

Dialysis of Drugs
Source Documents
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Note: Year indicates date of Dialysis of Drugs edition.

Abacavir

Izzedine H, et al. Pharmacokinetics of abacavir in HIV-1-infected patients with impaired renal function. *Nephron* 2001; 89:62-67. (2002)

Abatacept

Orencia prescribing information (2007)

Abiraterone acetate

Zytiga prescribing information (2012)

Acenocoumarol

Sintrom prescribing information (2005)

Acetylcysteine

Soldini D, et al. Pharmacokinetics of N-acetylcysteine following repeated intravenous infusion in haemodialysis patients. *Eur J Clin Pharmacol* 2005; 60:859-864. (2006)

Acid colloidal hydrocolloid

Flamigel package insert (2012)

Acitretin

Stuck AE, et al. Pharmacokinetics of acitretin and its 13-cis metabolite in patients on haemodialysis. *Br J Clin Pharmacol.* 1989; 27:301-4. (2004)

Aclidinium bromide

Tudorza PI (2013)

Adalimumab

Humira prescribing information (2005)

Adefovir

Hepsra prescribing information (2004)

Professional services information from company (2004)

Aflibercept

Eylea package information (2013)

Agalsidase alfa and beta (see galactosidase)

Replagal product information from FDA web site (2006)

Kosch M, et al. Enzyme replacement therapy administered during hemodialysis in patients with Fabry disease. *Kidney Int* 2004; 66:1279-1282. (2005)

Pastores GM, et al. Safety and pharmacokinetics of agalsidase alfa in patients with Fabry disease and end-stage renal disease. *Nephrol Dial Transplant* 2007; 22:1920-1925. (2008)

Fabrazyme prescribing information (2008)

Replagal product information from European web site (2008)

Agomelatine

Valdoxan PI (2012)

Albinterferon Alfa-2b

Serra DB, et al. Single-Dose Pharmacokinetics, Safety, and Tolerability of Albinterferon

Alfa-2b in Subjects with End-Stage Renal Disease on Hemodialysis Compared to Those in Matched Healthy Volunteers. *Antimicrob Agents Chemother.* 2011;55:473-7. (2012)

Alcaftadine

Lastacaft PI (2011)

Aldesleukin

Proleukin PI

Alefcept

Amevive prescribing information (no data) (2006)

Alfacalcidol

Alfentanil

Alfenta PI

Alemtuzumab

Campath PI (2004)

Alfuzosin

Uroxatral prescribing info (2011)

Alginic acid

Flaminal PI (2012)

Alglucerase

Ceredase PI

Altretanoin

Toctino PI (Canada 2010, US 2011)

Alprostadil

Unpublished manuscript reviewed by CJ. (2001)

Aluminum

Yue CS, et al. Aluminum toxicokinetics in peritoneal dialysis patients. *Clin Toxicol.* 2011;49:659-663. (2012)

Ambrisentan

Letairis prescribing information (2008)

Amikacin

Stass H, et al. Pharmacokinetics and tolerability of BAY41-6551 in subjects with chronic kidney disease. *J Aerosol Med Pulm Drug Deliv* 2011, 24, 191-9. (2012)

Luyt CE, et al. Pharmacokinetics and tolerability of amikacin administered as BAY41-6551 aerosol in mechanically ventilated patients with gram-negative pneumonia and acute renal failure. *J Aerosol Med Pulm Drug Deliv.* 2011 Aug;24(4):183-90. (2013)

Aminophylline

Included previously published data for theophylline.(2002)

Amiodarone

Micromedex drug evaluation (2010)

Amisulpride

Micromedex drug evaluation (2003)

Amlodipine

Kungys G, et al. Pharmacokinetics of amlodipine in hypertensive patients undergoing haemodialysis. *Eur J Clin Pharmacol.* 2003; 59:291-5. (2004)

Exforge HCT package insert (2012)

Sevikar PI (2012)

Twynsta PI (2012)

Amoxipine

Micromedex drug evaluation (2010)

Amphotericin B

Gussak HM, et al. Administration and clearance of amphotericin B during high-efficiency or high-efficiency/high-flux dialysis. *Am J Kidney Dis.* (in press). (2002)

Amphotericin B lipid complex

Abelcet package insert (2007)

Ampicillin/sulbactam

Blum RA, et al. Pharmacokinetics of ampicillin and sulbactam coadministered to subjects with normal and abnormal renal function and with end-stage renal disease on hemodialysis. *Antimicrob Agents Chemother* 1989; 33, 1470-6. (2013)

Amprenavir

Agenerase package insert (2000)

Amsacrine

Micromedex drug evaluation. (2002)

Anakinra

Kineret package insert. (2002)

Yang B-B, et al. Pharmacokinetics of anakinra in subjects with different levels of renal function. *Clin Pharmacol Ther.* 2003; 74:85-94. (2004)

Anidulafungin

Dowell JA, et al. Anidulafungin does not require dosage adjustment in subjects with varying degrees of hepatic or renal impairment. *J Clin Pharmacol* 2007; 47:461. (2008)

Eraxis prescribing information (2010)

Burkhardt O, et al. Extended daily dialysis does not affect the pharmacokinetics of anidulafungin. *Int J Antimicrob Agents.* 2009;34:282-283. (2011)

Anisindione

DrugDex drug evaluation (2003)

Apixaban

Eliquis PI (2013)

Apomorphine

Micromedex drug evaluation. (2002)

van der Geest R, et al. Pharmacokinetics, enantiomer interconversion, and metabolism of R-apomorphine in patients with idiopathic Parkinson's disease. *Clin Neuropharmacol* 1998; 21:159. (2005)

Aprepitant

Emend package insert (2004)

Bergman AJ, et al. Effect of impaired renal function and haemodialysis on the pharmacokinetics of aprepitant. *Clin Pharmacokinet* 2005; 44:637-647. (2006)

Ara (U)

See entry for cytosine arabinoside. (2013)

Argatroban

de Denus S, et al. Decreased argatroban clearance unaffected by hemodialysis in anasarca. *Ann Pharmacother* 2003; 37:1237. (2005)

Murray PT, et al. A prospective comparison of three argatroban treatment regimens during hemodialysis in end-stage renal disease. *Kidney Int* 2004; 66:2446-2453. (2006)

Aripiprazole

- Abilify PI (2011)
Micromedex-Drugdex drug evaluation (2004)
- Asenapine
Saphris PI (2011)
- Arsenic trioxide
Fesmire FM, et al. Survival following massive arsenic ingestion. Am J Emerg Med 1988; 6:602-606. (2002)
Levin-Scherz JK, Acute arsenic ingestion. Ann Emerg Med 1987; 16:702-704. (2002)
- Artemether
Micromedex-Drugdex drug evaluation (2004)
- Ascorbic acid
Wang S, et al. Plasma ascorbic acid in patients undergoing chronic haemodialysis. Eur J Clin Pharmacol. 1999; 55:527-532. (2002)
Tsapas G, et al. Effect of peritoneal dialysis on plasma levels of ascorbic acid. Nephron 1983; 33:34-37. (2002)
Shah GM, et al. Ascorbic acid supplements in patients receiving chronic peritoneal dialysis. Am J Kidney Dis. 1991; 18:84-90. (2002)
- Asparaginase Erwinia Chrysanthem
Erwinase package information (2013)
- Astemizole
Delete from database due to product withdrawal. (2002)
- Atazanavir
Reyataz prescribing information (2005)
- Atomoxetine
Strattera prescribing information (2004)
- Atorvastatin
Lins RL, et al. Pharmacokinetics of atorvastatin and its metabolites after single and multiple dosing in hypercholesterolaemic haemodialysis patients. Nephrol Dial Transplant. 2003; 18:967-76. (2004)
Lipitor prescribing information (2010)
- Attapulgite
Micromedex drug evaluation. (2002)
- Aurothioglucose
PDR entry for Solganal. (2002)
- Avanafil
Stendra PI (2013)
- Axitinib
Inlyta package information (2013)
- Azacitidine
Vidaza PI (2011)
- Azelastine
Astelin product information from Micromedex. (2002)
Astelin information in PDR (2003)
- Azilsartan medoxomil
Edarbi prescribing information (2012)
- Azithromycin

- Kent JR, et al. Azithromycin: an assessment of its pharmacokinetics and therapeutic potential in CAPD. *Perit Dial Int* 2001; 21:372-377. (2002)
- Heintz BH, Matzke GR, Dager WE. Antimicrobial dosing concepts and recommendations for critically ill adult patients receiving continuous renal replacement therapy or intermittent hemodialysis. *Pharmacotherapy* 2009, 29: 562-77 (review) (2011)
- Baclofen
Brvar M, et al. Haemodialysis clearance of baclofen. *Eur J Clin Pharmacol* 2007; 63:1143-46. (2008)
- Balsalazide
Colazal package insert (2001)
- Belimumab
Benlysta prescribing information (2012)
- Bendamustine
Treanda prescribing information (2009)
- Bendroflumethiazide
Micromedex (2008)
- Benserazide
Micromedex drug evaluation. (2002)
- Bepotastine besylate
Bepreve PI (2011)
- Beractant
Survanta information in PDR (2003)
Survanta prescribing information
- Besifloxacin
Besivance PI (2011)
- Betaine (see cystadane) (2008)
- Bevacizumab
Avastin prescribing information (2005)
Garnier-Viougeat, et al. Pharmacokinetics of bevacizumab in haemodialysis. *Nephrol Dial Transplant* 2007; 22:975. (2008)
- Bexarotene
Targretin package insert (2001)
- Bezafibrate
Micromedex drug evaluation (2010)
- Biapenem
Nagashima S, et al. Pharmacokinetics of a parenteral carbapenem, biapenem, in patients with end-stage renal disease and influence of haemodialysis. *J Antimicrob Chemother* 2000; 46:839-842. (2002)
- Bimatoprost
Lumigan PI (2011)
- Bisoprolol
PDR entry for Zebeta. (2002)
- Bivalirudin
Angiomax package insert. (2002)
- Boceprevir
Victrelis prescribing information (2012)

Bortezomib

Leal TB, et al. Dose-escalating and pharmacological study of bortezomib in adult cancer patients with impaired renal function: a National Cancer Institute Organ Dysfunction Working Group Study. *Cancer Chemother Pharmacol* 2011; DOI 10.1007/s00280-011-1637-5 (2012)

Bosentan

Tracleer package insert. (2002)

Liefeldt L, et al. Treatment of secondary pulmonary hypertension with bosentan and its pharmacokinetic monitoring in ESRD. *Am J Kidney Dis* 2004; 43:923. (2005)

