ONLINE SUPPLEMENT

1. eFigure: CRANIUM Intervention Details

2. eBox: Clinical Vignette

3. eAppendix: CRANIUM Tools

- a. Medication Algorithm
- b. Interactions with Psychotropics
- c. Urgent Care Referral Guidelines
- d. Local Primary Care Clinics
- e. CVD Risk Profiles of Antipsychotic Medications

eFigure: CRANIUM intervention details

Patient-centered team	Population-based care	Screening protocols	Treatment protocols
Team member main roles & responsibilities: Psychiatrist Watch 1-hour on-line education video	Registry The psychiatrist and case manager will receive a	Use of a stepped-care approach to ensure all patients obtain screening: • Step 1: Registry with missing labs	User-friendly medication algorithm for management of abnormalities (see eAppendix). This tool is
Receive 1-pg algorithm for their own use Review monthly registry Attend quarterly panel meetings	registry with missing labs and flagged abnormalities monthly	given to providers. • Step 2: Peer Navigator will assist patients to lab facility.	helpful for patients with difficulty engaging in primary care (See eBox1).
Treat CVD risk factors per protocol Consulting primary care provider Attend quarterly panel meetings	Panel management The patient-centered team	Step 3: Clinic Nurse draws labs on-site	On-line education video on treatment protocols
Clinical decision support via eReferral (1) Case manager Review monthly registry	will attend quarterly panel management meetings. • Patients missing labs will	Stepped-care Approach to Obtain Cardiometabolic Screening Labs On-Site Labs by RN	Additional supports: Hard copies and on-line access (see
 Attend quarterly panel meetings Identify patients who would benefit from peer navigator assistance. 	be discussed for adherence to screening protocols.	Peer navigator accompanies to lab	Interactions with psychotropics Urgent care referral guidelines
Peer navigators Distribute monthly registry with lab slips Provide navigation as needed.	Patients with CVD risk factors will be discussed for adherence to treatment protocols.	MD receives registry of missing labs	Local primary care clinics CVD risk profiles of antipsychotic medications (2)

(1) Chen, A. H., Murphy, E. J., & Yee Jr, H. F. (2013). eReferral--a new model for integrated care. The New England journal of medicine, 368(26), 2450.

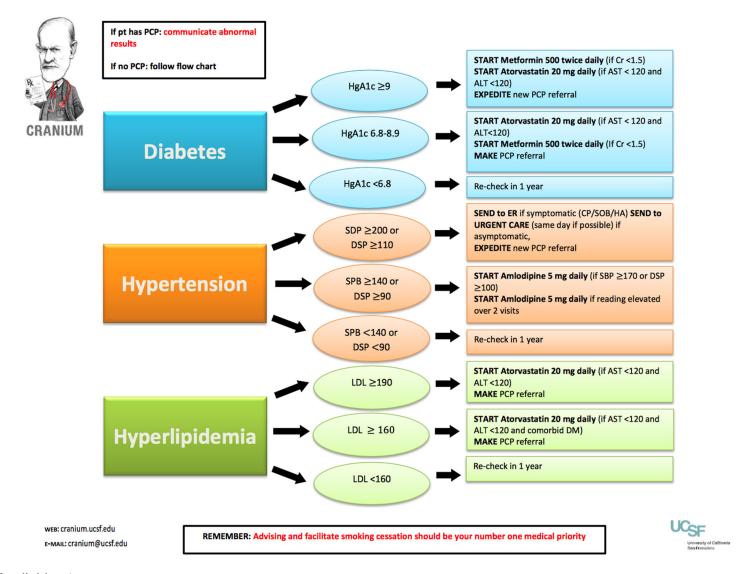
(2) Mangurian, C., Newcomer, J. W., Modlin, C., & Schillinger, D. (2016). Diabetes and cardiovascular care among people with severe mental illness: a literature review. Journal of general internal medicine, 31(9), 1083-1091.

eBox: Clinical Vignette

Ms. Chen is a 54-year-old woman with schizophrenia and cocaine dependence prescribed risperidone. At a prior visit, psychiatrist noted elevated blood pressure and referred to primary care. Based on her delusions, however, she refused primary care. As part of CRANIUM, her psychiatrist checks her blood pressure at regular visits. Ms. Chen has a blood pressure reading of 160/90, and then the following month has a reading even higher (180/98). The psychiatrist checks the CRANIUM treatment algorithm posted by the blood pressure machine and notes that medication is indicated. Because Ms. Chen is unlikely to go to primary care, the psychiatrist talks to the patient about the importance of blood pressure control and, using the algorithm, he writes his first amlodipine prescription. He then emails the CRANIUM primary care eConsultant to discuss the decision. Upon return to the clinic for the next visit, the patient's blood pressure was 145/80.

