

**Appendix Table 1.** List of diabetes medication, types, and DIN

<b>Diabetes Drug Type</b>	<b>Drug Identification Number (DIN)</b>
Short-acting insulin	Regular insulin (Humulin and Novolin) 01962639, 00889113, 01962655, 00889105, 00795879, 01959212, 01962647, 00889091, 01962663, 00889121, 00587737, 01959239, 02403447, 02241310, 00586714, 02415089, 01959220, 00733075
Rapid-acting insulins	Insulin aspart 02460408, 02460416, 02460424, 02520974, 02520982, 02265435, 02244353, 02245397, 02377209
	Insulin glulisine 02279460, 02279479, 02279487, 02294346
	Insulin lispro (Humalog) 02229704, 02470152, 02229705, 02403412, 02439611, 02240294, 02403420, 02240295, 02240297, 02403439, 02241283, 02469898, 02469901, 02469871, 02506564, 02506572, 02529254
Intermediate-acting insulin	Insulin isophane (Humulin N, Novolin N) 01962639, 00889113, 01962655, 00889105, 00795879, 01959212, 01962647, 00889091, 01962663,

	00889121, 01959239, 02403447, 02024306, 02024217, 02025248, 02024314, 02024322, 02024225, 02024268, 02024446, 02024403, 02024322, 02024225, 02024268, 02024233, 02024284, 02024314
<b>Long-acting insulins</b>	Insulin degludec  02467860, 02467879, 02467887, 02474875, 02474875
	Insulin detemir  02412829, 02271842
	Insulin glargine  02444844, 02461528, 02245689, 02251930, 02294338, 02526441, 02478293, 02478293, 02493373, 02441829
<b>Combination insulins</b>	Humalog Mix 75/25 (insulin lispro protamine-insulin lispro)  02240294, 02403420, 02240295
	Humalog Mix 50/50 (insulin lispro protamine-insulin lispro)  02240297, 02403439

	Humulin 70/30 (human insulin NPH-human insulin regular)  00795879, 01959212
	Novolin 70/30  02024217, 02025248
Biguanides	Metformin (Glucophage, Metformin Hydrochloride ER, Glumetza, Riomet, Fortamet)  02099233, 02162849, 02446065, 02162822, 02229517, 02231389, 02238827, 02242793, 02242794, 02246965, 02284782, 02284790, 02343606, 02343614, 02353377, 02353385, 02378841, 02378868, 02385341, 02385368, 02268493, 02300451, 02268507  Metformin-alogliptin (Kazano)  02417219, 02417227, 02417235
	Metformin-canagliflozin (Invokamet)  02455404, 02455412, 02455420, 02455439, 02455447, 02455455, 02477394, 02477408, 02477416, 02477424
	Metformin-dapagliflozin (Xigduo XR)  02449935, 02449943

	Metformin-empagliflozin (Synjardy) 02456575, 02456583, 02456591, 02456605, 02456613, 02456621
	Metformin-linagliptin (Jentadueto) 02403250, 02403269, 02403277
	Metformin-rosiglitazone (Avandamet) 02247085, 02247086, 02247087, 02248440, 02248441
	Metformin-saxagliptin (Kombiglyze XR) 02389169, 02389177, 02389185
	Metformin-sitagliptin (Janumet) 02333864, 02333872, 02416786, 02416794, 02416808
Dipeptidyl peptidase-4 (DPP-4) inhibitors	Alogliptin (Nesina) 02417189, 02417197, 02417200
	Alogliptin-metformin (Kazano) 02417219, 02417227, 02417235
	Alogliptin-pioglitazone (Oseni)

	02419300, 02419319, 02419327, 02419335, 02419343, 02419351
	Linagliptin (Tradjenta) 02370921
	Linagliptin-empagliflozin (Glyxambi) 02459752, 02459760
	Linagliptin-metformin (Jentadueto) 02403250, 02403269, 02403277
	Saxagliptin (Onglyza) 02333554, 02375842
	Sexagliptin (Apo-Sexagliptin) 02507471, 02507498,
	Sexagliptin (Sandoz-Sexagliptin) 02468603, 02468611
	Saxagliptin-metformin (Kombiglyze XR) 02389169, 02389177, 02389185
	Sitagliptin (Januvia) 02303922, 02388839, 02388847