Brentuximab vedotin

Adcetris prescribing information (2012)

Brinzolamide

Azarca prescribing information. (2012)

Bromfenac

Micromedex drug evaluation (2010)

Budesonide

Pulmicort package insert. (2002)

Bumetanide

Micromedex (2008)

Bupivacaine

Micromedex (2004)

Buprenorphine

Micromedex drug evaluaton (2003)

Bupropion

Worrall SP, et al. Pharmacokinetics of bupropion and its metabolites in haemodialysis patients who smoke. *Nephron Clin Prac* 2004; 97:c83-c89. (2005)

Busulfan

Stein J, et al. Accidental busulfan overdose: enhanced drug clearance with hemodialysis in a child with Wiskott-Aldrich syndrome. *Bone Marrow Transplant* 2001; 27:551-553. (2002)

Ullery LL, et al. Busulfan clearance in renal failure and hemodialysis. *Bone Marrow Transplantation* 2000; 25:201-203. (2001)

Butoconazole

Gynazole-1 prescribing information (2008)

C1esterase inhibitor (human)

Berinert prescribing information. (2012)

Cabazitaxel

Jevtana PI (2011)

Caffeine

Cafnea package insert (2012)

Calcitonin

Miacalcin package insert (2001)

Calcitriol

Ash SR, et al. Lack of removal of calcitriol during hemodialysis procedures. *J Am Soc Nephrol* 1997; 8:1587-91. (2001)

Calcium polystyrene sulfonate

- Martindale (Micromedex) (2002)
- Calcium sodium alginate
- Flaminal PI (2012)
- CaNa2EDTA/lead
- Roberts DM, et al. Lead mobilization study and the clearance of intravenous CaNa2EDTA in a patient with end-stage renal failure on hemodialysis. *J Clin Pharmacol* 2012, 52, 110-3. (2013)
- Canakinumab
- Ilaris prescribing information (2010)
- Candesartan
- Pfister M, et al. Pharmacokinetics and haemodynamics of candesartan cilexetil in hypertensive patients on regular haemodialysis. *Br J Clin Pharmacol*. 1999; 47:645-51. (2001)
- Carbamazepine
- Schuerer DJE, et al. High-efficiency dialysis for carbamazepine overdose. *Clin Toxicol* 2000; 38:321. (2007)
- Koh KH, et al. High-flux haemodialysis treatment as treatment for carbamezepine intoxication. *Med J Malaysia* 2006; 61:109. (2007)
- Prabaher MR, et al. Successful treatment of carbamazepine poisoning with hemodialysis: a case report and review of the literature. *Hemodial Int* 2011, 15, 407-11. (2013)
- Harder JL, et al. Carbamazepine and the active epoxide metabolite are effectively cleared by hemodialysis followed by continuous venovenous hemodialysis in an acute overdose. *Hemodial Int* 2011, 15, 412-15. (2013)
- Carbimazole
- Used data previously published for methimazole. (2002)
- Carboplatin
- Heijns JB, et al. Continuous ambulatory peritoneal dialysis: pharmacokinetics and clinical outcome of paclitaxel and carboplatin treatment. *Cancer Chemother Pharmacol*. Jan 19, 2008 e-pub. (2009)
- Oguri T, et al. Pharmacokinetic analysis of carboplatin in patients with cancer who are undergoing hemodialysis. *Cancer Chemother Pharmacol* 2010, 66, 813-7. (2012)
- Hiraike M, et al. Pharmacokinetics of carboplatin in a hemodialysis patient with small-cell lung cancer. *Cancer Chemother Pharmacol* 2012, 69, 845-8. (2013)
- Carfilzomib
- Kyprolis PI (2013)
- Carglumic acid
- Carbaglu PI (2011)
- Carnitine
- Now referred to as levocarnitine in database. (2002)
- Carprofen
- Micromedex drug evaluation (2010)
- Carvedilol
- Coreg prescribing information (2010)
- Caspofungin
- Candidas package insert. (2002)
- Cefazolin

- Sowinski KM, et al. Cefazolin dialytic clearance by high-efficiency and high-flux hemodialyzers. Am J Kidney Dis 2001; 37:766-776. (2002)
- Maynor LM, et al. An in vivo-in vitro study of cefepime and cefazolin dialytic clearnace during high-flux hemodialysis. Pharmacotherapy 2008; 28:977-983. (2010)

Cefdinir

- Hishida A, et al. Pharmacokinetic study of an oral cephalosporin, cefdinir, in hemodialysis patients. Antimicrob Agents Chemother. 1998; 42:1718-1724. (2001)

Cefditoren

- Spectracef package insert. (2002)
- ICAAC abstract (2000)- unpublished, but provided by manufacturer (2002)

Cefepime

- Schmaldienst S, et al. Multiple-dose pharmacokinetics of cefipime in long-term hemodialysis with high-flux membranes. Eur J Clin Pharmacol. 2000; 56:61-64. (2001)
- Maynor LM, et al. An in vivo-in vitro study of cefepime and cefazolin dialytic clearnace during high-flux hemodialysis. Pharmacotherapy 2008; 28:977-983. (2010)

Ceftaroline fosamil

- Teflaro prescribing information (2012)

Ceftazidime

- Kim K, Hwang YH, Ro H, et al. Pharmacokinetic profiles of ceftazidime after intravenous administration in patients undergoing automated peritoneal dialysis. Antimicrob Agents Chemother. 2011;55:2523-7. Epub 2011 Mar 14. (2012, no change)

Celecoxib

- Celebrex prescribing information (2010)

Cerivastatin

- Delete from database due to product withdrawal. (2002)

Certolizumab

- Cimzia prescribing information (2009)

Cetirizine

- Noiri E, et al. Pharmacokinetics of cetirizine in chronic hemodialysis patients: a multiple-dose study. Nephron 2001; 89:101-104. (2002)

Cetuximab

- Erbilux package insert (2005)

- Inauen R, et al. Feasibility of using cetuximab and bevacizumab in a patient with colorectal cancer and terminal renal failure. Oncology 2007; 72:209-210. (2010)

Chlormethine (see mechlorethamine) (2008)

Chloral hydrate

- Stalker NE, et al. Acute massive chloral hydrate intoxication treated with hemodialysis: a clinical pharmacokinetic analysis. J Clin Pharmacol 1978; 18:136. (2005)

- Buur T, et al. Pharmacokinetics of chloral hydrate poisoning treated with hemodialysis and hemoperfusion. Acta Med Scand 1988; 223:269-74. (2005)

Chlordiazepoxide

- Micromedex drug evaluation (2010)

Chlorothiazide

- Micromedex drug evaluation. (2002)

Chlorpromazine

- Micromedex drug evaluation (2010)

- Cholestyramine
 Micromedex drug evaluation (2001)
- Choline theophyllinate
 Used data previously published for theophylline. (2002)
- Choriogonadotropin
 Novarel package insert. (2008)
- Ciclesonide
 Micromedex drug evaluation (2006)
- Cilostazol
 Pletal prescribing information (2011)
- Cinacalcet
 Sensipar prescribing information (2005)
 Padhi D. Study abstract supplied by Amgen (2005)
 Padhi D, et al. No effect of renal function or dialysis on pharmacokinetics of cinacalcet (Sensipar/Mimpara). *Clin Pharmacokinet* 2005; 44:509-516. (2006)
- Ciprofloxacin
 Yeung SM, et al. Pharmacokinetics of oral ciprofloxacin in continuous cycling peritoneal dialysis. *Perit Dial Int* 2004; 24:447-453. (2006)
- Cisapride
 Micromedex drug evaluation (2010)
- Cisplatin
 Hirai K, et al. Kinetics of plasma platinum in a hemodialysis patient receiving repeated doses of cisplatin. *Oncol Rep.* 2000; 7:1243-5. (2003)
 Rebibou JM, et al. Combined chemotherapy and radiotherapy for esophageal carcinoma in a hemodialyzed patient. *Nephron* 1996; 74:611-612. (2003)
 Tomita M, et al. Pharmacokinetics of paclitaxel and cisplatin in a hemodialysis patient with recurrent ovarian cancer. *Anti-Cancer Drugs* 2001; 12:485-487. (2003)
 Watanabe R, et al. Feasibility of combination chemotherapy with cisplatin and etoposide for haemodialysis patients with lung cancer. *Br J Cancer*. 2003; 88:25-30. (2004)
 Sebestyan J, et al. Cisplatin pharmacokinetics in a child receiving peritoneal dialysis. *Pediatr Nephrol* 2010, 25: 1185-9. (2011)
 Matsumoto K. Pharmacokinetics of cisplatin and methotrexate after M-VAC chemotherapy for advanced urothelial cancer in hemodialysis patients. *In J Urol* 2008, 15, 949-50. (2011)
 Marnitz S, et al. Simultaneous chemoradiation in a patient with recurrent cervical cancer undergoing hemodialysis. *Strahlentherapie und Onkologie* 2011, 187, 831-4. (2013)
 Pouliquen A-L, et al. Optimizsticular cancer patient with acute renal failure. *J Incol Pharm Pract* 2009, 17, 265-9. (2013)
- Citalopram
 Spigset O, et al. Citalopram pharmacokinetics in patients with chronic renal failure and the effect of haemodialysis. *Eur J Clin Pharmacol* 2000; 56:699-703. (2002)
- Citric acid
 Prepopik PI (2013)
- Clavulanic acid
 Augmentin prescribing information (2002)

Watson ID, et al. Pharmacokinetics of clavulanic acid-potentiated ticarcillin in renal failure. Ther Drug Mon 1987; 9:139-47. (2002)

Clemastine

Micromedex drug evaluation (2010)

Clevidipine

Cleviprex prescribing information (2009)

Clnafloxacin

Randinitis EJ, et al. Clinafloxacin pharmacokinetics in subjects with various degrees of renal function. Antimicrob Agents Chemother 2001; 45:2536-2542. (2002)

Clobazam

Roberts GW. Clobazam and N-desmethylclobazam serum concentrations in endstage renal failure and hemodialysis. Ann Pharmacother 1994; 28:966-7. (2004)
Onfi package information (2013)

Clodronate

Ala-Houhala I, et al. Pharmacokinetics of clodronate in haemodialysis patients. Nephrol Dial Transplant. 1999; 14:699-705. (2001)

Clofarabine

Listed in Dialysis of Drugs US 2010. Clofar package insert. (2011)

Clofibrate

Micromedex drug evaluation (2010)

Clomiphene

Clomiphene citrate package insert. (2002)