eAppendix: CRANIUM Tools

1. Medication Algorithm



Available at:

https://cranium.ucsf.edu/sites/cranium.ucsf.edu/files/CRANIUM%20Flow%20Chart%20for%20CRANIUM%20M etabolic%20Guidelinesv6.pdf

CRANIUM-Interactions with CPHS Formulary Psychiatric Drugs* January 14, 2015

No absolute contraindications with any of these medications

METFORMIN

Antidepressants

- . Bupropion (Wellbutrin): Metformin may increase serum concentration of buproprion
- · Fluoxetine (Prozac): May increase risk of hypoglycemia with metformin

Mood Stabilizers

· Lamotrigine (Lamictal): Metformin may increase serum concentration of lamotrigine

Other

- Atenolol (Tenormin) and Propranolol (Inderal): May alter glucose metabolism, prolong hypoglycemia, mask hypoglycemic symptoms
- Levothyroxine (T4, Synthroid) & Liothyronine (T3, Cytomel): May decrease hypoglycemic efficacy
 of metformin
- Nicotine replacement: Nicotine may increase metformin levels and risk of lactic acidosis

AMLODIPINE (Norvasc)

Antipsychotics

. Aripiprazole (Abilify): Amlodipine may increase the serum concentration of aripiprazole

Antidepressants

- Duloxetine (Cymbalta) & Flucoxamine (Luvox): Amlodipine may increase orthostatic hypotensive effect of these medications
- . MAO Inhibitors: May increase the hypotensive efficacy of amlodipine.

Mood Stabilizers

 Carbamazepine (Tegretol) & oxcarbazepine (Trileptal): May decrease the hypotensive efficacy of amlodipine

Other

. Methylphenidate (Ritalin): May diminish the antihypertensive efficacy of amlodipine

ATORVOSTATIN (Lipitor)

Antipsychotics

• Aripiprazole (Abilify): Atorvostatin may increase the serum concentration of Aripiprazole

Antidepressants

Fluoxetine (Prozac), Fluvoxamine (Luvox), and Nefazodone (Serzone): May increase statin level and increase risk of myopathy and rhabdomyolysis

Mood Stabilizers

• Carbamazepine (Tegretal) & Oxcarbazepine (Trileptal): May diminish antihyperlipidemic efficacy

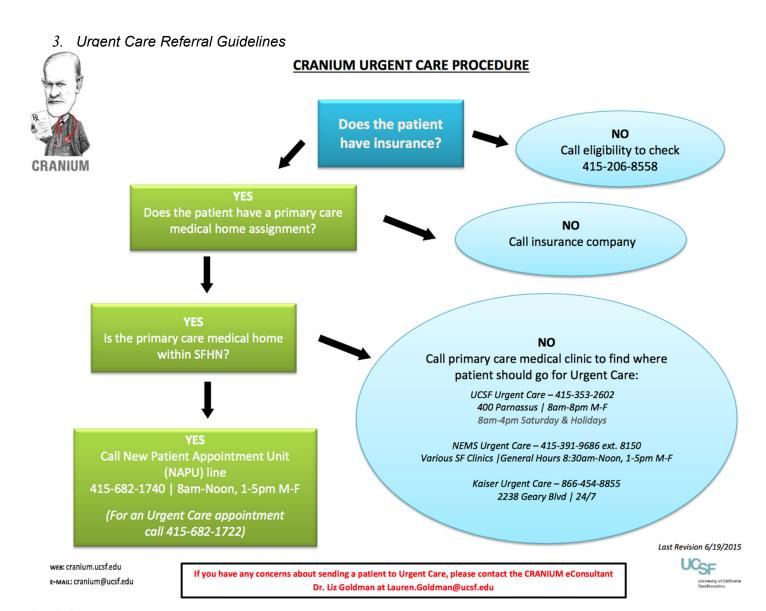
Other

- Atenolol (Tenormin) and Propranolol (Inderal): May decrease antihyperlipidemic efficacy
- · Naloxegol (Movantic): Atorvostatin may increase concentration of naloxegol.

