**Table 1.** Auditory/vestibular side effects of FDA approved medications for diabetes (n = 83). NOTE: information is current as of 11/1/2021). Compiled by Robert M. DiSogra, AuD and Michelle Mcelhannon, PharmD

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Actos pioglitazone oral no no blurred vision, changes in vision,

 visual disturbances, weakness

Actoplus MET pioglitazone + oral ear congestion no blurred vision, weakness

metformin)

Actoplus MET XR pioglitazone + oral ear congestion no blurred vision, weakness

metformin)

Adlyxin lixisenatide injection no no weakness

Admelog

 (see Humalog)

Afrezza insulin powder inhaled no no blurred vision, lightheadedness

Amaryl glimepiride oral no no no

Apidra insulin glulisine injection ear congestion, no blurred vision, lightheadedness

ears pounding (when getting up suddenly from a lying or sitting position), weakness

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Avandamet rosiglitazone + oral no no blurred vision, weakness

metformin

Avandaryl rosiglitazone + oral ear congestion no blurred vision, weakness

glimepiride

Avandia rosiglitazone oral no no no

Basaglar insulin glargine injection no no blurred vision, lightheadedness, swollen

eyelids

Bydureon BCise exenatide injection no no lightheadedness, weakness

 (Ext. Rel.)

Byetta exenatide injection no no blurred vision, lightheadedness, weakness

Cycloset bromocriptine oral ear tingling vertigo lightheadedness (when getting up from a

lying or sitting position), vision changes,

 visual disturbances, visual field defect,

weakness

DiaBeta glyburide oral no no feeling unsteady, weakness

Diabinese chlorpropamide oral no spinning feeling unsteady, weakness

sensation

Duetact pioglitazone + oral ear congestion no blurred vision, weakness

Glimepiride

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Exubera insulin human injection otitis media no no

powder ear pain

Farxiga dapagliflozin oral no no blurred vision

Fiasp aspart recombi- injection ear congestion no blurred vision, facial swelling,

 vant lightheadedness

Fortamet metformin oral no no no

 (Ext. Rel.)

Glipizide XL glipizide oral no vertigo gait abnormality

 (see Glucotrol

 and Glcotrol XL)

Glucophage metformin oral no no no

Glucophage XR metformin oral no no no

Glucotrol glipizide oral no vertigo gait abnormality

Glucotrol XL glipizide oral no vertigo gait abnormality

Glucovance glyburide + oral no no blurred vision, weakness

metformin

Glumetza metformin oral no no no

Glycet miglitol oral no no no

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Glycron glyburide oral no vertigo blurred vision

Glynase Press Tabglyburide oral no no difficulty focusing eyes, feeling unsteady,

stupor, swollen eyelids, weakness

Glyxambi empagliflozin/ oral ear congestion no blurred vision, swollen eyelids, unusual

 linagliptin weakness

Humalog lispro U-100 and injection no no blurred vision, lightheadedness (when

U -200 getting up from a lying or sitting position),

puffiness around the eyes, weakness

Humulin N insulin isophane injection no no blurred vision, swollen eyelids, unusual

 weakness

Invokamet canagliflozin + oral no no falls, lightheadedness when getting up

 metformin suddenly

Invokamet XR canagliflozin + oral no no falls, lightheadedness when getting up

 metformin suddenly

Invokana canagliflozin oral no no no

Janumet sitagliptin + oral no no blurred vision, swollen eyelids, weakness

metformin

Janumet XR sitagliptin + oral no no blurred vision, swollen eyelids weakness

metformin

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Januvia sitagliptin oral no no no

Jardiance empaglifloxin oral no no blurred vision, lightheadedness (when

 getting up suddenly from a lying or sitting

 position), weakness

Jentadueto linagliptin + oral no no blurred vision

metformin

Jentadueto XR linagliptin + oral no no blurred vision

metformin

Juvisync simvastatin + oral no vertigo confusion

Sitagliptin

Kazano alogliptin + oral ear congestion, no blurred vision, weakness

Metformin ear pounding

Kombiglyze XR saxagliptin + oral ear congestion no blurred vision

metformin

Lantus insulin glargine injection no no blurred vision, weakness

Levemir insulin detemir injection no no no

[rDNA origin]

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Lyumjev lispro insulin injection no no blurred vision, confusion, lightheadedness

 (when getting up suddenly from a lying or

 sitting position), swollen eyelids, unusual weakness

Metaglip metformin + oral ear pounding no blurred vision, weakness

glipizide

Micronase glyburide oral no no feeling unsteady, weakness

Nesina alogliptin oral ear congestion no blurred vision, weakness

Novolog insulin aspart injection no no blurred vision, lightheadedness, weakness

Onglyza saxagliptin oral ear congestion no blurred vision, puffy or swollen eyelids

Oseni alogliptin + oral ear congestion no blurred vision

pioglitazone

Ozempic semaglutide injection no no blurred vision

PrandiMet rapaglinide + oral ear congestion no blurred vision

metformin

Prandin repaglinide oral no no no

Precose acarbose oral no no no

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Qtern dapaglinide + oral ear congestion no blurred vision, lightheadedness

saxagliptin (when getting up suddenly from a lying or

 sitting position), swollen eyelids

Riomet metformin liquid oral no no lightheadedness

Rybelsus semglutide oral no no change in vision, fatigue

Saxenda liraglutide injection no no fatigue

Segluromet ertugliflozin + oral no no no

metformin

Semglee insulin glargine injection no no visual impairment (rare)

Soliqua lixisenatide/ injection ear congestion no blurred vision, lightheadedness

insulin glargine (when getting up suddenly from a lying or

sitting position), swelling of the eyelids or around the eyes

Starlix nateglinide oral no no no

Steglatro ertugliflozin oral no no blurred vision, lightheadedness

Steglujan ertuglifloxin + oral no no blurred vision, lightheadedness

sitagliptin (when getting up suddenly from a lying or

sitting position), sunken eyes, swelling of the eyelids or around the eyes

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Symlin pramlintide injection no no blurred vision, weakness

Synjardy empaglifloxin + oral no no blurred vision, lightheadedness (when

 metformin getting up suddenly from a lying or

 sitting position)

Synjardy XR empaglifloxin + oral no no blurred vision, lightheadedness (when

 metformin getting up suddenly from a lying or

 sitting position)

Tolinase tolazamide oral no no weakness

Tol-Tab tolbutamide oral tinnitus no no

Toujeo NPH insulin glargine injection no no blurred vision, lightheadedness, puffiness

 around the eyes

Tradjenta linagliptin oral no no blurred vision, weakness, puffy or swollen

 eyelids

Tresiba insulin degludec injection no no no

Trijardy XR empagliflozin + oral no no no

linagliptin +

metformin

Trulicity dulagulitide injection no no facial edema, weakness

**Brand Generic Route Auditory Vestibular Balance Assessment Interference**

Victoza liraglutide injection ear pounding no blurred vision, weakness

WelChol colesevelam oral ear pounding no blurred vision, weakness

Xigduo XR dapaglifloxin + oral no no blurred vision, lightheadedness (when

metformin getting up suddenly from a lying or sitting position), swelling of the eyelids

Xultophy insulin injection ear congestion no blurred vision, confusion, lightheadedness

degludec + (when getting up suddenly from a lying or

liraglutide sitting position), [numbness](https://www.drugs.com/mcs/numbness) or tingling in the feet, unusual weakness

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