Clomipramine

Micromedex drug evaluation (2010)

Clotrimazole

Micromedex drug evaluation (2001)

Clozapine

Clozaril prescribing information (2010)

Jacob A. Therapeutic drug monitoring of clozapine in a hemodialyzed smoking patient with schizophrenia. Ther Drug Monit 2009, 31, 281-2. (2011)

Codeine

Molanaei H. Influence of the CYP2D6 polymorphism and hemodialysis on codeine disposition in patients with end-stage renal disease. Eur J Clin Pharmacol 2010, 66, 269-73. (2011)

Colaspase

Leunase package insert (MIMS) (2002)

Colesevelam

Welchol package insert (2001)

Colestipol

PDR entry for Colestid. (2002)

Colfosceril

Micromedex drug evaluation (2003)

Colistin

The Use of Antibiotics (4th ed) Kucers & Bennett

Collagenase Clostridium histolyticum

Xiaflex PI (2011)

Conivaptan

Vaprisol prescribing information (2007)

Corifollitropin

Elonva package insert (2012)

Crizotinib

Xalkori PI (2013)

Cromolyn sodium

Micromedex (2007)

Cyanocobalamin (see hydroxocobalamin)

Cyclobenzaprine

Flexeril package insert (2001)

Cyclophosphamide

Galletti PM, et al. Hemodialysis in cancer chemotherapy. *Trans ASAIO*. 1996; 12:20. (2003)

McCune JS, et al. Cyclophosphamide disposition in an anephric child. *Pediatr Blood Cancer* 2006; 46:99-104. (2007)

Cycloserine

Malone RS, et al. The effect of hemodialysis on cycloserine, ethionamide, para-aminosalicylate, and clofazimine. *Chest* 1999; 116:984-990. (2001)

Cyclosporine

Neoral prescribing information (2010)

Cysteamine

Besouw M, et al. Pharmacokinetics of cysteamine in a cystinosis patient treated with hemodialysis. *Pediatr Nephrol* 2011, 26, 639-40 (2012)

Cytosine arabinoside (cytarabine)

Poschl JMB, et al. Chemotherapy with cytosine arabinoside in a child with Burkitt's lymphoma on maintenance hemodialysis and hemofiltration. *Ann Hematol*. 1993; 67:37-39. (2002)

Radeski D, et al. Effective clearance of Ara-U the major metabolite of cytosine arabinoside (Ara-C) by hemodialysis in a patient with lymphoma and end-stage renal failure. *Cancer Chemother Pharmacol*. 2011 Apr;67(4):765-8. (2013)

Dabigatran

Stangier J, et al. Influence of renal impairment on the pharmacokinetics and pharmacodynamics of oral dabigatran etexilate: an open-label, parallel-group, single-centre study. *Clin Pharmacokinet* 2011, 49, 259-68. (2011)

Dalbavancin

Marbury T, et al. Pharmacokinetics of dalbavancin in patients with renal or hepatic impairment. *J Clin Pharmacol* 2009; 49:465-476. (2010)

Dalfampridine

Ampyra PI

Dalteparin

Schmid P, et al. Prospective observational cohort study of bioaccumulation of dalteparin at a prophylactic dose in patients with peritoneal dialysis. *J Thromb Haemost* 2010, 8, 850-2. (2011)

Dapsone

Neuvonen PJ, et al. Acute dapsone intoxication: clinical findings and effect of oral charcoal and haemodialysis on dapsone elimination. *Acta Med Scan* 1983; 214:215-20. (2006)

Daptomycin

Cubicin package insert (2010)

Heintz BH, Matzke GR, Dager WE. Antimicrobial dosing concepts and recommendations for critically ill adult patients receiving continuous renal replacement therapy or intermittent hemodialysis. *Pharmacotherapy* 2009, 29: 562-77 (review) (2011)

Salama NN, et al. Intradialytic administration of daptomycin in end-stage renal disease patients on hemodialysis. *Clin J Am Soc Nephrol* 2009, 4, 1190-4. (2011)

Salama NN, et al. Single-dose daptomycin pharmacokinetics in chronic haemodialysis patients. *Nephrol Dial Transplant* 2010, 25, 1279-84. (2011)

Khadzhynov D, et al. Plasma and peritoneal dialysate levels during daptomycin therapy for peritonitis. *Am J Kidney Dis* 2009, 53, 911-2. (2011)

Goedecke VA, et al. Pharmacokinetics and dialysate levels of daptomycin given intravenously in a peritoneal dialysis patient. *Scand J Inf Dis.* 2009;41:155-157.(2011)

Cardone KE, et al. Pharmacokinetics and pharmacodynamics of intravenous daptomycin during continuous ambulatory peritoneal dialysis. *Clin J Am Soc Nephrol* 2011, 6, 1081-88 (2012)

Patel N, et al. Use of pharmacokinetic and pharmacodynamic principles to determine optimal administration of daptomycin in patients receiving standardized twice-weekly hemodialysis. *Antimicrob Agents Chemother* 2011, 55, 1677-83. (2012)

Benziger DP, et al. Pharmacokinetics and safety of multiple doses of daptomycin 6 mg/kg in noninfected adults undergoing hemodialysis or continuous ambulatory peritoneal dialysis. *Clin Nephrol.* 2011;75:63-69.

Darbepoetin

McMahon LP, et al. Effects of different dialysis membranes on serum concentration of epoetin alfa, darbepoetin alfa, enoxaparin, and iron sucrose during dialysis. *Am J Kidney Dis* 2004; 44:509-516. (2006)

Kawakami K, et al. Population pharmacokinetics of darbepoetin alpha in peritoneal dialysis and non-dialysis patients with chronic kidney disease after single subcutaneous administration. *Eur J Clin Pharmacol* 2009, 65, 169-78. (2011)

Darifenacin

Enablex prescribing information (2008)

Darifenacin

Enablex package insert (2006)

Darunavir

Prezista prescribing information (2007)

Giguere P, et al. Pharmacokinetics of darunavir, etravirine, and raltegravir in an HIV-infected patient on haemodialysis. *AIDS* 2009; 23: 740-2. (2011)

Dasatinib

Sprycel prescribing information (2007)

Deferiprone

Ferriprox prescribing information (2013)

Deferasirox

- Exjade prescribing information (2007)
- Degarelix
- Firmagon prescribing information (2010)
 - Firmagon package insert 2012
- Denileukin
- Ontak prescribing information (2009)
- Denosumab
- Prolia PI (2011)
- Desirudin
- Used data previously published for hirudin. (2002)
- Desloratadine
- Used data previously published for loratadine (a metabolite of loratadine). (2002)
- Desogestrel
- 2001 AHFS. (2002)
 - Mircette prescribing information (2008)
- Desvenlafaxine
- Pristiq prescribing information (2009)
 - Nichols AI, et al. The pharmacokinetics and safetyy of desvenlafaxine in subjects with chronic renal impairment. Int J Clin Pharmacol Ther. 2011;49:3-13. (2012, no change)
- Dexchlorpheniramine
- Used data previously published for chlorpheniramine. (2002)
- Dexlansoprozole
- Dexilant PI (2011)
- Dexmedetomidine
- Precedex package insert. (2001)
- Dextran 40, 70, 75
- 2001 AHFS. (2002)
- Didanosine
- Knupp CA, et al. Disposition of didanosine in HIV-seropositive patients with normal renal function or chronic renal failure: Influence of hemodialysis and continuous ambulatory peritoneal dialysis. Clin Pharmacol Ther. 1996; 60:535-42. (2003)
 - Singlas E, et al. Didanosine pharmacokinetics in patients with normal and impaired renal function: Influence of hemodialysis. Antimicrob Agents Chemother. 1992; 36:1519-24. (2003)
- Diethylstilbestrol
- Hatori M, et al. The pharmacokinetics of fosfestrol and diethylstilbestrol in chronic hemodialysis patients with prostate cancer. Int J Urol. 2001; 8:681-5. (2003)
- Digoxin
- Berkovitch M, et al. Acute digoxin overdose in a newborn with renal failure: use of digoxin immune Fab and peritoneal dialysis. Therapeutic Drug Monitoring 1994; 16:531-33. (2001)
 - Clifton GD, et al. Free and total serum digoxin concentrations in a renal failure patient after treatment with dogixin immune Fab. Clinical Pharmacy 1989; 8:441-444. (2001)
- Disodium pamidronate (see pamidronate)
- Disopyramide

Kaji T, et al. Clinical pharmacokinetics and effects of an oral sustained-release preparation of disopyramide prescribed for patients undergoing maintenance hemodialysis. *Blood Purif* 2000; 18:55-58. (2002)

Disulfiram

Johansson B. Review of the pharmacokinetics and pharmacodynamics of disulfiram and its metabolites. *Acta Psychiatr Scand* 1992; 86:15-26.

Divalproex

Same data as previously presented for valproic acid (same chemical entity). (2002)

Docetaxel

Mencoboni M, et al. Docetaxel pharmacokinetics with pre- and post-dialysis administration in a hemodialyzed patient. *Cancer Chemotherapy* 2006; 52:147-150. (2007)

Hochegger K, et al. Pharmacokinetic analysis of docetaxel during haemodialysis in a patient with locally advanced non-small cell lung cancer. *Nephrol Dial Transplant* 2007; 22:289-90. (2008)

Kaneda H, et al. Pharmacokinetics of docetaxel in a patient with non-small cell lung cancer undergoing continuous ambulatory peritoneal dialysis. *J Thorac Oncol*. 2012 Mar;7(3):621-2. (2013)

Doripenem

Doribax prescribing information (2008)

Tanoue K, et al. Removal of doripenem during hemodialysis and the optimum dosing regimen for patients undergoing hemodialysis. *Ther Apher Dial* 2011;15(3):327-33 (2013)

Dornase alfa

Micromedex drug evaluation (2003)

Dothiepin

Micromedex drug evaluation. (2002)

Doxercalciferol

Hectorol package insert (protein binding) (2002)

Dronedarone

Multaq prescribing information (2010)

Drospirenone

Angeliq prescribing information (2008)

Drotrecogin alfa

Xigris package insert. (2002)

Duloxetine

Cymbalta package insert (2005)

Dutasteride

Drugdex drug evaluation (2003)

Duodart package insert 2012

Dicycloverine (see dicyclomine) (2008)

Ecallantide

Kalbitor PI (2011)

Eculizumab

Soliris prescribing information (2008)

Efalizumab

Raptiva prescribing information (2005)

Efavirenz

Gill MJ, et al. Efavirenz dosing in patients receiving continuous ambulatory peritoneal dialysis. AIDS 2000; 14:1062-1064. (2002)

Izzedine H, et al. Pharmacokinetics of efavirenz in a patient on maintenance haemodialysis. AIDS 2000; 14:618-19 (2001)

Eletriptan

Relpax PI 2012

Eltrombopag

Revolade PI 2012

Emtricitabine

Emtriva prescribing information (2004)

Enalapril (enalaprilat)

Tsuruoka S, et al. Clearance of imidapril, an angiotensin-converting enzyme inhibitor, during hemodialysis in hypertensive renal failure patients: comparison with quinapril and enalapril. J Clin Pharmacol 2007; 47:259. (2008) Note: filed under imidapril.

