Alimemazine (trimeprazine)	ND	ND	ND
Aliskiren	ND	ND	ND
Alitretanoin	ND	ND	ND
Allopurinol	Yes (NS)	L	ND
Almotriptan	ND	ND	ND
Alosetron	ND	ND	ND
Alpha tocopherol	ND	ND	ND
Alprazolam	No (NS)	ND	U
Alprostadil	U	No (11.1)	ND
Alteplase	U	ND	U
Altretamine	ND	ND	ND
Aluminum	ND	ND	No
Alvimopan	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Amantadine	No (NS)	ND	No
Ambenonium	ND	ND	ND
Ambrisentan	U	U	U
Amdinocillin	No (NS)	ND	No
Amifostine	ND	ND	ND
Amikacin	Yes (NS)	L	Yes
Amiloride	ND	ND	ND
Aminocaproic acid	Yes (NS)	ND	Yes
Aminoglutethimide	Yes (NS)	L	ND
Aminoguanidine (pimagedine)	Yes (NS)	ND	ND
Aminophylline	Yes (NS)	L	No
Aminosalicilic acid	Yes (NS)	L	ND
Amiodarone	No (NS)	U	No
Amisulpride	U	U	U
Amitriptyline	No (NS)	ND	No
Amlexanox	ND	ND	ND
Amlodipine	No (NS)	U	No
Ammonium chloride	ND	ND	ND
Amoxapine	U	U	U
Amoxicillin	Yes (NS)	L	No
Amphetamine	ND	ND	ND
Amphotericin B	No (NS)	No (10.1, 36)	No
Amphotericin B lipid complex	No (NS)	ND	U
Ampicillin	Yes (NS)	L	No
Amprenavir	U	ND	U
Amrinone	U	ND	No
Amsacrine (m-AMSA)	U	U	U
Anagrelide	ND	ND	ND

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Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Anakinra	No (NS)	ND	No
Anastrozole	ND	ND	ND
Ancestim	ND	ND	ND
Ancrod	ND	ND	ND
Anidulafungin	No (NS)	U	U
Anisindione	U	U	U
Anisoylated plasminogen streptokinase activator complex (Anistreplase)	U	ND	U
Anistreplase (anisoylated plasminogen streptokinase activator complex)	U	ND	U
Antihemophilic factor, (Factor VIII)	ND	ND	ND
Antithymocyte globulin	U	ND	U
Apixaban	ND	ND	ND
Apomorphine	U	U	U
Apraclonidine	ND	ND	ND
Aprepitant	No (NS)	U	U
Aprotinin	U	ND	U
Arbutamine	ND	ND	ND
Argatroban	U	No (10.7-36)	ND
Aripiprazole	U	U	U
Armodafinil	ND	ND	ND
Arsenic trioxide	No (NS)	ND	U
Artemether	U	U	U
Artemether/lumefantrine	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Articaine	ND	ND	ND
Ascorbic acid (sodium ascorbate, vitamin C)	Yes (5.5)	Yes (8.8)	Yes
Asenapine	U	U	U
Asparaginase	U	ND	U
Aspirin	Yes (NS)	L	Yes
Atazanavir	U	U	U
Atenolol	Yes (NS)	L	No
Atomoxetine	U	U	U
Atorvastatin	No (NS)	U	U
Atovaquone	U	ND	U
Atracurium	U	ND	U
Atropine	No (NS)	ND	ND
Auranofin	No (NS)	ND	ND
Avanafil	ND	ND	ND
Axitinib	ND	ND	ND
Azacitidine	ND	ND	ND
Azathioprine	Yes (NS)	L	ND
Azelastine	U	U	U
Azilsartan medoxomil	No (NS)	No (NS)	ND
Azithromycin	Y (NS)	L	No
Azlocillin	Yes (NS)	L	No
Aztreonam	Yes (NS)	L	No
Bacampicillin	Yes (NS)	L	No
Baclofen	ND	Yes (60)	ND
Balsalazide	U	U	U
Basiliximab	U	ND	U
Belimumab	ND	ND	ND
Benazepril (benazeprilat)	No (NS)	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Benazeprilat (benazepril)	No (NS)	ND	ND
Bendamustine	U	U	U
Bendroflumethiazide	No (NS)	ND	U
Benserazide	U	U	U
Benzhexol (trihexyphenidyl)	ND	ND	ND
Benzphetamine	ND	ND	ND
Benzquinamide	U	ND	ND
Benztropine	ND	ND	ND
Bepotastine besylate	ND	ND	ND
Bepridil	No (NS)	ND	U
Beractant	U	U	U
Besifloxacin	ND	ND	ND
Betahistine	ND	ND	ND
Betaine	ND	ND	ND
Betamethasone	ND	ND	ND
Betaxolol	No (NS)	ND	No
Bethanechol	ND	ND	ND
Bevacizumab	U	No (NS)	U
Bexarotene	U	U	U
Bezafibrate	No (NS)	U	No
Biapenem	Yes (NS)	Yes (NS)	ND
Bicalutamide	U	ND	U
Bimatoprost	ND	ND	ND
Biperiden	ND	ND	ND
Bisoprolol	No (NS)	ND	ND
Bivalirudin	Yes (NS)	ND	ND
Bleomycin	No (NS)	ND	No
Boceprevir	No (NS)	No (NS)	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Bortezomib	No (NS)	ND	ND
Bosentan	U	No (11.1)	U
Brentuximab vedotin	U	U	U
Bretylium	Yes (NS)	L	ND
Brinzolamide	ND	ND	ND
Bromazepam	ND	ND	ND
Bromfenac	No (NS)	U	U
Bromocriptine	U	ND	U
Brompheniramine	ND	ND	ND
Budesonide	U	U	U
Buflomedil	No (NS)	No (20)	U
Bumetanide	U	U	U
Buphenine (nylidrin)	ND	ND	ND
Bupivacaine	U	U	U
Buprenorphine	U	U	U
Bupropion	No (NS)	No (10)	No
Buserelin	ND	ND	ND
Buspiron	No (NS)	ND	ND
Busulfan	Yes (NS)	Yes (8.1)	ND
Butalbital	ND	ND	ND
Butoconazole	U	U	U
Butorphanol	U	ND	U
C1 esterase inhibitor	ND	ND	ND
Cabazitaxel	U	U	U
Cabergoline	ND	ND	ND
Caffeine	ND	ND	ND
Calcitonin	U	U	U
Calcitriol	No (4.2-5.3)	No (31)	U
Calcium carbonate	Y	Y	Y
Calcium folinate	No (NS)	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Calcium folinate (leucovorin)	ND	ND	ND
Calcium polystyrene sulfonate	U	U	U
Calcium sodium alginate	U	U	U
Calfactant	ND	ND	ND
Canakinumab	U	U	U
Candesartan	No (NS)	No (8.1)	ND
Capecitabine	ND	ND	ND
Capreomycin	Yes (NS)	L	ND
Captopril	Yes (NS)	L	No
Carbamazepine	No (NS, 5.5)	Yes (22, 55)	No
Carbenicillin	Yes (NS)	L	No
Carbidopa/levodopa	ND/U	ND/U	ND/U
Carbimazole	No (NS)	ND	No
Carbinoxamine	ND	ND	ND
Carboplatin	Yes (NS)	Yes (NS)	No
Carboprost	ND	ND	ND
Carfilzomib	No (NS)	No (NS)	U
Carglumic acid	ND	ND	ND
Carisoprodol	Yes (NS)	L	Yes
Carmustine	No (NS)	ND	ND
Carprofen	U	U	U
Carteolol	ND	ND	ND
Carumonam	Yes (NS)	L	ND
Carvedilol	No (NS)	U	U
Caspofungin	No (NS)	U	U
CCNU (lomustine)	No (NS)	ND	U
Cefaclor	Yes (NS)	L	Yes

