1. We would like to request a list of all HIV patients \geq 50 years of age that had a documented fall (per ICD-10 code) between the period of September 1, 2012 to August 31, 2017.

As a control, we would like to have age and time matched patients that did not fall (nor had altered mental status).

2. We would like to request a list of all HIV patients \geq 50 years of age that had documented Altered Mental Status (per ICD-10 code) between the period of September 1, 2012 to August 31, 2017.

As a control, we would like to have age and time matched patients that did not have altered mental status (nor falls?).

The data that we would like from these patients (at the time of fall or altered mental status) are:

- MRN¹
- Age (years)
- Gender
- Race/Ethnicity
- Patient taking \geq 5 medications (yes or no)
- Charlson index²
- VACS index³
- CD4 T cell count (cells/mm3; current)
- CD4 T cell count (cells/mm3; nadir)
- HIV viral load (copies/mL)
- Duration of HIV infection (years)
- Active antiretroviral medications
- Number of medications total (non-antiretrovirals)
- Number of BEERS medications⁴
- Benzodiazepines⁵ (yes or no)
- Narcotics⁶ (yes or no)

¹ MRN: we are okay with withholding MRN while IRB approval is pending

²Charlson index (yes or no for presence of these):

- Diabetes
- Diabetes with end-organ damage
- Mild liver disease
 - Diagnosis of chronic liver disease (without diagnosis of decompensated cirrhosis)
- Moderate to severe liver disease
 - Diagnosis of chronic cirrhosis
- Any leukemia, lymphoma, or localized solid tumor
- Metastasis solid tumor
- AIDS
- Moderate to severe chronic kidney disease (CKD)
 - GFR (mL/min/1.73m2) 30-59 = moderate

- GFR <29 = severe
- CHF
- Myocardial infarction
- COPD
- Peripheral vascular disease
- CVA or TIA
- Dementia
- Hemiplegia
- Connective tissue disease
- Peptic ulcer disease

²VACS index:

- Hemoglobin (g/dL)
- FIB-4 Index (AST, platelet count, ALT)
- eGFR (mL/min)
- Hepatitis C co-infection
 - Yes or no

⁵ Benzodiazepines

- Alprazolam
- Clonazepam
- Diazepam
- Flurazepam
- Lorazepam
- Midazolam
- Triazolam
- Clorazepate
- Estazolam
- Quazepam
- Temazepam
- Chlordiazepoxide
- Clobazaam
- Oxazepam

⁶Narcotics

- Opium
- Heroin
- Oxycodone
- Hydrocodone
- Morphine
- Hydromorphone
- Fentanyl
- Codeine
- Methadone
- Meperidine
- Oxymorphone

- Tramadol
- Carfentanil
- Buprenorphine

⁴ 2015 AGS BEERS Criteria for Potentially Inappropriate Medication Use in Older Adults

Anticholinergics	
First-generation a	ntihistamines
Brompheniramin	e
Carbinoxamine	
Chlorpheniramin	e
Clemastine	
Cyproheptadine	
Dexbromphenira	mine
Dexchlorphenira	mine
Dimenhydrinate	
Diphenhydramin	e (oral)
Doxylamine	
Hydroxyzine	
Meclizine	
Promethazine	
Triprolidine	
Antiparkinsonian a	
Benztropine (ora	d)
Trihexyphenidyl	
Antispasmodics	
Atropine (exclud	
Belladonna alkal	oids
Clidinium-Chlord	liazepoxide
Dicyclomine	
Hyoscyamine	
Propantheline	
Scopolamine	
Antithrombotics	
Dipyridamole, ora	
	to the extended-
	tion with aspirin)
Ticlopidine	
Anti-infective	
Nitrofurantoin	
Cardiovascular	
Peripheral alpha-1	hlockere
Doxazosin	DIOCKETS

Prazosin Terazosin Central alpha blockers Clonidine Guanabenz Guanfacine Methyldopa Reserpine (>0.1 mg/d) Disopyramide

Dronedarone

Digoxin

Nifedipine, immediate release Amiodarone

Antidepressants, alone or in combination Amitriptyline Amoxapine Clomipramine Desipramine Doxepin >6 mg/d Imipramine Nortriptyline Paroxetine Protriptyline Trimipramine Antipsychotics, first- (conventional) and second- (atypical) generation

Barbiturates Amobarbital Butabarbital Butalbital Mephobarbital Pentobarbital Phenobarbital Secobarbital Benzodiazepines Short- and intermediate- acting Alprazolam Estazolam Lorazepam Oxazepam Temazepam Triazolam

Long-acting Clorazepate Chlordiazepoxide (alone or in combination with amitriptyline or clidinium) Clonazepam Diazepam Flurazepam Quazepam Meprobamate Nonbenzodiazepine, benzodiazepine receptor agonist hypnotics Eszopiclone Zolpidem Zaleplon

Ergoloid mesylates (dehydrogenated ergot alkaloids) Isoxsuprine Endocrine Androgens Methyltestosterone Testosterone Desiccated thyroid

Estrogens with or without progestins

Growth hormone

Insulin, sliding scale

Megestrol

Sulfonylureas, long-duration Chlorpropamide

Glyburide

Gastrointestinal Metoclopramide

Mineral oil, given orally

Proton-pump inhibitors

Pain medications Meperidine Non-cyclooxygenase-selective NSAIDs, oral: Aspirin >325 mg/d Diclofenac Diflunisal Etodolac Fenoprofen Ibuprofen Ketoprofen Meclofenamate Mefenamic acid Meloxicam Nabumetone Naproxen Oxaprozin Piroxicam Sulindac Tolmetin Indomethacin

Ketorolac, includes parenteral

Pentazocine

Skeletal muscle relaxants Carisoprodol Chlorzoxazone Cyclobenzaprine Metaxalone Methocarbamol Orphenadrine Genitourinary Desmopressin