Enfuvirtide

Fuzeon package insert (2004)

Tebas P, et al. Enfuvirtide does not require dose adjustment in patients with chronic kidney failure. J Acquir Immune Defic Syndr. 2008; 47:342. (2009)

Enoxaparin

McMahon LP, et al. Effects of different dialysis membranes on serum concentration of epoetin alfa, darbepoetin alfa, enoxaparin, and iron sucrose during dialysis. Am J Kidney Dis 2004; 44:509-516. (2006)

Brophy DF, et al. The pharmacokinetics of enoxaparin do not correlate with its pharmacodynamic effect in patients receiving dialysis therapies. J Clin Pharmacol 2006; 46:887. (2007)

Entacapone

Comtan package insert.

Entecavir

Baraclude packet insert (2006)

Eplerenone

Inspra prescribing information (2004) and communication from company regarding dialyzer used..

Ravis WR, et al. Pharmacokinetics of eplerenone after single and multiple dosing in subjects with and without renal impairment. Clin Pharmacol Ther 2004; 75 (2):P37 abstract (2005)

Ravis WR, et al. Pharmacokinetics of eplerenone after single and multiple dosing in subjects with and without renal impairment. J Clin Pharmacol 2005; 45:810-821. (2006)

Epoetin

McMahon LP, et al. Effects of different dialysis membranes on serum concentration of epoetin alfa, darbepoetin alfa, enoxaparin, and iron sucrose during dialysis. Am J Kidney Dis 2004; 44:509-516. (2006)

Epoetin beta

Neorecormon package insert (2007)

Eptacog alfa

See Factor VII

Ergotamine

Ergomar package insert. (2002)

Personal communication with company indicated no studies have been done. (2003)

Eribulin

Halaven prescribing information (2012)

Erlotinib

Tarceva package insert (2006)

Togashi Y, et al. Pharmacokinetics of erlotinib and its active metabolite OSI-420 in patient with non-small cell cancer and chronic renal failure who are undergoing hemodialysis. *J Thorac Oncol.* 2010;5:601-605. (2011)

Ertapenem

Invanz information from PDR (2003)

Mistry GC, et al. Pharmacokinetics of ertapenem in patients with varying degrees of renal insufficiency and in patients on hemodialysis. *J Clin Pharmacol* 2006; 46:1128-1138. (2007)

Cardone KE et al. Ertapenem pharmacokinetics and pharmacodynamics during continuous ambulatory peritoneal dialysis. *Antimicrob Agents Chemother.* 2012 Feb;56(2):725-30

Eslicarbazine

Maia J, et al. Effect of renal impairment on the pharmacokinetics of eslicarbazine acetate. *Int J Clin Pharmacol Ther* 2008; 46:119-130. (2009)

Esomeprazole

Nexium package insert. (2002)

Estazolam

Micromedex drug evaluation (2010)

Estradiol

Stehman-Breen C, et al. Pharmacokinetics of oral micronized B-estradiol in postmenopausal women receiving maintenance hemodialysis. *Kidney Int.* 2003; 64:290-4. (2004)

Micromedex drug evaluation (2010)

Estrone

Stehman-Breen C, et al. Pharmacokinetics of oral micronized B-estradiol in postmenopausal women receiving maintenance hemodialysis. *Kidney Int.* 2003; 64:290-4. (2004)

Estropipate

Micromedex drug evaluation (2010)

Etanercept

Micromedex-Martindale (2004)

Enbrel package insert (2006)

Don BR, et al. The pharmacokinetics of etanercept in patients with end-stage renal disease on haemodialysis. *Journal of Pharmacy and Pharmacology* 2005; 57:1407.

Ethacrynic acid

Micromedex (2008)

Ethinyl estradiol

Orme MLE, et al. Clinical pharmacokinetics of oral contraceptive steroids. *Clin Pharmacokinet* 1983; 8:95-136. (2002)

Mircette prescribing information (2008)

Ethionamide

Malone RS, et al. The effect of hemodialysis on cycloserine, ethionamide, para-aminosalicylate, and clofazimine. *Chest* 1999; 116:984-990. (2001)

Etodolac

Micromedex drug evaluation (2010)

Etoposide

Watanabe R, et al. Feasibility of combination chemotherapy with cisplatin and etoposide for haemodialysis patients with lung cancer. *Br J Cancer*. 2003; 88:25-30. (2004)

Etoricoxib

Agrawal NGB, et al. Pharmacokinetics of etoricoxib in patients with renal impairment. *J Clin Pharmacol* 2004; 44:48-58. (2006)

Etravirine

Intelence prescribing information (2009)

Giguere P, et al. Pharmacokinetics of darunavir, etravirine, and raltegravir in an HIV-infected patient on haemodialysis. *AIDS* 2009, 23, 740-2. (2011)

Everolimus

Listed in Dialysis of Drugs US 2010 edition (2011)

Exenatide

Byetta package insert (2006)- no data

Linnebjerg H, et al. Effect of renal impairment on the pharmacokinetics of exenatide. *Br J Clin Pharmacol* 2007; 64:317-327. (2008) - no data

Exemestane

Aromasin package insert (2001)

Ezetimibe

Zetia prescribing information (2004)

Ezogabine

Potiga prescribing information (2012)

Factor VII

Micromedex-Martindale (2004)

Fampridine

See dalfampridine Fampyra PI (2013)

Febuxostat

Uloric prescribing information (2010)

Felodipine

Plendil prescribing information (2010)

Fenofibrate

Tricor prescribing information (2005)

Desager JP, et al. Effect of hemodialysis of plasma kinetics of fenofibrate in chronic renal failure. *Nephron* 1982; 31:51-4. (2005)

Fenoprofen

Nalfon prescribing information (2010)

Fentanyl

Bastani B, et al. Removal of morphine but not fentanyl during haemodialysis. *Nephrol Dial Transplant* 1997; 12:2802-3. (2001)

Ferric carboxymaltose

Geisser P. The pharmacology and safety profile of ferric carboxymaltose (Ferinject): structure/reactivity relationships of iron preparations. Port J Nephrol Hypert 2009; 23, 11-16 (2013)

Ferumoxytol

Landry R, et al. Pharmacokinetic study of ferumoxytol: a new iron replacement therapy in normal subjects and hemodialysis patients. Am J Nephrol 2005; 25:400-410. (2006)
Feraheme prescribing information (2010)

Fidaxomicin

Dificid prescribing information (2012)

Fingolimod

Gilenya prescribing information (2012)

Fleroxacin

Uehlinger DE, et al. Pharmacokinetics of fleroxacin after multiple oral dosing in patients receiving regular hemodialysis. Antimicrob Agents Chemother. 1996; 40:1903-09. (2001)

Florbetapir F18

Amyvid PI (2013)

Flucloxacillin

Micromedex (Martindale) (2002)

Fluocortolone

Micromedex drug evaluation. (2002)

Fluorouracil

Galletti PM, et al. Hemodialysis in cancer chemotherapy. Trans ASAIO. 1996; 12:20. (2003)

Keller F, et al. Combined haemoperfusion, haemofiltration and haemodialysis for systemic detoxification in locoregional 5-fluorouracil therapy. Cancer Chemother Pharmacol. 1991; 29:164-6. (2003)

Rengelshausen J, et al. Pharmacokinetics of 5-fluorouracil and its catabolites determined by 19F Nuclear magnetic resonance spectroscopy for a patient on chronic hemodialysis. Am J Kidney Dis. 2002; 39:E10. (2003)

Watayo Y, et al. Drug monitoring during FOLFOX6 therapy in a rectal cancer patient on chronic hemodialysis. Jpn J Clin Oncol. 2010;40:360-364. (2011)

Fluoxetine

Prozac package insert (2010)

Flurbiprofen

Ansaid package insert (2010)

Fluticasone

Micromedex drug evaluation. (2002)

Fluvastatin

Appel-Dingemanse, et al. Pharmacokinetics of fluvastatin in subjects with renal impairment and nephrotic syndrome. J Clin Pharmacol. 2002; 42:312-8. (2003)

Ichimaru N, et al. Pharmacokinetics and lipid-lowering effect of fluvastatin in hypercholesterolaemic patients on maintenance haemodialysis. J Int Med Res. 2004; 32:45-52.

Micromedex drug evaluation (2010)

Fluvoxamine

Kamo T, et al. Efficacy and pharmacokinetics of fluvoxamine maleate in patients with mild depression undergoing hemodialysis. *Psychiatry Clin Neurosci*. 2004; 58:133-7. (2005)

Folic acid

Skoutakis VA, et al. Folic acid dosage for chronic hemodialysis patients. *Clin Pharmacol Ther*. 1975; 18:200-4. (2001)

Follitropin beta

Follistim AQ Cartridge prescribing information (no data) (2006)

Fondaparinux

Arixtra prescribing information (2003)

Fosamprenavir

Lexiva prescribing information (2004)

Fosaprepitant

Emend prescribing information (2009)

Foscarnet

Aweeka FT, et al. Effect of renal disease and hemodialysis on foscarnet pharmacokinetics and dosing recommendations. *J Acquired Immune Deficiency Syndromes and Human Retrovirology*. 1999; 20:350-7. (2001)

Sam R, et al. Removal of foscarnet by hemodialysis using dialysate-side values. *Int J Artif Organs* 2000; 23:165-167. (2002)

Fosphenytoin

Micromedex drug evaluation (2010)

Fulvestrant

Faslodex prescribing information (2004)

Furosemide

Micromedex (2008)

Gabapentin

Lal R et al. Clinical pharmacokinetics of gabapentin after administration of gabapentin enacarbil extended-release tablets in patients with varying degrees of renal function using data from an open-label, single-dose pharmacokinetic study. *Clin Ther*. 2012 Jan;34(1):201-13. Epub 2011 Dec 28. (2013)

Gadobenate

Multihance prescribing information (2011)

Gadobutrol

Tombach B, et al. Using highly concentrated gadobutrol as an MR contrast agent in patients also requiring hemodialysis: safety and dialysability. *AJR* 2002; 178:105. (2005)

Gadodiamide

Saitoh T, et al. Dialyzability of gadodiamide in hemodialysis patients. *Radiation Med* 2006; 24:445-451. (2008)

Joffe P, et al. The pharmacokinetics of gadodiamide in patients with severe renal insufficiency treated conservatively or undergoing hemodialysis or continuous ambulatory peritoneal dialysis. *Acad Radiol* 2011, 18, 1060.(2012)

Gadolinium

Okada S, et al. Safety of gadolinium contrast agent in hemodialysis patients. *Acta Radiologica* 2001; 42:339-341. (2002)

Dorsam J, et al. Elimination of gadolinium-DTPA by peritoneal dialysis. *Nephrol Dial Transplant* 1995; 10:1228-1230.