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Cefadroxil	Yes (NS)	L	No
Cefalotin	Yes (NS)	L	No
Cefamandole	Yes (NS)	L	No
Cefazolin	Yes (6, 8)	Yes (8.1-60)	No
Cefdinir	ND	Yes (NS)	ND
Cefditoren	No (NS)	ND	ND
Cefepime	Yes (NS)	Yes (40, 60)	Yes
Cefixime	No (NS)	ND	No
Cefmenoxime	Yes (NS)	L	ND
Cefmetazole	Yes (NS)	L	No
Cefodizime	No (NS)	ND	No
Cefonicid	No (NS)	ND	No
Cefoperazone	No (NS)	ND	No
Ceforanide	Yes (NS)	L	No
Cefotaxime	Yes (NS)	L	No
Cefoxitin	Yes (NS)	L	No
Cefpirome	Yes (NS)	Yes (40)	No
Cefpodoxime	Yes (NS)	L	No
Cefprozil	Yes (NS)	L	ND
Cefradine	Yes (NS)	L	Yes
Cefroxadine	ND	ND	ND
Cefsulodin	Yes (NS)	L	Yes
Ceftaroline fosamil	Yes (NS)	Yes (NS)	L
Ceftazidime	Yes (NS)	L	Yes
Ceftibuten	Yes (NS)	L	ND
Ceftizoxime	Yes (NS)	L	No
Ceftobiprole	ND	ND	ND
Ceftriaxone	No (NS)	ND	No
Cefuroxime	Yes (NS)	L	No
Celecoxib	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Cephalexin	Yes (NS)	L	No
Cephalothin	Yes (NS)	L	No
Cephapirin	Yes (NS)	L	No
Cephazolin	Yes (6, 8)	Yes (8.1-60)	No
Cephradine	Yes (NS)	L	Yes
Certolizumab	U	U	U
Cetirizine	U	No (18.7-66.7)	U
Cetrorelix	ND	ND	ND
Cetuximab	No (NS)	U	U
Cevimeline	ND	ND	ND
Chloral hydrate	Yes (5.5)	L	ND
Chlorambucil	No (NS)	ND	No
Chloramphenicol	Yes (NS)	L	No
Chlordiazepoxide	No (NS)	U	U
Chlormethine (mechlorethamine, mustine)	U	U	U
Chloroprocaine	ND	ND	ND
Chloroquine	No (NS)	ND	No
Chlorothiazide	No (NS)	ND	U
Chlorphenamine (chlorpheniramine)	Yes (NS)	L	No
Chlorpheniramine (chlorphenamine)	Yes (NS)	L	No
Chlorpromazine	No (NS)	U	No
Chlorpropamide	No (NS)	ND	No
Chlorprothixene	U	ND	U
Chlorthalidone	No (NS)	ND	U
Chlorzoxazone	ND	ND	ND
Cholecalciferol (vitamin D3)	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Cholestyramine	U	U	U
Choriogonadotropin alfa (chorionic gonadotrophin)	U	U	U
Chorionic gonadotrophin (choriogonadotropin alfa)	U	U	U
Ciclesonide	U	U	U
Cidofovir	ND	Yes (60)	No
Cilastatin	Yes (NS)	L	ND
Cilazapril	Yes (NS)	L	ND
Cilostazol	U	U	U
Cimetidine	No (NS)	ND	No
Cinacalcet	No (NS)	U	No
Cinoxacin	No (NS)	ND	U
Ciprofloxacin	No (NS)	ND	No
Cisapride	No (NS)	U	U
Cisatracurium	U	ND	U
Cisplatin	No (NS)	Yes (64)	No
Citalopram	No (8)	No (40)	U
Citric acid	L	L	L
Cladribine	ND	ND	ND
Clarithromycin	ND	ND	ND
Clavulanic acid	Yes (NS)	L	Yes
Clemastine	U	U	U
Clevidipine	U	U	U
Clinafloxacin	No (6.4)	No (8.1, 8.8)	ND
Clindamycin	No (NS)	ND	No
Clobazam	No (4.2)	ND	ND
Clodronate	ND	Yes (8.1)	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Clofarabine	ND	ND	ND
Clofazimine	No (NS)	ND	No
Clofibrate	No (NS)	U	No
Clomiphene	ND	ND	ND
Clomipramine	U	U	U
Clonazepam	No (NS)	ND	U
Clonidine	No (NS)	ND	No
Clopidogrel	U	ND	U
Clorazepate	No (NS)	ND	U
Clotrimazole	U	U	U
Cloxacillin	No (NS)	ND	No
Clozapine	No (NS)	U	U
Cocaine	No (NS)	ND	U
Codeine/metabolites (morphine-3 and morphine-6 glucuronides, codeine-6 glucuronide)	No/Yes (NS)	ND	U
Colaspase	U	ND	U
Colchicine	No (NS)	ND	No
Colesevalam	U	U	U
Colestipol	U	U	U
Colistimethate	No (NS)	ND	No
Colistin (polymyxin B)	No (NS)	ND	No
Collagenase clostridium histolyticum	U	U	U
Conivaptan	U	U	U
Corifollitropin	ND	ND	ND
Cortisone	No (NS)	ND	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Cotrimoxazole (sulfamethoxazole/trimethoprim)	Yes (NS)/Yes (NS)	L/L	No/No
Crizotinib	U	U	U
Cromolyn sodium	U	U	U
Cyanocobalamin (vitamin B12)	No (NS)	No (40, 65)	ND
Cyclacillin	Yes (NS)	L	No
Cyclobenzaprine	U	U	U
Cyclophosphamide	Yes (6.4)	L	ND
Cycloserine	ND	Yes (30, 52)	ND
Cyclosporine	No (NS)	U	No
Cyproheptadine	ND	ND	ND
Cyproterone	ND	ND	ND
Cystadane	ND	ND	ND
Cysteamine	Yes (NS)	ND	No
Cytarabine (cytosine arabinoside)/Ara-U	ND/ND	Yes (NS)/Yes (ND)	No/ND
Cytosine arabinoside (cytarabine)/Ara-U	ND/ND	Yes (NS)/Yes (ND)	No/ND
Dabigatran	Yes (NS)	L	ND
Dacarbazine	ND	ND	ND
Daclizumab	U	ND	U
Dactinomycin	ND	ND	ND
Dalbavancin	No (NS)	ND	U
Dalfampridine (fampridine)	ND	L	ND
Dalteparin	U	ND	No
Danaparoid	ND	ND	ND
Danazol	ND	ND	ND
Dantrolene	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Dapsone	Yes (NS)	L	ND
Daptomycin	No (11)	Yes (59, 62)	No
Darbepoetin alfa	U	No (11.1-55)	No
Darifenacin	U	U	U
Darunavir	Yes (NS)	L	U
Dasatinib	U	U	U
Daunorubicin	ND	ND	ND
Decitabine	ND	ND	ND
Deferasirox	U	U	U
Deferiprone	ND	ND	ND
Deferoxamine (desferrioxamine)	Yes (NS)	L	ND
Deflazacort	No (NS)	ND	U
Degarelix	U	U	U
De-glymidodrine (midodrine)	ND	Yes (8.1)	ND
Delavirdine	U	ND	U
Demeclocycline	ND	ND	ND
Denileukin	U	U	U
Denosumab	U	U	U
Desferrioxamine (deferoxamine)	Yes (NS)	L	ND
Desipramine	No (NS)	ND	No
Desloratadine	No (NS)	ND	No
Desmopressin	ND	ND	ND
Desogestrel	U	U	U
Desvenlafaxine	No (NS)	U	U
Dexamethasone	No (NS)	ND	No
Dexamphetamine	ND	ND	ND
Dexchlorpheniramine	Yes (NS)	L	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Dexfenfluramine	ND	ND	ND
Dexlansoprazole	U	U	U
Dexmedetomidine	U	U	U
Dexmethylphenidate	ND	ND	ND
Dexpanthenol	ND	ND	ND