*Interactions between metformin, amlodipine, and atorovstatin were checked against all medication on the CBHS formulary (http://www.sfdph.org/dph.files/CBHSdocs/DPHFormularyComparisonforPsychiatricMedicationsDec2013.pdf) on Epocrates (http://online.epocrates.com, January 13, 2015) and Lexicomp (http://online.lexi.com/crisql/servlet/crionline, December 1, 2014)

Available at:

https://cranium.ucsf.edu/sites/cranium.ucsf.edu/files/CRANIUM%20medication%20interactions.pdf



Available at:

https://cranium.ucsf.edu/sites/cranium.ucsf.edu/files/CRANIUM%20Flow%20Chart%20for%20CRANIUM%20Urgent%20Care%20Guidelines 0.pdf



CRANIUM Primary Care Medical Homes Guide Date Prepared 11/4/14

Chinatown Public Health Center 1490 Mason Street (at Broadway) (215) 394-7600 Cury Senior Center 333 Turk St (at Leavenworth) (415) 385-2274 Haight Ashbury Free Clinics 1735 Mission St (at 14" St)" (Multiple Locations) (415) 285-2525 General Medical Clinic at SFGH 1001 Potero Ave (at 23" St) (415) 208-8494 Maxine Hail Health Center 1301 Pierce Street (at Eliis) (415) 298-21300 Coean Park Health Center 1351 24th Avenue (at Judah & Irving) (415)-685-3022 Molecular (195) 685-1800	SF Health Network Clinics	Non SF Health Network Clinics		
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- If the patient's medical home is assigned to a San Francisco Health Network clinic by their insurance,
- call the New Patient Assessment Unit (415-682-1740) to assist in expediting appointment. If the patient's medical home is outside of San Francisco Health Network, please call assigned clinic 2. directly.

If the patient has no assigned medical home or it is unknown, call their insurance.

WEB: cranium.ucsf.edu E-MAIL: cranium@ucsf.edu



Available at:

5. CVD Risk Profiles of Antipsychotic Medications

Antipsychotic Medication Side Effects (1)

Class	Generic Name	Trade Name	Metabolic abnormalities ^µ	EPS/TD¥	Hyperprolactinemia
Second Generation Antipsychotics	Aripiprazole	Abilify	+	++	+
	Asenapine	Saphris	Unknown	Unknown	Unknown
	Clozapine	Clozaril	++++	+	+
	lloperidone	Fanapt	Unknown	Unknown	Unknown
	Lurasidone	Latuda	Unknown	Unknown	Unknown
	Olanzapine†	Zyprexa	++++	++	++
	Paliperidone†	Invega	+++	+++	++++
	Quetiapine†	Seroquel	+++	+	+
	Risperidone†	Risperdal	+++	+++	++++
	Ziprasidone	Geodon	+	++	++
Commonly Used First Generation Antipsycho	Chlorpromazine	Thorazine	++++	++	+++
	Fluphenazine†	Prolixin	++	++++	++++
	Haloperidol†	Haldol	++	++++	++++
	Perphenazine	Trilafon	+++	+++	+++

^{+ =} minimal risk ++ = low risk

Sources: The primary source for all ratings is The 2009 Schizophrenia PORT Psychopharmacologic Treatment Recommendations and Summary Statements (Buchanan 2009). Since no single source covers all of the side effects for all drugs, additional sources for specific side effects include: Weight/metabolic (Newcomer 2005, Allison 1999, Nasrallah 2009), EPS/TD (Sadock 2007, Miyamoto 2008, Nasrallah 2009), and Hyperprolactinemia (Bushe 2008). Expert consultation was used when sources conflicted.

(1) This table originally published in Mangurian, C., Newcomer, J. W., Modlin, C., & Schillinger, D. (2016). Diabetes and cardiovascular care among people with severe mental illness: a literature review. Journal of general internal medicine, 31(9), 1083-1091.

Available at:

https://integration.ucsf.edu/tools-clinicians#3-Table-1-Antipsychotic-Medication-Side-Effects

^{+++ =} moderate risk ++++ = high risk

[†] Long-acting injectables are assumed to have the same side effect profile as the oral preparations. However, some advantages for long-acting preparations due to more uniform serum concentrations may be possible.

[&]quot;Given the significant overlap in risk, weight gain, lipid abnormalities, and diabetes were combined into one category.

^{*} EPS = Extrapyramidal symptoms; TD = tardive dyskinesia.