Gadopentetate (Gd-DTPA, Gadoteric acid)

Choyke PL, et al. Case report: gadopentetate dimeglumine enhanced MRI in an anemphric patient on dialysis. *Clin Radiol.* 1990; 41:430-2. (2004)

Magnevist prescribing information (2005)

Choyke PL, et al. Clearance of gadolinium chelates by hemodialysis: an in vitro study. *JMRI* 1995; 4:470-472. (2005)

Haustein J, et al. Elimination of Gd-DTPA by means of hemodialysis. *Eur J Radiol* 1990; 11:227-229. (2005)

Gadoxetate

Eovist prescribing information (2009)

Gschwend S, et al. Pharmacokinetics and imaging properties of Gd-EOB-DTPA in patients with hepatic and renal impairment. *Invest Radiol.* 2011 Sep;46(9):556-66. (2013)

Gadoxetic acid

Micromedex - Martindale (2007)

Galactosidase

Also see agalsidase alfa (Replagal) 2006

Gallopamil

Micromedex drug evaluation (2010)

Garenoxacin

Krishna G, et al. Garenoxacin pharmacokinetics in subjects with renal impairment. *Curr Med Res Opin* 2007; 23:649-657. (2008)

Gefitinib

Micromedex drug evaluation (2004)

Shinagawa N, et al. Gefitinib administration in a patient with lung cancer undergoing hemodialysis. *Lung Cancer* 2007; 58:422-424. (2009)

Gemcitabine

Kiani A, et al. Pharmacokinetics of gemcitabine in a patient with end-stage renal disease: effective clearance of its main metabolite by standard hemodialysis treatment. *Cancer Chemother Pharmacol.* 2003; 51:266-70. (2004)

Masumori N, et al. Measurement of plasma concentration of gemcitabine and its metabolite dFdU in hemodialysis patients with advanced urothelial cancer. *Jpn J Clin Oncol* 2008; 38:182. (2009)

Koolen SLW et al. Pharmokinetics of gemcitabine and metabolites in a patient with double-sided nephrectomy: A case report and review of the literature. *The Oncologist* 2009;14:944-948. (confirmation of earlier findings).

Gemfibrozil

Lopid package insert (2010)

Gemifloxacin

Factive package insert (2004)

Gemptuzumab

Mylotarg package insert.

Gentamicin

Sowinski KM, et al. Influence of hemodialysis on gentamicin pharmacokinetics, removal during hemodialysis and recommended dosing. *Clin J Am Soc Nephrol.* 2008; 3:355-361. (2009)

Varghese JM et al. Pharmacokinetics of intraperitoneal gentamicin in peritoneal dialysis patients with peritonitis. *CJASN* 2012, 7, 1249-56. (2013)

Gestodene

Tauber U, et al. Pharmacokinetics of gestodene and ethynodiol after oral administration of a monophasic contraceptive. *Am J Obstet Gynecol* 1990; 163:1414-1420. (2002)

Gliclazide

Micromedex drug evaluation (2002)

Glimepiride

Micromedex drug evaluation (2010)

Glipizide

Micromedex drug evaluation (2010)

Glucarpidase

Voraxaze package information (2013)

Glyburide (see glibenclamide)

Micromedex drug evaluation (2010)

Golimumab

Simponi prescribing information (2011)

Growth hormone

Langbakke IH, et al. Pharmacokinetics and pharmacodynamics of growth hormone in patients on chronic haemodialysis compared with matched healthy subjects: an open, nonrandomized, parallel-group trial. *Clin Endocrinol* 2007; July 18 e-pub (2008)

Norditropin prescribing information (2008)

Guanabenz

Micromedex drug evaluation (2010)

H1N1 Vaccine

Influenza A PI

Haloperidol

Micromedex drug evaluation (2010)

Hetastarch (pentastarch)

2001 AHFS. (2002)

Hirudin

Bucha E, et al. In vitro study of r-hirudin permeability through membranes of different haemodialysers. *Nephrol Dial Transplant.* 1999;14:2922-6 (2001)

Willey ML, et al. Removal of lepirudin, a recombinant hirudin, by hemodialysis, hemofiltration, or plasmapheresis. *Pharmacotherapy* 2002; 22:492-9. (2003)

Vanholder R, et al. Pharmacokinetics of recombinant hirudin in hemodialyzed end-stage renal failure patients. *Thromb Haemost* 1997; 77:650-5. (2003)

Human growth hormone

Genotropin prescribing information (2011)

Hydrochlorothiazide

Exforge HCT package insert (2011)

Hydromorphone

- Davison SN, et al. Pain management in chronic kidney disease: the pharmacokinetics and pharmacodynamics of hydromorphone and hydromorphone-3-glucuronide in hemodialysis patients. *J Opioid Management* 2008; 4:335-6, 339-44. (2011)
- Hydroxocobalamin (and cyanocobolamin)
Chandna SM, et al. Low serum vitamin B12 levels in chronic high-flux haemodialysis patients. *Nephron* 1997; 75:259-263. (2002)
- Hydroxycarbamide (see hydroxyurea) (2008)
- Hydroxyzine
Micromedex drug evaluation (2010)
- Ibandronate
Bergner R, et al. Elimination of intravenously administered ibandronate in patients on haemodialysis: a monocentre study. *Nephrol Dial Transplant* 2002; 17:1281-5. (2003)
- Ibritumomab
Zevalin package insert (2006)
- Ibuprofen
Micromedex drug evaluation (2010)
- Icatibant
Firazyr package insert (2012)
- Icospent ethyl
Vascepa PI (2013)
- Idarubicin
Idamycin package insert (2010)
- Idebenone
Catena package insert (2009)
- Idursulfase
Elaprase prescribing information (2007)
- Ifosfamide
Carlson L, et al. Toxicity, pharmacokinetics, and in vitro hemodialysis clearance of ifosfamide and metabolites in an anephric pediatric patient with Wilms' tumor. *Cancer Chemother Pharmacol.* 1998; 41:140-146. (2001)
- Iloperidone
Fanapt prescribing information (2010)
- Imatinib
Gleevec package insert. (2006)
Pappas P, et al. Pharmacokinetics of imatinib mesylate in end stage renal disease. A case study. *Cancer Chemother Pharmacol* 2005; 56:358-360. (2006)
- Imidapril (imidaprilat)
Tsuruoka S, et al. Clearance of imidapril, an angiotensin-converting enzyme inhibitor, during hemodialysis in hypertensive renal failure patients: comparison with quanapril and enalapril. *J Clin Pharmacol* 2007; 47:259-263. (2008)
- Imiglucerase
PDR entry for Cerezyme. (2002)
Cerezyme package insert (2007)
- Imipramine
Micromedex drug evaluation (2010)
- Indacaterol

Arcapta Neohaler prescribing information (2012)

Onbrez Breezhaler PI (2012)

Indinavir

Izzedine H, et al. Indinavir pharmacokinetics in haemodialysis. *Nephrol Dial Transplant.* 2000; 15:1102-3. (2001)

Indomethacin

Micromedex drug evaluation (2010)

Infliximab

Remicade package insert. (2002)

Influenza A (H1N1)

Influenza A (H1N1) prescribing information (2011)

Ingenol mebutate

Picato package information (2013)

Insulin aspart

PDR entry for NovoLog (2003)

Novolog prescribing information (2006)

Insulin detemir

Jacobsen LV, et al. Pharmacokinetics of insulin detemir in subjects with renal or hepatic impairment. *Diabetes* 2002; 51:A102. (2006)

Levemir prescribing information (2006)

Insulin glargine

Lantus package insert. (2001)

Insulin glulisine

Apidra prescribing information (2005)

Insulin lispro

Aisenpreis U, et al. Pharmacokinetics and pharmacodynamics of insulin Lispro compared with regular insulin in haemodialysis patients with diabetes mellitus. *Nephrol Dial Transplant.* 1999; 14(Suppl 4):5-6. (2001)

Interferons

See peginterferons.

Iobenguane

AdreView prescribing information (2009)

Iodixanol

Bailie GR, et al. Determination of iodixanol hemodialysis clearance using a novel in vitro system. *Clin Research & Reg Affairs.* 1996; 13:111-124. (2001)

Ioflupane I-123

Da TSCAN prescribing information (2012)

Iohexol

Furukawa T, et al. Elimination of low-osmolality contrast media by hemodialysis. *Acta Radiologica.* 1996; 37:966-971. (2002)

Horiuchi K, et al. Elimination of non-ionic contrast medium by hemodialysis in patients with impaired renal function. *Nippon Ika Daigaku Zasshi.* 1999; 66:305-7. (2001)

Omnipaque package insert. (2001)

Iomeprol

Lorusso V, et al. Pharmacokinetics and safety of iomeprol in healthy volunteers and in patients with renal impairment of end-stage renal disease requiring hemodialysis. *Invest Radiol* 2001; 36:309-316. (2002)

Iwamoto M, et al. Elimination of iomeprol in patients undergoing continuous ambulatory peritoneal dialysis. *Perit Dial Int.* 1999; 19:380-385. (2002)

Ueda J, et al. Permeability of iodinated and MR contrast media through two types of hemodialysis membrane. *Europ J Rad* 1999; 31:76-80. (2008)

Iopamidol

Donnelly PK, et al. Clearance of iopamidol, a non-ionic contrast medium, by CAPD in patients with end-stage renal failure. *Br J Radiol* 1992; 65:1108-1113. (2002)

Donnelly PK, et al. Hemodialysis and iopamidol clearance after subclavian venography. *Invest Radiol* 1993; 28:629-632. (2002)