Dexrazoxane	ND	ND	ND
Dextran	U	U	U
Dextroamphetamine	ND	ND	ND
Dextropropoxyphene	No (NS)	ND	No
Dezocine	ND	ND	ND
Diacetolol (acebutolol)	Yes (NS)	L	ND
Diatrizoate	L	Yes (NS)	ND
Diazepam	No (NS)	ND	U
Diazoxide	Yes (NS)	L	Yes
Dibekacin	Yes (NS)	L	ND
Diclofenac	U	ND	U
Dicloxacillin	No (NS)	ND	No
Dicyclomine	ND	ND	ND
Dicycloverine	ND	ND	ND
Didanosine	No (7.9)	No (40)	No
Dideoxycytidine (zalcitabine)	ND	ND	ND
Dienogest	ND	ND	ND
Diethylpropion	ND	ND	ND
Diethylstilbesterol (fosfestrol)	No (NS)	ND	ND
Diflunisal	No (NS)	ND	U
Digitoxin	No (NS)	ND	No
Digoxin	No (NS)	ND	No
Digoxin immune Fab	No (NS)	U	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Dihydrocodeine	ND	ND	ND
Dihydroergotamine	ND	ND	ND
Diltiazem	No (NS)	ND	No
Dimenhydrinate	ND	ND	ND
Dimyristoyl lecithin	ND	ND	ND
Dinoprostone (prostaglandin E2)	ND	ND	ND
Diphenhydramine	U	ND	U
Diphenoxylate/atropine	ND	ND	ND
Dipyridamole	U	ND	ND
Dirithromycin	No (NS)	ND	No
Disopyramide	No (NS)	U	U
Disulfiram	U	U	U
Divalproex	No (NS)	ND	No
Dobutamine	No (NS)	ND	No
Docetaxel	No (NS)	U	No
Dofetilide	ND	ND	ND
Dolasetron	ND	ND	ND
Domperidone	U	U	U
Donepezil	U	ND	U
Dopamine	No (NS)	ND	U
Doripenem	Yes (NS)	Yes	ND
Dornase alfa	U	U	U
Dosulepin (dothiepin)	U	U	U
Dothiepin (dosulepin)	U	U	U
Doxacurium	No (NS)	ND	U
Doxapram	ND	ND	ND
Doxazosin	No (NS)	ND	No
Doxepin	No (NS)	ND	No
Doxercalciferol	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Doxorubicin	No (NS)	ND	ND
Doxorubicin, pegylated liposomal	ND	ND	ND
Doxycycline	No (NS)	ND	No
Doxylamine	ND	ND	ND
Dronabinol	U	ND	U
Dronedarone	U	U	U
Droperidol	U	ND	U
Drospirenone	U	U	U
Drotrecogin alfa	U	U	U
Duloxetine	U	U	U
Dutasteride	U	U	U
Dydrogesterone	ND	ND	ND
Ecallantide	ND	ND	ND
Eculizumab	U	U	U
Edetate calcium (EDTA)	Yes (NS)	L	Yes
Edrophonium	ND	ND	ND
EDTA (edetate calcium)	Yes (NS)	L	Yes
Efalizumab	U	U	U
Efavirenz	No (NS)	ND	No
Eformoterol (formoterol)	ND	ND	ND
Eletriptan	ND	ND	ND
Eltrombopag	U	U	U
Emtricitabine	Yes (NS)	ND	ND
Enalapril (enalaprilat)	Yes (NS)	L	Yes
Enalaprilat (enalapril)	Yes (NS)	L	Yes
Encainide	No (NS)	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Enfuvirtide	No (NS)	U	U
Enoxacin	No (NS)	ND	No
Enoxaparin	No (NS)	Yes (11.5-55)	No
Entacapone	U	U	U
Entecavir	No (NS)	ND	No
Ephedrine	ND	ND	ND
Epinephrine (adrenaline)	ND	ND	ND
Epirubicin	ND	ND	ND
Eplerenone	No (7)	ND	ND
Epoetin alfa	No (NS)	No (11.1-55)	No
Epoetin beta	U	U	U
Epoprostenol (prostacyclin)	ND	ND	ND
Eprosartan	U	No (60)	U
Eptacog alfa	U	U	U
Eptifibatide	ND	ND	ND
Ergocalciferol	ND	ND	ND
Ergometrine (oxytocin)	ND	ND	ND
Ergotamine	ND	ND	ND
Eribulin mesylate	ND	ND	ND
Erlotinib	U	No (NS)	U
Ertapenem	Yes (NS)	L	No
Erythromycin	No (NS)	ND	No
Escitalopram	ND	ND	ND
Eslicarbazine	Yes (NS)	L	ND
Esmolol	Yes (NS)	L	Yes
Esomeprazole	U	U	U
Estazolam	U	U	U
Estradiol	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Estramustine	ND	ND	ND
Estrogens, conjugated	ND	ND	ND
Estrone	No (NS)	ND	ND
Estropipate (piperazine estrone)	U	U	U
Eszopiclone	ND	ND	ND
Etanercept	No (NS)	U	U
Ethacrynic acid	No (NS)	U	U
Ethambutol	No (NS)	No (80)	U
Ethanol	Yes (NS)	L	ND
Ethanolamine oleate	ND	ND	ND
Ethchlorvynol	No (NS)	ND	No
Ethinyl estradiol	U	U	No
Ethinylestradiol	U	U	No
Ethionamide	U	No (30, 52)	U
Ethopropazine (prophenamine)	ND	ND	ND
Ethosuximide	Yes (NS)	L	ND
Ethotoin	ND	ND	ND
Ethinodiol diacetate	ND	ND	ND
Etidronate	ND	ND	ND
Etodolac	No (NS)	U	U
Etonogestrel	ND	ND	ND
Etoposide	No (NS)	No (NS)	No
Etoricoxib	No (NS)	U	U
Etravirine	No (NS)	U	U
Everolimus	ND	ND	ND
Exametazime	ND	ND	ND
Exemestane	U	U	U
Exenatide	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Ezetimibe	U	U	U
Ezogabine	ND	ND	ND
Factor VIII (antihemophilic factor)	ND	ND	ND
Famciclovir (penciclovir)	Yes (NS)	L	ND
Famotidine	No (NS)	ND	No
Fampridine (dalfampridine)	ND	L	ND
Febuxostat	U	U	U
Felbamate	ND	ND	ND
Felodipine	No (NS)	U	U
Fenfluramine	ND	ND	ND
Fenofibrate	No (NS)	U	U
Fenoldopam	U	ND	No
Fenoprofen	No (NS)	U	U
Fenoterol	ND	ND	ND
Fentanyl	U	No (10.1)	ND
Ferric carboxymaltose	U	U	U
Ferric gluconate	No (NS)	ND	U
Ferrous (iron) salts	U	ND	U
Ferumoxytol	No (NS)	ND	ND
Fesoterodine	ND	ND	ND
Fexofenadine	No (NS)	ND	U
Fibrinogen	ND	ND	ND
Fidaxomicin	U	U	U
Filgrastim	No (NS)	ND	U
Finasteride	U	ND	U
Fingolimod	ND	ND	ND
Flavoxate	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Flecainide	No (NS)	ND	U
Fleroxacin	U	No (8.1, 22)	No
Floctafenine	ND	ND	ND
Florbetapir F-18	ND	ND	ND
Floxuridine	ND	ND	ND
Flucloxacillin (floxacillin)	No (NS)	ND	ND
Fluconazole	Yes (NS)	L	Yes
Flucytosine	Yes (NS)	L	Yes
Fludarabine	ND	ND	ND
Fludrocortisone	ND	ND	ND
Flumazenil	ND	ND	ND
Flunitrazepam	ND	ND	ND
Fluorouracil/FBAL	No (NS)/ND	Yes (71)/Yes (40)	ND
Fluoxetine	No (NS)	U	No
Fluoxymesterone	ND	ND	ND
Flupenthixol	ND	ND	ND
Fluphenazine	U	ND	U
Flurazepam	No (NS)	ND	U
Flurbiprofen	U	U	No
