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Title: Comprehensive real-world assessment of marketed medications to guide Parkinson's drug discovery

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Supplementary material 1 ICD 9 and 10 codes used to define Parkinson's disease

| Code | Name | Vocabulary |
|--------|---|------------|
| G21.1 | Other drug-induced secondary parkinsonism | ICD10 |
| G21.3 | Postencephalitic parkinsonism | ICD10 |
| G21 | Secondary parkinsonism | ICD10 |
| G21.9 | Secondary parkinsonism, unspecified | ICD10 |
| G21.19 | Other drug induced secondary parkinsonism | ICD10 |
| G21.8 | Other secondary parkinsonism | ICD10 |
| G21.4 | Vascular parkinsonism | ICD10 |
| G21.2 | Secondary parkinsonism due to other external agents | ICD10 |
| G21.11 | Neuroleptic induced parkinsonism | ICD10 |
| G22 | Parkinsonism in diseases classified elsewhere | ICD10 |
| G20 | Parkinson disease | ICD10 |
| 332 | Parkinson's disease | ICD9 |
| 332.1 | Secondary parkinsonism | ICD9 |

Supplementary material 2 Beta adrenoreceptor modulation medications by Anatomical Therapeutic Chemical (ATC) Classification System.

| Beta blocking agents, non-selective | Alpha and beta blocking agents | Beta blocking agents, selective | Selective beta-2-adrenoreceptor agonists |
|--|---------------------------------------|--|---|
| Alprenolol | Carvedilol | Acebutolol | Bitolterol |
| Bopindolol | Labetalol | Atenolol | Carbuterol |
| Bupranolol | | Betaxolol | Clenbuterol |
| Carteolol | | Bevantolol | Fenoterol |
| Cloranolol | | Bisoprolol | Formoterol |
| Mepindolol | | Celiprolol | Hexoprenaline |
| Nadolol | | Epanolol | Indacaterol |
| Oxprenolol | | Esmolol | Isoetarine |
| Penbutolol | | Landiolol | Olodaterol |
| Pindolol | | Metoprolol | Pirbuterol |
| Propranolol | | Nebivolol | Procaterol |
| Sotalol | | Practolol | Reproterol |
| Tertatolol | | S-atenolol | Rimiterol |
| Timolol | | Talinolol | Salbutamol |
| | | | Salmeterol |
| | | | Terbutaline |
| | | | Tretoquinol |
| | | | Tulobuterol |