Iopromide

Schindler R, et al. Removal of contrast media by different extracorporeal treatments. *Nephrol Dial Transplant* 2001; 16:1471-1474. (2002)

Matzkies FK, et al. Influence of dialysis procedure, membrane surface and membrane material on iopromide elimination in patients with reduced kidney function. *Am J Nephrol* 2000; 20:300-304. (2002)

Matzkies FK, et al. Clearance of iopromide during haemodialysis with high- and low-flux membranes. *Acta Radiologica*. 1999; 40:220-223. (2005)

Iotrolan

Furukawa T, et al. Permeability of contrast media through hemodialysis membrane. *Acta Radiologica* 1997; 38:918-921. (2008)

Ioversol

Ueda J, et al. Elimination of ioversol by hemodialysis. *Acta Radiologica* 1996; 37:826-829. (2002)

Ioxaglate

Furukawa T, et al. Elimination of low-osmolality contrast media by hemodialysis. *Acta Radiologica*. 1996; 37:966-971. (2002)

Furukawa T, et al. Permeability of contrast media through hemodialysis membrane. *Acta Radiologica* 1997; 38:918-921. (2008)

Micromedex (ioxaglic acid) (2008)

Ueda J, et al. Permeability of iodinated and MR contrast media through two types of hemodialysis membrane. *Europ J Rad* 1999; 31:76-80. (2008)

Ioxilan

Oxilan prescribing information (2007)

Ipilimumab

Yervoy prescribing information (2012)

Irbesartan

Marino MR, et al. Pharmacokinetics of irbesartan are not altered in special populations. *J Cardiovasc Pharmacol* 2002; 40:112-22. (2003)

Irinotecan

Venat-Bouvet L, et al. Irinotecan-based chemotherapy in a metastatic colorectal cancer patient under haemodialysis for chronic renal dysfunction: two cases considered. *Anti-Cancer Drugs* 2007; 18:977-980. (2008) (The information contained in this article was

replaced by Czock et al in 2010). Amgen Australia asked that I use Kuf 8.5 in the reference.

Czock D, et al. Irinotecan in cancer patients with end-stage renal failure. Ann Pharmacother 2009; 43:363-369. (2010)

Eloot S, et al. Middle molecule removal in low-flux polysulfone dialyzers: impact of flows and surface area on whole-body and dialyzer clearances. Hemodial Int 2005; 9:399. (Filed in 2010, but only used as documentation of Kuf for previous years).

Fujita KI, Sunakawa Y, Miwa K, et al. Delayed elimination of SN-38 in cancer patient with severe renal failure requiring dialysis who receive irinotecan. Drug Metab Dispos. 2010 Oct 27. [Epub ahead of print] (2011 - added L for high flux for SN-38).

Iron dextran

Bailie GR, et al. Minimal removal of iron-dextran by conventional haemodialysis. Clin Drug Invest. 1997; 14:12-15. (2001)

Iron polymaltose

Micromedex (Martindale) (2002)

Iron sucrose

Venofer package insert. (2001)

Venofer package insert. (2006)

McMahon LP, et al. Effects of different dialysis membranes on serum concentration of epoetin alfa, darbepoetin alfa, enoxaparin, and iron sucrose during dialysis. Am J Kidney Dis 2004; 44:509-516. (2006)

Isoniazid

Ahn C, et al. The effect of peritoneal dialysis on the plasma and peritoneal fluid concentration of isoniazid, pyrazinamide and rifampin. Manuscript reviewed for PDI. (2003)

Isotretinoin

Accutane package insert. (2002)

Isradipine

DynaCirc prescribing information (2010)

Itraconazole

Mohr JF, et al. Pharmacokinetics of intravenous itraconazole in stable hemodialysis patients. Antimicrob Agents Chemother 2004; 48:3151. (2005)

Ivacaftor

Kalydeco package information (2013)

Ketamine

Koppel C, et al. Effects of enzyme induction, renal and cardiac function on ketamine plasma kinetics in patients with ketamine long-term analgesedation. Eur J Drug Metab Pharmacokin. 1990;15:259 (abstract only) (2002)

Ketoprofen

Micromedex drug evaluation (2010)

Ketorolac

Micromedex drug evaluation (2010)

L-tryptophan

Lesaffer G, et al. Intradialytic removal of protein-bound uraemic toxins: role of solute characteristics and of dialyser membrane. Nephrol Dial Transplant 2000; 15:50-7. (2003)

Lacosamide

Vimpat prescribing information (2011)

Lactulose

Kristalose prescribing information (2004)

Lamivudine

Bohjanen PR, et al. Steady-state pharmacokinetics of lamivudine in human immunodeficiency virus-infected patients with end-stage renal disease receiving chronic dialysis. *Antimicrob Agents Chemother* 2002; 46:2387-92. (2003)

Asari A, et al. Pharmacokinetics of lamivudine in subjects receiving peritoneal dialysis in end-stage renal failure. *Br J Clin Pharmacol* 2007; 64:738-44. (2008)

Lansoprazole

Prevacid prescribing information (2010)

Lanthanum carbonate

Fosrenol prescribing information (2005); updated 2007

Lapatinib

Tykerb prescribing information (2008)

Laronidase

Aldurazyme prescribing information (2007)

Leflunomide

Beaman JM, et al. Effect of hemodialysis on leflunomide plasma concentrations. *Ann Pharmacother* 2002; 36:75-7. (2003)

Lenalidomide

Chen N, et al. Pharmacokinetics of lenalidomide in subjects with various degrees of renal impairment and in subjects on hemodialysis. *J Clin Pharmacol* 2007; 47:1466. (2009)

Lenograstim

Used same data as previously presented for filgrastim. (2002)

Lead

See CaNa2EDTA

Lepirudin

Same data as previously presented for hirudin (same product). (2002)

Levetiracetam

Keppra package insert. (2001)

Levodopa

Anderson RJ, et al. Clinical Use of Drugs in Renal Failure (1976) (2001)

Levocarnitine

Same data as previously presented for carnitine. (2002)

Bain MA, et al. Oral L-carnitine: metabolite formation and hemodialysis. *Curr Drug Metab.* 2006; 7:811-816. (2008)

Levocetirizine

Xyzal prescribing information (2008)

Micromedex drug evaluation (2010)

Levofloxacin

Sowinski KM, et al. Levofloxacin pharmacokinetics in ESRD and removal by the cellulose acetate high performance-210 hemodialyzer. *Am J Kidney Dis.* 2003; 42:342-9. (2004)

Levaquin prescribing information (2009)

Tsuruoka S, et al. Pharmacokinetics of multiple-dose levofloxacin in hemodialysis

patients. Am J Kidney Dis. 2011 Sep;58(3):498-9. (2013)

Levomethadyl

Orlam product information from PDR. (2002)

Levosimendan

Puttonen J, et al. Effect of severe renal failure and haemodialysis on the pharmacokinetics of levosimendan and its metabolites. Clin Pharmacokinet 2007; 46:235-46. (2008)

Lidocaine

De Martin S, et al. Differential effect of chronic renal failure on the pharmacokinetics of lidocaine in patients receiving and not receiving hemodialysis. Clin Pharmacol Ther 2006; 80:597-606. (2008)

Linagliptin

Tradjenta prescribing information (2012)

Linezolid

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Victoza prescribing information (2011).

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Locaserin

Belviq PI (2013)

Lopinavir

Kaletra package insert. (2002)

Izzedine H, et al. ABT 378/r: a novel inhibitor of HIV-1 protease in haemodialysis. AIDS 2001; 15:662-664. (2009)

Loratadine

Micromedex drug evaluation (2010)

Losartan

Sica DA, et al. Pharmacokinetics and blood pressure response of losartan in end-stage renal disease. Clin Pharmacokinetic 2000; 38:519-526. (2002)

Loteprednol

Alrex PI (Canada 2010)

Lovastatin

Mevacor prescribing information (2010)

Lubiprostone
Amitiza prescribing information (2009)

Lucinactant
Surfaxin PI (2013)

Lumefantrine
Micromedex (2009)

Lumiracoxib
Prexige prescribing information (2007)

Lurasidone HCl
Latuda prescribing information (2012)

Macrogol 3350
Osmolax PI (2012)

Magnesium oxide
Prepopik PI (2013)

Maprotiline
Micromedex drug evaluation (2010)

Mebendazole
Allgayer H, et al. Lack of effect of haemodialysis on mebendazole kinetics: studies in a patient with echinococcosis and renal failure. Eur J Clin Pharmacol. 1984; 27:243-245. (2002)

Mecasermin
Increlex package insert (2006)

Mechlorethamine
Micromedex (2008)

Meclofenamate
Micromedex drug evaluation (2010)

Medroxyprogesterone
Micromedex drug evaluation (2001)
Prempro package insert (2001)

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Ludemann P et al. Clearance of melatonin and 6-sulfatoxymelatonin by hemodialysis in patients with end-stage renal disease. J. Pineal Res. 2001;31:222-227.

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Ponstel prescribing information (2010)

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Mobic package insert (2001)

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Mesuximide (see methsuximide) (2008)

Metformin

Galvumet PI 2012

Methicillin

Micromedex drug evaluation (2010)

Methodone

Micromedex drug evaluation (2010)

Methohexitol

Brevital package insert (2004)

Methotrexate

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Mircera prescribing information (2008)

Methylamine

Ponda MP et al. Methylamine clearance by haemodialysis is low. Nephrol Dial Transplant. 2010;25:1608-1613.