Flutamide	No (NS)	ND	U
Fluticasone	U	U	U
Fluvastatin	No (NS)	U	U
Fluvoxamine	U	No (NS)	U
Folic acid	Yes (NS)	L	ND
Follitropin alfa	ND	ND	ND
Follitropin beta	ND	ND	ND
Fomepizole	Yes (NS)	L	ND
Fondaparinux	No (NS)	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Formoterol (eformoterol)	ND	ND	ND
Fosamprenavir	U	U	U
Fosaprepitant	No (NS)	U	U
Foscarnet	Yes (4.1)	Yes (18-60)	ND
Fosfestrol (diethylstilbesterol)	No (NS)	ND	ND
Fosfomycin	Yes (NS)	L	ND
Fosinopril (fosinoprilat)	No (NS)	ND	No
Fosinoprilat (fosinopril)	No (NS)	ND	No
Fosphenytoin	U	U	U
Fotemustine	ND	ND	ND
Frovatriptan	ND	ND	ND
Fruzemide	No (NS)	U	U
Fulvestrant	U	U	U
Furosemide	No (NS)	U	U
Fusidic acid	No (NS)	ND	No
Gabapentin	Yes (NS)	L	ND
Gadobenate	ND	ND	ND
Gadobutrol	Yes (5.5)	L	ND
Gadodiamide	Yes (NS)	L	No
Gadofosveset	ND	ND	ND
Gadolinium	Yes (NS)	ND	ND
Gadopentetate	Yes (NS)	L	ND
Gadoteric acid	No (NS)	U	U
Gadoteridol	ND	ND	ND
Gadoversetamide	ND	Yes (NS)	ND
Gadoxetate	Yes (NS)	L	ND
Galantamine	ND	ND	ND
Gallamine	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Gallium	ND	ND	ND
Gallopamil	U	U	U
Galsulfase	U	U	U
Ganciclovir	Yes (NS)	L	ND
Ganirelix	ND	ND	ND
Garenoxacin	No (NS)	ND	No
Gatifloxacin	ND	ND	ND
Geftinib	U	No (20)	U
Gemcitabine	Yes (7)	Yes (53, 58)	ND
Gemfibrozil	No (NS)	U	No
Gemifloxacin	No (NS)	ND	ND
Gemtuzumab	U	U	U
Gentamicin	Yes (NS)	Yes (13.2-60)	Yes
Gestodene	U	U	U
Gestrinone	ND	ND	ND
Glatiramer	ND	ND	ND
Glibenclamide (glyburide)	No (NS)	U	U
Gliclazide	U	U	U
Glimepiride	U	U	U
Glipizide	U	U	U
Glucagon	U	ND	U
Glucarpidase	ND	ND	ND
Glutethimide	No (NS)	ND	No
Glyburide (glibenclamide)	No (NS)	U	U
Glyceryl trinitrate	No (NS)	ND	No
Glycopyrrolate	ND	ND	ND
Gold sodium thiomalate	No (NS)	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Golimumab	U	U	U
Goserelin	ND	ND	ND
Granisetron	ND	ND	ND
Grepafloxacin	ND	ND	ND
Griseofulvin	ND	ND	ND
Guaifenesin	ND	ND	ND
Guanabenz	U	U	U
Guanadrel	ND	ND	ND
Guanethidine	ND	ND	ND
Guanfacine	No (NS)	ND	No
Guanidine	ND	ND	ND
H1N1 Vaccine	ND	ND	ND
Halofantrine	ND	ND	ND
Haloperidol	No (NS)	U	No
Heparin	No (NS)	ND	No
Heroin	U	ND	U
Hexamine (metenamine is mandelic acid salt)	ND	ND	ND
Hexobarbital (hexobarbitone)	No (NS)	ND	U
Hexobarbitone (hexobarbital)	No (NS)	ND	U
Hirudin	No (4.3-6.5)	Yes (20-90)	ND
Human growth hormone	U	U	U
Hydralazine	No (NS)	ND	No
Hydrochlorothiazide	No (NS)	ND	U
Hydrocodone	ND	ND	ND
Hydrocortisone	U	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Hydromorphone/ hydromorphone-3- glucuronide	No/Yes (7.5)	ND/L	U
Hydroxocobalamin	U	No (40, 65)	ND
Hydroxycarbamide (hydroxyurea)	No (NS)	ND	U
Hydroxychloroquine	ND	ND	ND
Hydroxyurea (hydroxycarbamide)	No (NS)	ND	U
Hydroxyzine	No (NS)	U	No
Ibandronate	ND	Yes (8.1)	ND
Ibritumomab	U	U	U
Ibuprofen	No (NS)	U	U
Ibutilide	ND	ND	ND
Icatibant	ND	ND	ND
Icosapent ethyl	U	U	U
Idarubicin	U	U	U
Idebenone	U	U	U
Idursulfase	U	U	U
Ifosfamide	Yes (1.6)	L	ND
Iloperidone	U	U	U
Iloprost	ND	ND	ND
Imatinib	No (NS)	U	U
Imidapril (imidaprilat)	No (NS)	U	U
Imidaprilat (imidapril)	No (NS)	U	U
Imiglucerase	U	U	U
Imipenem	Yes (NS)	L	Yes
Imipramine	No (NS)	U	No
Immune globulin (immunoglobulin, IVIg)	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Immunoglobulin (immune globulin, IVIg)	U	U	U
IVIg (immune globulin (immunoglobulin))	U	U	U
Indacaterol	U	U	U
Indapamide	No (NS)	ND	U
Indinavir	U	No (40)	ND
Indomethacin	No (NS)	U	U
Infliximab	U	U	U
Ingenol mebutate	ND	ND	ND
Insulin	No (NS)	ND	No
Insulin aspart	U	ND	U
Insulin detemir	No (NS)	U	ND
Insulin glargine	U	ND	U
Insulin glulisine	U	ND	ND
Insulin lispro	U	ND	U
Interferons	No (NS)	Yes (20-33)	No
Iobenguane	No (NS)	ND	ND
Iodipamide	ND	ND	ND
Iodixanol	Yes (3.1, 4.2)	L	ND
Ioflupane I-123	ND	ND	ND
Iohexol	Yes (NS)	Yes (15.5)	ND
Iomeprol	Yes (6.8)	L	Yes
Iopamidol	Yes (4.8)	L	Yes
Iopromide	Yes (5.5-6.8)	Yes (8.1-62)	ND
Iotrolan	Yes (NS)	L	ND
Ioversol	Yes (6.3)	L	ND
Ioxaglic acid	L	Yes (15.5)	ND
Ioxilan	Yes (NS)	L	ND
Ioxitalamic acid	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Ipilimumab	U	U	U
Irbesartan	No (NS)	ND	ND
Irinotecan/SN-38	U/U	No (8.5)/No (8.5)	U/U
Iron dextran	U	No (8.1-10.1)	U
Iron polymaltose complex	U	U	U
Iron saccharate (sucrose)	U	No (11.1-55)	U
Iron sorbitol-citric acid complex	ND	ND	ND
Iron sucrose (saccharate)	U	No (11.1-55)	U
Isocarboxazid	ND	ND	ND
Isoniazid	No (NS)	No (80)	No
Isoprenaline (Isoproterenol)	ND	ND	ND
Isoproterenol (Isoprenaline)	ND	ND	ND
Isosorbide dinitrate	No (NS)	ND	No
Isosorbide mononitrate	Yes (NS)	L	No
Isotretinoin	U	U	U
Isradipine	No (NS)	U	No
Itraconazole	No (NS)	No (65)	U
Ivabradine	ND	ND	ND
Ivacafator	ND	ND	ND
Ivermectin	ND	ND	ND
Ixabepilone	ND	ND	ND
Kanamycin	Yes (NS)	L	Yes
Ketamine	No (NS)	ND	U
Ketoconazole	No (NS)	ND	No
Ketoprofen	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Ketorolac	U	U	U
Ketotifen	ND	ND	ND