	<p>Sitagliptin-metformin (Janumet and Janumet XR)</p> <p>02333856, 02333864, 02333872, 02416786, 02416794, 02416808</p>
Glucagon-like peptide-1 receptor agonists (GLP-1 receptor agonists)	<p>Dulaglutide (Trulicity)</p> <p>02448572, 02448580, 02448599, 02448602, 02530163, 02530171</p>
	<p>Exenatide (Byetta)</p> <p>02361809, 02361817</p>
	<p>Exenatide extended release (Bydureon)</p> <p>02448610, 02483203</p>
	<p>Liraglutide</p> <p>02437899, 02351064, 02474875</p>
	<p>Semaglutide</p> <p>02471469, 02471477, , 02523930, 02497581, 02497603, 02497611, 02522551, 02522578, 02522586, 02522594, 02522608, 02528509, 02528517, 02528525, 02528533, 02528541</p>
GLP-1 insulin combinations	<p>(Xultophy, Soliqua)</p> <p>02474875, 02478293</p>
Meglitinides	<p>Nateglinide (Starlix)</p>

	02245439, 02245440, 02245438
	Repaglinide 02239926, 02239925, 02239924, 02355663, 02355671, 02355698, 02424258, 02424266, 02424274, 02321475, 02321483, 02321491, 02354926, 02354934, 02354942, 02357453, 02357461, 02357488
Alpha-glucosidase inhibitor	Acarbose 02493780, 02493799, 02190885, 02190893, 02494078, 02494086
Sodium-glucose transporter (SGLT) 2 inhibitors	Dapagliflozin (Farxiga) 02435462, 02435470
	Dapagliflozin-metformin (Xigduo XR) 02449935, 02449943
	Canagliflozin (Invokana) 02425483, 02425491
	Canagliflozin-metformin (Invokamet) 02455404, 02455412, 02455420, 02455439, 02455447, 02455455, 02477394, 02477408, 02477416, 02477424
	Empagliflozin (Jardiance)

	02443937, 02443945
	Empagliflozin-linagliptin (Glyxambi) 02459752, 02459760
	Empagliflozin-metformin (Synjardy) 02456575, 02456583, 02456591, 02456605, 02456613, 02456621
	Ertugliflozin (Steglatro) empagliflozin- metformin (Synjardy) 02456575, 02456583, 02456591
Sulfonylureas	Glimepiride 02245272, 02245273, 02245274, 02269589, 02269597, 02269619
	Glimepiride-rosiglitazone (Avandaryl) 02258781, 02258803, 02258811
	Gliclazide 02483300, 02483319, 02245247, 02297795, 02407124, 02363518, 00765996, 02242987, 02356422, 02248210, 02287072, 02155850, 02248453, 02429764, 02429772, 02423286, 02423294, 02229519, 02438658, 02449765, 02336316, 02294400, 02254719, 02461323, 02461331, 02439328, 02463571, 02238103



	<p>Glyburide</p> <p>01913654, 01913662, 02234514, 00720941, 01959352 02350459, 02350467, 02485664, 02236734, 01913670, 01913689 02224550, 02224569, 00012599, 00454753, 01987836, 01987534</p>
	<p>Chlorpropamide</p> <p>00399302, 00312711, 00024708, 00024716</p>
	<p>Tolbutamide</p> <p>00013889, 00021849, 00012602, 00012610, 00312762, 00156663, 00431168</p>
Thiazolidinediones	<p>Rosiglitazone</p> <p>02403366, 02403374, 02403382, 02241112, 02241113, 02241114</p>
	<p>Rosiglitazone-glimepiride (Avandaryl)</p> <p>02258781, 02258803, 02258811</p>
	<p>Pioglitazone</p> <p>02339587, 02339595, 02391600 , 02302861, 02302888, 02302896 , 02374587, 02374595, 02302942, 02302950 , 02302977, 02365529, 02365537, 02397307, 02326477, 02326485, 02326493, 02303124, 02303132, 02303140, 02389290,</p>

	02389304, 02389312, 02242572, 02242573, 02242574
	Pioglitazone-alogliptin (Oseni)  02419300, 02419319, 02419327, 02419335, 02419343, 02419351