Methyl aminolevulinate HCl

Metvix PI (Canada 2010)

Methylphenobarbitone

Prominal prescribing information (MIMS) (2002)

Metoclopramide

Micromedex drug evaluation (2010)

Metolozone

Micromedex drug evaluation (2010)

Metronidazole

Burda AM, et al. Hemodialysis clearance of metronidazole following overdose. Ann Pharmacotherapy 2005; 39:1366. (2006)

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Micafungin

Mycamine package insert (2006)

Miconazole

Micromedex drug evaluation (2010)

Midazolam

Micromedex drug evaluation (2010)

Midodrine

Blowey DL, et al. Midodrine efficacy and pharmacokinetics in a patient with recurrent intradialytic hypotension. Am J Kidney Dis. 1996; 28:132-136. (2001)

Mifepristone

Mifeprex package insert. (2002)

Miglustat

Zavesca PI (2012)

Milnacipran

Savella prescribing information (2010)

Mirabegron

Myrbetriq PI (2013)

Mirtazapine

Stimmel GL, et al. Mirtazapine: An antidepressant with noradrenergic and specific serotonergic effects. Pharmacotherapy 1997; 17:10-21. (1998)

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Mitoxantrone

Micromedex drug evaluation (2010)

Moroctocog alfa

Micromedex drugdex drug evaluation (2004)

Morphine

Bastani B, et al. Removal of morphine but not fentanyl during haemodialysis. Nephrol Dial Transplant 1997; 12:2802-3. (2001)

Moxifloxacin

Skalioti C, et al. Pharmacokinetics of moxifloxacin in patients undergoing continuous ambulatory peritoneal dialysis. Perit Dial Int. 2009;29:575-579. (2011)

Mycophenolate

Micromedex drug evaluation (2010)

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PDR entry for NegGram. (2002)

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Matzke GR, et al. The effect of renal insufficiency and hemodialysis on the pharmacokinetics of nalmefene. J Clin Pharmacol. 1996; 36:144-151. (2001)

Micromedex drug evaluation (2010)

Naloxone

Targin PI (2012)

Naltrexone

Kambia NK, et al. Pharmacokinetics and dialysability of naltrexone in patients undergoing hemodialysis. Eur J Drug Met Pharmacokinet 2004; 29:225-230. (2006)

Micromedex drug evaluation (2010)

Naproxen

- Micromedex drug evaluation (2010)
- Natalizumab
Tysabri package insert (2006)
- Nateglinide
Starlix package insert. (2002)
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- Nebivolol
Bystolic prescribing information (2009)
- Nefazodone
Micromedex drug evaluation (2010)
- Nefopam
Mimoz O, et al. Nefopam pharmacokinetics in patients with end-stage renal disease. *Anesth Analg* 2010, 111, 1146-53. (2012)
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Arranon package insert (2008)
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Natrecor package insert. (2002)
- Nevirapine
Izzidine H, et al. Pharmacokinetic of nevirapine in haemodialysis. *Nephrol Dial Transplant* 2001; 16:192-193. (2002)
Taburet A-M, et al. Antiretroviral drug removal by haemodialysis. *AIDS* 2000; 14:902-903. (2001)
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Micromedex drug evaluation (2010)
- Nicotine
Molander L, et al. Pharmacokinetics of nicotine in kidney failure. *Clin Pharmacol Ther*. 2000; 68:250-60. (2001)
- Nifedipine
Micromedex drug evaluation (2010)

- Nilotinib
Tasigna prescribing information (2008)
Onaka T, et al. Pharmacokinetics of nilotinib in imatinib-resistant/intolerant chronic myeloid leukemia patients on hemodialysis for chronic renal failure. Am J Hematol. 2012 Apr;87(4):451. (2013)
- Nimodipine
Micromedex drug evaluation (2010)
- Nisoldipine
Micromedex drug evaluation (2010)
- Nitazoxanide
Micromedex (2004)
- Nitisinone
Orfadin PI (2012)
- Nitrendipine
Micromedex drug evaluation (2010)
- Nomegestrol
Zoely PI (2013)
- Nonacog alfa
Alphanine SD prescribing information (2005)
- Norethisterone
(see norethindrone) (2008)
- Norgestimate
Info downloaded from Internet (2003)
Ortho Tri-Cyclen Lo prescribing information (2008)
- Nortriptyline
Micromedex drug evaluation (2010)
- Nystatin
Micromedex drugdex drug evaluation (2004)
- Octacog alfa
Advate prescribing information (2005)
- Ofatumumab
Arzerra prescribing information (2011)
- Ofloxacin
Thalhammer F, et al. Ofloxacin clearance during hemodialysis: a comparison of polysulfone and cellulose acetate hemodialyzers. Am J Kidney Dis. 1998; 32:642-645. (2001)
- Olanzapine
Zyprexa prescribing information (2010)
- Olmesartan
Micromedex (2004)
Tanaka H, et al. Pharmacokinetics of olmesartan medoxomil in hemodialysis patients: little effect of dialysis upon its pharmacokinetics. Clin Exp Nephrol. 2009; 13:61-65. (2009)
Sevikar PI 2012
- Omalizumab
Xolair prescribing information (2005)

Omega-3-acid ethyl esters

 Omacor PI (2012)

Oprelvekin

 Neumega prescribing information (2005)

Oritavancin

 Kumar A et al. In vitro characterization of oritavancin clearance from human blood by low-flux, high-flux, and continuous renal replacement therapy dialyzers. *Int J Artif Organs.* 2011 Nov;34(11):1067-74. (2013)

Orlistat

 Xenical package insert. (2000)

Ornipressin

 Por-8 Ferring prescribing information (2011)

Oseltamivir

 Robson R, et al. The pharmacokinetics and tolerability of oseltamivir suspension in patients on haemodialysis and continuous ambulatory peritoneal dialysis. *Nephrol Dial Transplant* 2006; 21:2556.

 Schreuder MF, et al. Oseltamivir dosing in children undergoing hemodialysis. *CID* 2010;50:1427-1428. (2011)

Oxacillin

 Micromedex drug evaluation (2010)

Oxaliplatin

 Watayo Y, et al. Drug monitoring during FOLFOX6 therapy in a rectal cancer patient on chronic hemodialysis. *Jpn J Clin Oncol.* 2010;40:360-364. (2011)

 Horimatsu T, et al. Pharmacokinetics of oxaloplatin in a hemodialytic patient treated with modified FOLFOX-6 plus bevacizumab therapy. *Cancer Chemother Pharmacol* 2011, 68, 263-6. (2012)

Oxandrolone

 Micromedex drug evaluation. (2002)

Oxprenolol

 Belpaire FM, et al. Influence of continuous ambulatory peritoneal dialysis on serum alpha-1 acid glycoprotein concentration and drug binding. *Eur J Clin Pharmacol.* 1988; 35:339-343. (2002)

Oxtriphylline

 Published same data as for theophylline. (2002)

Oxycodone

 Lee MA, et al. Measurements of plasma oxycodone, nnoroxycodone and oxymorphone levels in a patient with bilateral nephrectomy who is undergoing haemodialysis. *Palliative Medicine* 2005; 19:259-260. (2006)

 Targin PI (2012)

Oxymorphone

 Micromedex drug evaluation (2010)

Paclitaxel

 Tomita M, et al. Pharmacokinetics of paclitaxel and cisplatin in a hemodialysis patient with recurrent ovarian cancer. *Anticancer Drugs* 2001; 12:485-487. (2003)

 Kawate S, et al. Pharmacokinetics of paclitaxel in a hemodialysis patient with advanced gastric cancer: a case report. *World J Gastroenterol* 2006; 12:5237-9. (2008)

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Micromedex drug evaluation (2010)

Palifermin

Kepivance package insert (2006)

Gillespie B, et al. Effect of renal function on the pharmacokinetics of palifermin. *J Clin Pharmacol.* 2006; 46:1460-1468. (2008)

Palivizumab

Synagis package insert. (2002)

Palonosetron

Aloxi prescribing information. (2012)

Pamidronate

Buttazzoni M, et al. Elimination and clearance of pamidronate by haemodialysis.

Nephrology 2006; 11:197. (2007)

Pancreatic extract

Creon Micro package insert (2012)

Panitumumab

Vectibix prescribing information (2007)

Pantoprazole

Kliem V, et al. Pharmacokinetics of pantoprazole in patients with end-stage renal failure.

Nephrol Dial Transplant. 1998; 13:1189-1193. (2001)

Protonix prescribing information (2010)

Papaverine

Package insert from Bedford Laboratories (2005)

Para-aminosalicylate

Malone RS, et al. The effect of hemodialysis on cycloserine, ethionamide, para-aminosalicylate, and clofazimine. *Chest.* 1999; 116:984-990. (2001)

Parecoxib

A prodrug for valdecoxib. Used same information. (2003)

Paricalcitol

Cato A, et al. Lack of effect of hemodialysis on plasma concentrations of paricalitol allows dose administration without regard to dialysis. *J Am Soc Nephrol.* 1997; 8:571A. (2001)

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Paroxetine

Micromedex drug evaluation (2010)

Pazopanib

Votrient prescribing information (2011)

Pegademase

Micromedex (2009)

Pegfilgrastim

Neulasta in PDR (2004)

Yang B-B, et al. Pharmacokinetics and pharmacodynamics of pegfilgrastim in subjects with various degrees of renal function. *J Clin Pharmacol* 2008; 48:1025-1031. (2010)

Peginesatide

Omontys PI (2013)

Peginterferon-alfa 2a and 2b

Pegasys package insert (peginterferon alfa-2a) 2006

Gupta SK, et al. Single-dose pharmacokinetics and safety of pegylated interferon-alfa2b in patients with chronic renal dysfunction. *J Clin Pharmacol*. 2002; 42:1109-1115. (2004)

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Pegloticase

Krystexxa prescribing information (2012)

Pegvisomant

Somavert prescribing information (2004)

Pentoxifylline

Micromedex drug evaluation (2010)

Pergolide

Micromedex drug evaluation (2010)

Perhexiline

Pexsig prescribing information (MIMS) (2002)

Perphenazine

Micromedex drug evaluation (2010)

Pertuzumab

Perjeta PI (2013)

Pethidine (see meperidine) (2008)

Phenobarbital

Palmer BF. Effectiveness of hemodialysis in the extracorporeal therapy of phenobarbital overdose. *Am J Kidney Dis*. 2000; 36:640-643. (2001)

Phenylbutazone

Micromedex drug evaluation (2010)

Pinaverium

Micromedex (2008)

Pioglitazone

Actos package insert (2000 & 2010)

Abe M, et al. Plasma concentration of pioglitazone in patients with type 2 diabetes on hemodialysis. *Therapeutic Apheresis and Dial*. 2009;13:238-239. (2011)

Piroxicam

Micromedex drug evaluation (2010)

Pitavastatin calcium

Livalo prescribing information (2011)

Pizotifen (also known as pizotyline)

Sandomigran prescribing information (MIMS) (2002)

Micromedex (2008)

Martindale (for synonym) (2008)

Plerixafor

Mozobil PI 2012

Pneumococcal vaccine

Prenvar prescribing information (2011)

Polidocanol

Asclera prescribing information (2011)

Polyethylene glycol

Davis GR, et al. Development of a lavage solution associated with minimal water and electrolyte absorption or secretion. *Gastroenterology* 1980; 78:991-995. (2002)

Porfimer

Photofrin prescribing information (2008)

Posaconazole

Courtney R, et al. Posaconazole pharmacokinetics, safety, and tolerability in subjects with varying degrees of chronic renal disease. *J Clin Pharmacol* 2005; 45:185-192. (2006)

Noxafil prescribing information (2010)

Pralatrexate

Folotyn prescribing information (2011)

Pramipexole

Micromedex drug evaluation (2010)

Mirapex prescribing information (2010)

Pramlintide

Symlin package insert (2006)

Prasugrel

Effient prescribing information (2010)

Pravastatin

Gehr TWB, et al. The pharmacokinetics of pravastatin in patients on chronic hemodialysis. *Eur J Clin Pharmacol*. 1997; 53:117-121. (2001)

Praziquantel

Pehrson PO, et al. Treatment with praziquantel in a patient with schistosomiasis and chronic renal failure. *Trans R Soc Trop Med Hyg*. 1983; 77:687-8. (2003)

Prazosin

Micromedex drug evaluation (2010)

Prednisolone

Frey FJ, et al. Nonlinear plasma protein binding and haemodialysis clearance of prednisolone. *Eur J Clin Pharmacol*. 1982; 23:65-74 (2001).