L-deprenyl (selegiline)	ND	ND	ND
L-tryptophan	U	No (8.1-40)	ND
Labetolol	No (NS)	ND	No
Lacosamide	L	Yes (NS)	U
Lactulose	U	U	U
Lamivudine	No (NS)	No (11.4)	No
Lamotrigine	No (NS)	ND	U
Lanreotide	ND	ND	ND
Lansoprazole	No (NS)	U	U
Lanthanum carbonate	No (NS)	U	U
Lapatinib	U	U	U
Laronidase	U	U	U
Lead/CaNa2EDTA	ND	Yes (85)	ND
Leflunomide	No (NS)	No (8.1)	No
Lenalidomide	Yes (NS)	ND	ND
Lenograstim	No (NS)	ND	U
Lepirudin	No (4.3-6.2)	Yes (20-90)	ND
Lercanidipine	ND	ND	ND
Letrozole	ND	ND	ND
Leucovorin (folinic acid)	ND	ND	ND
Leuprolide	ND	ND	ND
Leuprorelin	ND	ND	ND
Levamisole	ND	ND	ND
Levetiracetam	Yes (NS)	L	ND
Levobupivacaine	U	ND	U
Levocarnitine	Yes (NS)	L	ND
Levocetirizine	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Levodopa	U	U	U
Levofloxacin	U	No (>69)	No
Levoleucovorin	ND	ND	ND
Levomethadyl	U	U	U
Levonorgestrel	U	ND	U
Levorphanol	ND	ND	ND
Levosimendan	No (6.4)	U	U
Levothyroxine	U	ND	U
Lidocaine	No (NS)	ND	U
Lignocaine	No (NS)	ND	U
Linagliptin	ND	ND	ND
Lincomycin	No (NS)	ND	No
Linezolid	Yes (NS)	Yes (9.3-65)	ND
Liothyronine	ND	ND	ND
Liraglutide	U	U	U
Lisdexamfetamine	ND	ND	ND
Lisinopril	Yes (NS)	L	ND
Lithium	Yes (NS)	Yes (40, 70)	Yes
Lomefloxacin	No (NS)	ND	No
Lomustine (CCNU)	No (NS)	ND	U
Loperamide	ND	ND	ND
Lopinavir	U	No (NS)	U
Loracarbef	Yes (NS)	L	ND
Loratadine	No (NS)	U	No
Lorazepam	No (NS)	ND	U
Lorcaserin	No (NS)	No (NS)	U
Losartan	No (NS)	No (10.1-52)	No
Loteprednol etabonate	U	U	U
Lovastatin	U	U	U
Loxapine	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Lubiprostone	U	U	U
Lucinactant	U	U	U
Lumefantrine	U	U	U
Lumiracoxib	ND	ND	ND
Lurasidone	U	U	U
Lysergide (LSD)	U	ND	U
Macrogol 3350	U	U	U
Magnesium oxide	L	L	L
Mangafodipir	ND	ND	ND
Mannitol	Yes (NS)	L	Yes
Maprotiline	No (NS)	U	U
Maraviroc	ND	ND	ND
Marijuana (THC)	U	ND	U
Mazindol	ND	ND	ND
MDMA (Ecstasy)	ND	ND	ND
Mebendazole	No (NS)	U	U
Mebeverine	ND	ND	ND
Mecamylamine	ND	ND	ND
Mecasermin	ND	ND	ND
Mechlorethamine (chlormethine, mustine)	U	U	U
Meclofenamate	U	ND	U
Medroxyprogesterone	U	U	U
Mefenamic acid	No (NS)	U	U
Mefloquine	U	ND	U
Megestrol acetate	ND	ND	ND
Melatonin/6- sulfatoxymelatonin	Yes (NS)	L	ND
Meloxicam	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Melphalan	No (NS)	ND	ND
Memantine	ND	ND	ND
Menadiol	ND	ND	ND
Meningococcal vaccine	ND	ND	ND
Menotropins	ND	ND	ND
Mepenzolate	ND	ND	ND
Meperidine/normeperidine (pethidine)	No (NS)/ND	No (8.1)/Yes (8.1)	U/ND
Meprobamate	Yes (NS)	L	Yes
Mercaptopurine	Yes (NS)	L	ND
Meropenem	Yes (NS)	L	ND
Mesalamine (5-ASA, mesalazine)	Yes (5.5)	ND	U
Mesalazine (5-ASA, mesalamine)	Yes (5.5)	ND	U
Mescaline (peyote)	U	ND	U
Mesna	ND	ND	ND
Mesoridazine	U	ND	U
Mesterolone	ND	ND	ND
Mestranol	U	U	U
Mesuximide	ND	ND	ND
Metaproterenol (orciprenaline)	ND	ND	ND
Metaxalone	ND	ND	ND
Metformin	Yes (NS)	L	ND
Methadone	No (NS)	U	No
Methaqualone	No (NS)	ND	No
Methenamine	ND	ND	ND
Methicillin	No (NS)	U	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Methimazole	No (NS)	ND	No
Methocarbamol	ND	ND	ND
Methohexital	U	U	U
Methotrexate	Yes (NS)	Yes (20, 60)	Yes
Methotrimeprazine	ND	ND	ND
Methoxsalen	ND	ND	ND
Methylphenobarbital	Yes (NS)	Yes (60)	Yes
Methoxy polyethylene glycol-epoetin beta	U	U	U
Methscopolamine	ND	ND	ND
Methsuximide	ND	ND	ND
Methyl aminolevulinate HCl	U	U	U
Methyldopa	Yes (NS)	L	Yes
Methylergonovine	ND	ND	ND
Methylnaltrexone	ND	ND	ND
Methylphenidate	U	ND	U
Methylprednisolone	Yes (NS)	L	ND
Methysergide	ND	ND	ND
Metoclopramide	No (NS)	U	No
Metolazone	No (NS)	U	U
Metoprolol	Yes (NS)	L	ND
Metronidazole	Yes (NS)	Yes (56)	No
Mexiletine	Yes (NS)	L	No
Mezlocillin	Yes (NS)	L	No
Mianserin	No (NS)	ND	ND
Micafungin	U	U	U
Miconazole	No (NS)	U	No
Midazolam	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Midodrine (deglymidodrine)	ND	Yes (8.1)	ND
Mifepristone	U	U	U
Miglitol	ND	ND	ND
Miglustat	ND	ND	ND
Milnacipran	U	U	U
Milrinone	ND	ND	ND
Minocycline	No (NS)	ND	No
Minoxidil	Yes (NS)	L	Yes
Mirabegron	U	U	U
Mirtazapine	No (7.5)	ND	U
Misoprostol	U	ND	U
Mithramycin (plicamycin)	ND	ND	ND
Mitomycin	ND	ND	ND
Mitotane	ND	ND	ND
Mitoxantrone	No (NS)	U	No
Mivacurium	ND	ND	ND
Moclobemide	ND	ND	ND
Modafinil	ND	ND	ND
Moexipril	ND	ND	ND
Molindone	U	ND	U
Mometasone	ND	ND	ND
Montelukast	U	ND	U
Moricizine	U	ND	U
Moroctocog alfa	U	U	U
Morphine	ND	Yes (8.1, 10.1)	No
Moxifloxacin	ND	ND	No
Moxonidine	ND	ND	ND
Muromonab-CD3	U	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Mustine (chlormethine, mechlorethamine)	U	U	U
Mycophenolate	No (NS)	U	No
Nabilone	ND	ND	ND
Nabumetone	No (NS)	U	U
Nadolol	Yes (NS)	L	ND
Nadroparin	ND	ND	ND
Nafarelin	ND	ND	ND
Nafcillin	No (NS)	ND	No
Nalbuphine	ND	ND	ND
Nalidixic acid	U	U	U
Nalmefene	No (4.1-5.9)	U	U
Naloxone	ND	ND	ND
Naltrexone	No (NS)	U	U
Nandrolone	ND	ND	ND
Naproxen	No (NS)	U	U
Naratriptan	ND	ND	ND
Natalizumab	U	U	U