Pregabalin

Randinitis EJ, et al. Pharmacokinetics of pregabalin in subjects with various degrees of renal function. *J Clin Pharmacol*. 2003; 43:277-83. (2004)

Primaquine

Jaeger A, et al. Clinical features and management of poisoning due to antimalarial drugs. *Medical Toxicology* 1987;2:242. (2002)

Micromedex drug evaluation (2010)

Probenecid

Micromedex drug evaluation. (2002)

- Prochlorperazine
Micromedex drug evaluation (2010)
- Profenamine (see ethopropazine) (2008)
- Progesterone
Prometrium package insert. (2001)
- Proguanil
Tattersal JE, et al. Proguanil poisoning in a hemodialysis patient. Clin Nephrol. 1987; 28:104. (2003)
Micromedex drug evaluation (2010)
- Promethazine
Micromedex drug evaluation (2010)
- Propafenone
Micromedex drug evaluation (2010)
- Propofol
Micromedex drug evaluation (2010)
- Propoxyphene
Micromedex drug evaluation (2005)
- Propranolol
Micromedex drug evaluation (2010)
- Propylthiouracil
Cooper DS, et al. Pharmacology of prophythiouracil in thyrotoxicosis and chronic renal failure. Arch Intern Med. 1987; 147:785-786. (2002)
- Protriptyline
Micromedex drug evaluation (2010)
- Prucalopride succinate
Restoran (aka Resotran) PI (2013)
- Pseudoephedrine
Micromedex drug evaluation (2010)
- Pyrazinamide
Ahn C, et al. The effect of peritoneal dialysis on the plasma and peritoneal fluid concentration of isoniazid, pyrazinamide and rifampin. Manuscript reviewed for PDI. (2003)
- Pyridoxine
Leblanc M, et al. Folic acid and pyridoxal-5-phosphate losses during high-efficiency hemodialysis in patients without hydrosoluble vitamin supplementation. J Ren Nutr. 2000; 10:196-201. (2002)
- Pyzotyline
Drugdex drug evalutaion (2005)
- Quinagolide
Norprolac prescribing information (2006)
- Quinapril
Accupril prescribing information (2008)
Tsuruoka S, et al. Clearance of imidapril, an angiotensin-converting enzyme inhibitor, during hemodialysis in hypertensive renal failure patients: comparison with quinapril and enalapril. J Clin Pharmacol 2007; 47:259-263. (2008)
- Quinidine

- Micromedex drug evaluation (2010)
- Quinine
- Micromedex drug evaluation (2010)
- Rabeprazole
- Drugdex drug evaluation (2000)
- Raloxifene
- Evista prescribing information (2010)
- Raltegravir
- Giguere P, et al. Pharmacokinetics of darunavir, etravirine, and raltegravir in an HIV-infected patient on haemodialysis. AIDS 2009; 23, 740-2. (2011)
- Ranibizumab
- Lucentis prescribing information (2009)
- Ranitidine
- Tsuruoka S, et al. Rantidine clearance during hemodialysis with high-flux membrane: comparison of polysulfone and cellulose acetate hemodialyzers. Eur J Clin Pharmacol 2000; 56:581-583. (2002)
- Rasburicase
- Elitek package insert (2006)
- Reboxetine
- Drugdex drug evaluation (2003)
- Remifentanil
- Drugdex drug evaluation (2002)
- Repaglinide
- Marbury TC, et al. Pharmacokinetics of repaglinide in subjects with renal impairment. Clin Pharmacol Ther. 2000; 67:7-15. (2001)
- Reserpine
- Micromedex drug evaluation (2010)
- Ribavirin
- Kramer TH, et al. Hemodialysis clearance of intravenously administered ribavirin. Antimicrob Agents Chemother. 1990; 34:489-490. (2001)
- Micromedex drug evaluation (2010)
- Gupta SK et al. Pharmacokinetics, safety, and tolerability of ribavirin in hemodialysis-dependent patients. Eur J Clin Pharmacol. 2012 Apr;68(4):415-8. (2013)
- Rifabutin
- Bassilius N, et al. Pharmacokinetics and dosage adjustment of rifabutin in a haemodialysis patient. Nephrol Dial Transplant 2002; 17:531-2. (2003)
- Rifampin
- Ahn C, et al. The effect of peritoneal dialysis on the plasma and peritoneal fluid concentration of isoniazid, pyrazinamide and rifampin. Manuscript reviewed for PDI. (2003)
- Rifapentine
- Priftin prescribing information (2010)
- Rifaximin
- Xifaxan prescribing information (2005)
- Rilonacept
- Arcalyst prescribing information (2009)

- Rilpivirine HCl
Edurant prescribing information (2012)
Complera prescribing information (2012)
- Riluzole
Micromedex drug evaluation (2003)
- Rimantadine
Micromedex drug evaluation (2010)
- Ritonavir
Izzedine H, et al. Pharmacokinetics of ritonavir and saquinavir in a haemodialysis patient. Nephron 2001; 87:186-187. (2002)
Izzedine H, et al. Pharmacokinetics of ritonavir and nevirapine in peritoneal dialysis. Nephrol Dial Transplant 2001; 16:643. (2002)
Giguere P, et al. Pharmacokinetics of darunavir, etravirine, and raltegravir in an HIV-infected patient on haemodialysis. AIDS 2009, 23, 740-2. (2011)
- Rituximab
Rituxan package insert. (2001)
Jillella AP, et al. Treatment of a patient with end-stage renal disease with rituximab: pharmacokinetic evaluation suggests rituximab is not eliminated by hemodialysis. Am J Hematol. 2002; 71:219-22. (2004)
- Rivaroxaban
Xarelto prescribing information (2010)
- Rizatriptan
Maxalt prescribing information (2011)
- Roflumilast
Daliresp prescribing information (2012)
- Romidepsin
Istodax prescribing information (2011)
- Romiplostim
Nplate prescribing information (2011)
- Ropinirol
Requip package insert. (2006)
- Ropivacaine
Naropin package insert. (2002)
- Rosiglitazone
Aramwit P, et al. Pharmacokinetics of single-dose rosiglitazone in chronic ambulatory peritoneal dialysis patients. J Clin Pharm Ther 2008; 33:685-690. (2010)
Avandia prescribing information (2010)
- Rosuvastatin
Letter from AstraZeneca professional services (2004)
Crestor prescribing information (2008)
- Rotigotine
Neupro prescribing information (2008)
Micromedex drug evaluation (2010)
- Ruboxistaurin
Wise S. Effects of chronic renal failure on the pharmacokinetics of ruboxistaurin and its active metabolite 338522. Clin Pharmacokinet 2006; 45:297-303. (2008)

- Rufinamide**
Banzel prescribing information (2009)
Perucca E, et al. Rufinamide: clinical pharmacokinetics and concentration-response relationships in patients with epilepsy. Epilepsia 2008; 49:1123-41. (2009)
- Ruxolitinib**
Jakafi package information (2013)
- Sapropterin**
Kuvan prescribing information (2011)
- Saquinavir**
Izzedine H, et al. Pharmacokinetics of ritonavir and saquinavir in a haemodialysis patient. Nephron 2001; 87:186-187. (2002)
Taburet A-M, et al. Antiretroviral drug removal by haemodialysis. AIDS 2000; 14:902-903. (2001)
- Saxagliptin**
Onglyza PI (Canada 2010)
Onglyza PI (all versions, 2012)
Boulton DW et al. Influence of renal or hepatic impairment on the pharmacokinetics of saxagliptin. Clin Pharmacokinet. 2011 Apr;50(4):253-65. (2013)
- Sertindole**
Micromedex drug evaluation (2010)
Serdolect PI 2012
- Sertraline**
Micromedex drug evaluation (2010)
- Sevelamer**
Renagel package insert (2007)
- Sibutramine**
Micromedex (1999)
Meridia prescribing information (2010)
- Sildenafil**
Grossman EB, et al. The pharmacokinetics and hemodynamics of sildenafil citrate in male hemodialysis patients. Kidney Int 2004; 66:367. (2005)
- Silodosin**
Rapaflo prescribing information (2010)
- Simethicone**
Product information-Micromedex (2002)
- Simvastatin**
Zocor prescribing information (2010)
- Sirolimus**
Rapamune prescribing information (2008)
Lunardi G, et al. Temsirolimus in patients with renal cancer on hemodialysis. J Clin Oncol 2008; e-pub (2010) (includes sirolimus in paper)
- Sitagliptin**
Januvia prescribing information (2007)
- Sitaxsentan**

Dhaun N, et al. The pharmacokinetic profile of sitaxentan, a selective endothelin receptor antagonist, in varying degrees of renal impairment. Br J Clin Pharmacol 2007;July 17 epub. (2008)

Sodium cromoglycate

Micromedex (Martindale) and drug evaluation. (2002)

Sodium diatrizoate

Ueda J, et al. Permeability of iodinated and MR contrast media through two types of hemodialysis membrane. Eur J Radiol. 1999; 31:76-80. (2002)

Sodium picosulfate

Prepopik PI (2013)

Sodium polystyrene sulfonate

Micromedex drug evaluation. (2002)

Sodium thiosulfate

see Thiosulfate

Solifenacin

Vesicare package insert (2006)

Somatropin

Norditropin prescribing information (2008)

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- Trimetrexate
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- Trimipramine
Micromedex drug evaluation (2010)
- Trisodium citrate
Duraloc package insert (2012)
- Tropisetron
Micromedex drug evaluation. (2010)
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Micromedex (2007)

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Stelara prescribing information (2011)

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Vemurafenib

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Venlafaxine

Effexor prescribing information. (2010)

Vilazodone HCl

Viibryd prescribing information (2012)

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