Nateglinide/M1 metabolite	U/Yes (NS)	U/Yes (NS)	U/ND
Nebivolol	U	U	U
Nedocromil	ND	ND	ND
Nefazodone	U	U	U
Nefopam	No (NS)	ND	ND
Nelarabine	U	U	U
Nelfinavir	U	No (71)	No
Neomycin	Yes (NS)	L	Yes
Nesiritide	U	U	U
Netilmicin	Yes (NS)	L	Yes
Nevirapine	ND	Yes (40)	Yes

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Niacin (vitamin B3, nicotinic acid)	ND	ND	ND
Niacinamide (nicotinamide)	ND	ND	ND
Nicardipine	No (NS)	U	U
Nicorandil	ND	ND	ND
Nicotinamide (niacinamide)	ND	ND	ND
Nicotine	ND	ND	No
Nicotinic acid (niacin, vitamin B3)	ND	ND	ND
Nifedipine	No (NS)	U	No
Nilotinib	No (NS)	U	U
Nilutamide	ND	ND	ND
Nimodipine	No (NS)	U	No
Nisoldipine	No (NS)	U	No
Nitazoxanide	U	U	U
Nitisinone	ND	ND	ND
Nitrazepam	ND	ND	ND
Nitrendipine	No (NS)	U	U
Nitrofurantoin	Yes (NS)	L	ND
Nitroglycerin	No (NS)	ND	No
Nitroprusside	Yes (NS)	L	Yes
Nizatidine	No (NS)	ND	No
Nomegestrol/oestradiol	ND	ND	NS
Nomifensine	ND	ND	ND
Nonacog alfa	U	U	U
Noradrenaline (norepinephrine)	ND	ND	ND
Norelgestromin	ND	ND	ND

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Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Norepinephrine (noradrenaline)	ND	ND	ND
Norethindrone	ND	ND	No
Norethisterone	ND	ND	No
Norfloxacin	No (NS)	ND	U
Norgestimate	U	U	U
Norgestrel	ND	ND	ND
Nortriptyline	No (NS)	U	No
Nylidrin (buphenine)	ND	ND	ND
Nystatin	U	U	U
Octocog alfa	U	U	U
Octreotide	Yes (NS)	L	ND
Oestradiol	No (NS)	ND	ND
Oestriol	ND	ND	ND
Oestrogens, conjugated	ND	ND	ND
Ofatumumab	U	U	U
Ofloxacin	Yes (6.0)	Yes (8.5)	No
Olanzapine	No (NS)	U	No
Olmesartan	No (NS)	No (NS)	U
Olsalazine	U	ND	U
Omalizumab	U	U	U
Omapatrilat	No (NS)	ND	ND
Omega-3-acid ethyl esters	ND	ND	ND
Omeprazole	U	ND	U
Ondansetron	U	ND	U
Oprelvekin	U	U	U
Orbofiban	Yes (NS)	L	ND
Orlistat	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Ornidazole	Yes (NS)	L	No
Ornipressin	U	U	U
Orciprenaline (metaproterenol)	ND	ND	ND
Oritavancin	No (NS)	No (NS)	ND
Orphenadrine	ND	ND	ND
Oseltamivir	Yes (2.8-4.0)	L	Yes
Oxacillin	No (NS)	U	No
Oxaliplatin	ND	Yes (71, NS)	ND
Oxandrolone	U	U	U
Oxaprozin	No (NS)	ND	U
Oxazepam	No (NS)	ND	U
Oxcarbazepine	ND	ND	ND
Oxpentifylline (pentoxifylline)	U	ND	ND
Oxprenolol	U	U	U
Oxtriphylline	Yes (NS)	L	No
Oxybutynin	ND	ND	ND
Oxycodone	ND	Yes (48)	ND
Oxymetholone	ND	ND	ND
Oxymorphone	U	U	U
Oxytocin (ergometrine)	ND	ND	ND
Paclitaxel	No (NS)	U	No
Palifermin	U	ND	ND
Paliperidone	ND	ND	ND
Palivizumab	U	U	U
Palonosetron	ND	ND	ND
Pamidronate	Yes (6.4)	L	ND
Pancreatic extract	U	U	U
Pancuronium	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Panitumumab	U	U	U
Pantoprazole	No (5.1)	U	U
Papaverine	U	U	U
Para-aminosalicylate	U	No (30, 60)	U
Paracetamol (acetaminophen)	Yes (NS)	L	No
Parecoxib	No (NS)	U	U
Paricalcitol	No (5.5)	ND	ND
Paromomycin	ND	ND	ND
Paroxetine	No (NS)	U	U
Pazopanib	U	U	U
Pefloxacin	No (NS)	ND	No
Pegademase	U	U	U
Pegaspargase	U	ND	U
Pegfilgrastim	No (NS)	U	U
Peginesatide acetate	U	U	U
Peginterferon alfa-2a	U	No (8.7-33)	U
Peginterferon alfa-2b	U	No (8.7)/Yes (20-33)	U
Pegloticase	U	U	U
Pegvisomant	U	U	U
Pemetrexed	ND	ND	ND
Pemoline	Yes (NS)	L	No
Penbutolol	No (NS)	ND	No
Penciclovir (famciclovir)	Yes (NS)	L	ND
Penicillamine	Yes (NS)	L	ND
Penicillin	Yes (NS)	L	No
Pentamidine	No (NS)	ND	No
Pentastarch	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Pentazocine	Yes (NS)	L	ND
Pentobarbital	No (NS)	ND	U
Pentosan polysulfate	ND	ND	ND
Pentostatin	ND	ND	ND
Pentoxifylline (oxpentifylline)	U	U	U
Perflexane	ND	ND	ND
Perflutren	ND	ND	ND
Pergolide	U	U	U
Perhexiline	U	U	U
Pericyazine	ND	ND	ND
Perindopril (perindoprilat)	Yes (NS)	L	ND
Perindoprilat (perindopril)	Yes (NS)	L	ND
Perphenazine	U	U	U
Pertuzumab	ND	ND	ND
Pethidine/norpethidine (meperidine)	No (NS)/ND	No (8.1)/Yes (8.1)	U/ND
Phenacetin	ND	ND	ND
Phenazopyridine	ND	ND	ND
Phencyclidine (PCP)	U	ND	U
Phendimetrazine	ND	ND	ND
Phenelzine	ND	ND	ND
Phenindione	ND	ND	ND
Pheniramine	ND	ND	ND
Phenobarbital	Yes (NS)	Yes (60)	Yes
Phenobarbitone	Yes (NS)	Yes (60)	Yes
Phenoxybenzamine	ND	ND	ND
Phentermine	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Phentolamine	ND	ND	ND
Phenylbutazone	No (NS)	U	U
Phenyltoloxamine	ND	ND	ND
Phenytoin	No (NS)	Yes (36)	No
Phytomenadione (phytonadione, vitamin K)	ND	ND	ND
Phytonadione (phytomenadione, vitamin K)	ND	ND	ND
Pilocarpine	ND	ND	ND
Pimagedine (aminoguanidine)	Yes (NS)	ND	ND
Pimozide	ND	ND	ND
Pinaverium	U	U	U
Pindolol	ND	ND	ND
Pioglitazone	No (NS)	U	U
Piperacillin	Yes (NS)	L	No
Piperazine oestrone (estropitate)	ND	ND	ND
Pipotiazine	ND	ND	ND
Piroxicam	U	U	U
Pitavastatin	U	U	U
Pivmecillinam	No (NS)	ND	U
Pizotifen (pizotyline)	U	U	U
Pizotyline (pizotifen)	U	U	U
Plerixafor	ND	L	ND
Plicamycin (mithramycin)	ND	ND	ND
Pneumococcal vaccine	ND	ND	ND
Polidocanol	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Polyethylene glycol	U	U	U
Polymyxin B (colistin)	No (NS)	ND	No
Polythiazide	No (NS)	ND	No
Poractant alfa	ND	ND	ND
Porfimer	No (NS)	U	U
Posaconazole	No (NS)	U	U
Pralatrexate	ND	ND	ND
Pralidoxime	ND	ND	ND
Pramipexole	No (NS)	U	U
Pramlintide	ND	ND	ND
Prasugrel	U	U	U
Pravastatin	No (5.3)	ND	ND
Prazepam	No (NS)	ND	U
Praziquantel	No (NS)	ND	ND
Prazosin	No (NS)	U	No
Prednisolone	U	No (NS)	U
Prednisone	No (NS)	ND	No
Pregabalin	Yes (NS)	L	ND
Primaquine	No (NS)	U	U
Primidone	Yes (NS)	L	ND
Probenecid	U	U	U
Probucol	No (NS)	ND	No
Procainamide/N-acetyl procainamide (NAPA)	Yes (NS)/ Yes (NS)	L/L	No/No
Procarbazine	ND	ND	ND
Prochlorperazine	U	U	U
Procyclidine	ND	ND	ND
Profenamine	ND	ND	ND
Progesterone	U	U	U
Proguanil	No (NS)	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Promazine	U	ND	U
Promethazine	No (NS)	U	U
Propafenone	No (NS)	U	No
Propantheline	ND	ND	ND
Prophenamine (ethopropazine)	ND	ND	ND
Propofol	U	U	U
Propoxyphene	No (NS)	ND	No
Propranolol	No (NS)	U	No
Propylthiouracil	No (NS)	ND	ND
Prostacyclin (epoprostenol)	ND	ND	ND
Prostaglandin E2(dinoprostone)	ND	ND	ND
Protriptyline	No (NS)	U	No
Prucalopride	U	U	U
Pseudoephedrine	No (NS)	U	U
Psilocybin	ND	ND	ND
Pyrantel	ND	ND	ND
Pyrazinamide	Yes (NS)	Yes (80)	No
Pyridostigmine	ND	ND	ND
Pyridoxine	ND	Yes (36)	ND
Pyrilamine	ND	ND	ND
Pyrimethamine	ND	ND	ND
Quazepam	U	U	U
Quetiapine	ND	ND	ND
Quinagolide	U	U	U
Quinapril (quinaprilat)	No (NS)	U	No
Quinaprilat (quinapril)	No (NS)	U	No
Quinidine	No (NS)	U	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Quinine	No (NS)	U	No
Quinupristin/ dalfopristin	ND	ND	No/No
Rabeprazole	U	U	U
Raloxifene	U	U	U
Raltegravir	Yes (NS)	L	ND
Raltitrexed	ND	ND	ND
Ramelteon	ND	ND	ND
Ramipril (ramiprilat)	No (NS)	ND	ND
Ramiprilat (ramipril)	No (NS)	ND	ND
Ranibizumab	U	U	U
Ranitidine	No (NS)	Yes (NS)	No
Ranolazine	ND	ND	ND
Rapacuronium	ND	ND	ND
Rasagiline	ND	ND	ND
Rasburicase	U	U	U
Reboxetine	U	U	U
Recainam	No (NS)	ND	U
Remifentanil	U	U	U
Repaglinide	U	No (60)	U
Reserpine	No (NS)	U	No
Retepase	ND	ND	ND
Reviparin	No (NS)	ND	U
Rho(D) immune globulin	U	U	U
Ribavirin	No (NS)	U	U
Rifabutin	U	No (40)	U
Rifaldazine (rifampicin, rifampin)	No (NS)	No (80)	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Rifampicin (rifaldazine, rifampin)	No (NS)	No (80)	No
Rifampin (rifampicin, rifaldazine)	No (NS)	No (80)	No
Rifapentine	U	U	U
Rifaximin	U	U	U
Rilmenidine	No (NS)	ND	U
Rilonacept	U	U	U
Rilpivirine	U	U	U
Riluzole	U	U	U
Rimantadine	No (NS)	U	U
Risedronate	ND	ND	ND
Risperidone	ND	ND	ND
Ritodrine	Yes (NS)	L	Yes
Ritonavir	Yes (NS)	No (40)	No
Rituximab	No (NS)	U	U
Rivaroxaban	ND	ND	ND
Rivastigmine	ND	ND	ND
Rizatriptan	ND	ND	ND
Rocuronium	ND	ND	ND
Roflumilast	U	U	U
Romidepsin	U	U	U
Romiplostim	ND	ND	ND
Ropinirole	U	U	U
Ropivacaine	U	U	U
Rosiglitazone	No (NS)	U	No
Rosuvastatin	No (NS)	ND	U
Rotigotine	U	U	U
Roxithromycin	ND	ND	No
Ruboxistaurin	U	U	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Rufinamide	No (NS)	ND	U
Rufloxacin	ND	ND	ND
Ruxolitinib	No	No	U
Sacrosidase	ND	ND	ND
Salbutamol (albuterol)	No (NS)	ND	U
Salcatonin	U	U	U
Salmeterol	ND	ND	ND
Salsalate	Yes (NS)	L	No
Sapropterin	ND	ND	ND
Saquinavir	U	No (40)	U
Sargramostim	ND	ND	ND
Saxagliptin	Yes (NS)	Yes (NS)	ND
Secobarbital	No (NS)	ND	No
Secretin	ND	ND	ND
Selegiline (l-deprenyl)	ND	ND	ND
Sermorelin (GRF 1-29)	ND	ND	ND
Sertindole	No (NS)	U	U
Sertraline	No (NS)	U	U
Sevelamer	U	U	U
Sevoflurane	ND	ND	ND
Sibutramine	U	U	U
Sildenafil	U	No (65)	U
Sildenafil	U	U	U
Silver sulfadiazine	No (NS)	ND	U
Simethicone	U	U	U
Simvastatin	U	U	U
Sirolimus	No (NS)	U	U
Sisomicin	Yes (NS)	L	ND
Sitagliptin	No (NS)	ND	ND
Sitaxsentan	U	U	U

2013 Dialysis of Drugs

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Sodium ascorbate (ascorbic acid, vitamin C)	Yes (5.5)	Yes (8.8)	Yes
Sodium aurothiomalate	U	U	U
Sodium calcium edetate	Yes (NS)	L	Yes
Sodium chondroitin sulfate	ND	ND	ND
Sodium clodronate	ND	Yes (8.1)	No
Sodium cromoglycate	U	U	U
Sodium diatrizoate	L	Yes (NS)	ND
Sodium fusidate	No (NS)	ND	No
Sodium nitroprusside	Yes (NS)	L	Yes
Sodium oxybate	ND	ND	ND
Sodium picosulfate	ND	ND	ND
Sodium polystyrene sulfonate	U	U	U
Sodium thiosulfate	ND	Yes (NS)	ND
Sodium valproate	No (NS)	Yes (62)	No
Solifenacin	U	U	U
Somatropin	No (NS)	U	U
Sorafenib	No (NS)	Yes (NS)	U
Sotalol	Yes (NS)	L	ND
Sparfloxacin	ND	ND	ND
Spectinomycin	Yes (NS)	L	Yes
Spinosad	U	U	U
Spiramycin	ND	ND	ND
Spirapril (spiraprilat)	U	ND	U
Spiraprilat (spirapril)	U	ND	U
Spirolactone	U	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Stanozolol	ND	ND	ND
Stavudine	Yes (NS)	Yes (NS)	ND
Streptokinase	U	U	U
Streptomycin	Yes (NS)	L	Yes
Streptozocin	ND	ND	ND
Sucralfate	No (NS)	ND	No
Sufentanil	U	U	U
Sulbactam	Yes (NS)	L	No
Sulfadiazine	ND	ND	ND
Sulfadoxine	ND	ND	ND
Sulfamethoxazole	Yes (NS)	L	No
Sulfapyridine	ND	ND	ND
Sulfasalazine	U	U	U
Sulfipyrazone	No (NS)	U	U
Sulfisoxazole	Yes (NS)	L	Yes
Sulindac	No (NS)	ND	U
Sulthiame	ND	ND	ND
Sumatriptan	ND	ND	ND
Sunitinib	U	No (NS)	U
Tacrine	ND	ND	ND
Tacrolimus	No (NS)	U	U
Tadalafil	No (NS)	U	U
Tafloprost	ND	ND	ND
Taliglucerase alfa	ND	ND	ND
Talinolol	No (NS)	ND	ND
Tamoxifen	ND	ND	ND
Tamsulosin	U	U	U
Tapentadol	U	U	U
Tazobactam	Yes (NS)	L	No
Tefibazumab	No (NS)	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Tegafur	Yes (NS)	L	ND
Tegaserod	No (NS)	U	U
Teicoplanin	No (NS)	ND	No
Telaprevir	ND	ND	ND
Telavancin	ND	L	U
Telbivudine	No (NS)	ND	ND
Telithromycin	ND	ND	ND
Telmisartan	No (NS)	ND	U
Temazepam	No (NS)	U	U
Temocillin	Yes (NS)	L	No
Temozolomide	ND	ND	ND
Temsirolimus	No (NS)	U	U
Tenecteplase	U	U	U
Teniposide	U	ND	U
Tenofovir	ND	Yes (50)	ND
Terazosin	No (NS)	U	No
Terbinafine	U	U	U
Terbutaline	ND	ND	ND
Teriparatide	ND	ND	ND
Terlipressin	ND	ND	ND
Tesamorelin acetate	U	U	U
Testolactone	ND	ND	ND
Testosterone	No (NS)	U	U
Tetrabenazine	ND	ND	ND
Tetracycline	No (NS)	ND	No
Thalidomide	U	No (65)	U
Thallos chloride	ND	ND	ND
Theophylline	Yes (NS)	L	No
Thiabendazole	ND	ND	ND
Thiamazole	No (NS)	ND	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Thiamine (vitamin B1)	No (NS)	ND	U
Thiethylperazine	ND	ND	ND
Thioguanine	ND	ND	ND
Thiopropazine	ND	ND	ND
Thioridazine	U	U	U
Thiotepa	ND	ND	ND
Thiothixene	U	ND	U
Thrombin alfa	U	U	U
Thyrotropin alfa	U	U	U
Thyroxine	U	ND	U
Tiagabine	No (NS)	U	U
Tiaprofenic acid	U	U	U
Tibolone	ND	ND	ND
Ticagrelor	U	U	U
Ticarcillin	Yes (NS)	L	No
Ticlopidine	U	U	U
Tigecycline	No (NS)	ND	U
Tilidine	No (NS)	ND	U
Tiludronate	U	ND	U
Timolol	No (NS)	ND	No
Tinidazole	Yes (NS)	L	ND
Tinzaparin	U	ND	ND
Tiotropium	ND	ND	ND
Tipranavir	U	U	U
Tirofiban	Yes (NS)	L	ND
Tizanidine	ND	ND	ND
Tobramycin	Yes (NS)	L	Yes
Tocainide	Yes (NS)	L	ND
Tocilizumab	ND	ND	ND
Tocopherol (vitamin E)	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Tolazamide	U	ND	U
Tolbutamide	No (NS)	ND	U
Tolcapone	U	U	U
Tolmetin	U	U	U
Tolterodine	U	U	U
Tolvaptan	U	U	U
Topiramate	Yes (NS)	L	ND
Topotecan	Yes (8.0)	L	ND
Toremifene	U	U	U
Toremide	No (NS)	U	U
Tositumomab	U	U	U
Tosufloxacin	No (NS)	ND	ND
Trabectedin	No (NS)	ND	ND
Tramadol	No (NS)	Yes (50)	ND
Tramazoline	ND	ND	ND
Trandolapril (trandolaprilat)	Yes (NS)	L	ND
Trandolaprilat (trandolapril)	Yes (NS)	L	ND
Tranexamic acid	ND	ND	ND
Tranlycypromine	ND	ND	ND
Trapidil	ND	ND	ND
Trastuzumab	U	U	U
Trazodone	U	ND	U
Treprostinil	U	U	U
Tretinoin	ND	ND	ND
Triamterene	ND	ND	ND
Triazolam	No (NS)	ND	U
Trientine	ND	ND	ND
Trifluoperazine	No (NS)	U	No

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Triflupromazine	U	ND	U
Trihexyphenidyl (benzhexol)	ND	ND	ND
Trimebutine	ND	ND	ND
Trimeprazine (alimemazine)	ND	ND	ND
Trimethobenzamide	ND	ND	ND
Trimethoprim	Yes (NS)	L	No
Trimetrexate	U	U	U
Trimipramine	U	U	U
Tripolidine	ND	ND	ND
Triptorelin	ND	ND	ND
Trisodium citrate	ND	ND	ND
Tropisetron	U	U	U
Trospium	ND	ND	ND
Trovaflaxacin	No (NS)	ND	ND
Tryptophan	U	No (8.1-40)	ND
Ulipristal	ND	ND	ND
Urofollitropin	ND	ND	ND
Ursodeoxycholic acid (ursodiol)	U	U	U
Ursodiol (ursodeoxycholic acid)	U	U	U
Ustekinumab	ND	ND	ND
Valacyclovir	Yes (NS)	L	No
Valdecoxib	U	U	U
Valganciclovir	Yes (NS)	ND	ND
Valproic acid	No (NS)	Yes (62)	No
Valrubicin	ND	ND	ND
Valsartan	No (NS)	ND	U

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Vancomycin	No (NS)	Yes (10.1-60)	Yes
Vandetanib	ND	ND	ND
Vardenafil	ND	ND	ND
Varenicline	Yes (NS)	ND	ND
Vecuronium	U	ND	U
Velaglucerase	U	U	U
Velosulin	U	U	U
Vemurafenib	U	U	U
Venlafaxine	No (NS)	U	U
Verapamil	No (NS)	ND	No
Verteporfin	ND	ND	ND
Vigabatrin	Yes (NS)	L	ND
Vilazodone	U	U	U
Vildagliptin	ND	ND	ND
Vinblastine	ND	ND	ND
Vincristine	ND	ND	ND
Vinflunine	ND	ND	ND
Vinorelbine	ND	ND	ND
Vismodegib	ND	ND	ND
Vitamin B1 (thiamine)	No (NS)	ND	U
Vitamin B12 (cyanocobalamin)	No (NS)	No (40, 65)	ND
Vitamin C (ascorbic acid, sodium ascorbate)	Yes (5.5)	Yes (8.8)	Yes
Vitamin D3 (cholecalciferol)	U	U	U
Vitamin E (tocopherol)	ND	ND	ND
Vitamin K (phytonadione, phytomenadione)	ND	ND	ND

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Voriconazole	No (NS)	No (NS)	No
Vorinostat	ND	ND	ND
Warfarin	No (NS)	ND	No
Zafirlukast	U	U	U
Zalcitabine (dideoxycytidine)	ND	ND	ND
Zaleplon	ND	ND	ND
Zanamivir	ND	ND	ND
Zidovudine/GZDV (azothymidine, AZT, ZDV)	No (NS)/Yes (NS)	ND/L	No/Yes
Zileuton	U	No (8.3, 10.1)	U
Zinc	ND	ND	ND
Ziprasidone	No (NS)	U	U
Zoledronic acid	ND	ND	ND
Zolmitriptan	U	U	U
Zolpidem	No (NS)	U	U
Zonisamide	Yes (NS)	ND	ND
Zopiclone	No (NS)	ND	U
Zuclopenthixol	ND	ND	ND

Drugs of Abuse

Drug	HEMODIALYSIS		Peritoneal Dialysis
	Conventional	High Permeability	
Amphetamine	ND	ND	ND
Cocaine	No (NS)	ND	U
Ethanol	Yes (NS)	L	ND
Heroin	U	ND	U
Lysergide (LSD)	U	ND	U
Marijuana (THC)	U	ND	U
MDMA (Ecstasy)	ND	ND	ND
Mescaline (peyote)	U	ND	U
Nicotine	ND	ND	No
Phencyclidine (PCP)	U	ND	U
Psilocybin	ND	ND	ND

