and psychotomimetic side effects. In the cases described herein, we suggest that rapid infusion of S-(-)-ketamine may offer less tolerability compared to the racemic formulation. However, the infusion rate used to treat these patients may explain, at least in part, the poor tolerability observed. Therefore, we maintain that ketamine administration should only be performed in the inpatient setting, with supporting services and monitoring available, using a slow infusion over at least 40 minutes.

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References


An index to examine the sexual HIV risk of psychiatric service users based on sexual partners

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Numerous studies report higher HIV infection rates among psychiatric patients than in the general population. Relative to other HIV-affected populations, they have higher rates of HIV-related risk behaviors in fewer sexual occasions, including multiple partners, partners of unknown or positive HIV status, sex in exchange for money, shelter or goods, and low condom use rates. We present a new HIV risk index (RI) that takes into account differential risk associated with these factors.

Anal/vaginal receptive sex is riskier than insertive practices. Sex acts with partners of unknown/positive HIV status are riskier than those with HIV-negative partners, regardless of partner type. Lastly, sex acts with steady, casual, and exchange partners are associated with different HIV risk.

Our RI assigns differential risk to each sex act and sums risk across sex acts. The differential risk consists of three risk coefficients: 1) partner (type and HIV status); 2) sexual act (insertive or receptive) per sex occasion; and 3) anal sex (insertive or receptive) per sex occasion. Risk coefficients for vaginal/analex directionality are based on CDC transmission risk values, while coefficients proposed for partner type were determined on the basis of expert opinion and face validity (Table 1).

RI is estimated for each sex partner (Ri); the sum of all Rins corresponds to the total RI score. We provide three examples to demonstrate the new RI in comparison to focusing only on condomless sex proportions.

Example 1. A man had four anal sex acts, one insertive and three receptive, all condomless, with a casual male HIV-unknown partner. Taking into account the three risk coefficients, this person would have an RI = 0.90*(0.11*1 + 1.38*3) = 3.83. Based solely on the proportion of condomless sex occasions, this person’s risk would be classified as 100%.

Example 2. A man had three vaginally insertive acts, all condomless, with a casual HIV-negative partner. This person would have an RI = 0.10*(0.04*3) = 0.01. His risk...
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considerably less risk.

Example 3. A woman had sex with two male partners, steady HIV-negative and exchange HIV-unknown. The one sex occasion with the steady partner was condomless; with the exchange partner, she had seven sex occasions, of which one was condomless vaginal and three were condomless anal (total sex occasions = 8; condomless sex occasions = 5). Thus, RI1 (Partner 1) = 0.01*(0.08*1) = 0.001; RI2 (Partner 2) = 0.90*(0.01*1 + 1.38*3) = 3.74; RI Total = 0.001 + 3.74 = 3.74. The proportion of condomless sex occasions would be 62.5%. Relative to Example 1, the RI shows this person’s risk approximating his, though the proportion of condomless occasions shows her to be at considerably less risk.

Using our RI, possible misclassifications of risk based solely on the proportion of condomless sex occasions were identified. RI offers greater precision in estimating risk within psychiatric and potentially other populations now that Brazil is considering pre-exposure prophylaxis (PrEP – PrEPBrasil.com.br) for those at high risk. Additional behavioral and infection rate data are needed to further differentiate and validate high risk.

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Current inpatient prescription practices for the treatment of schizophrenia in public hospitals of Minas Gerais, Brazil


Schizophrenia is a chronic disorder with high potential to incapacitate patients for social life and participation in the workforce. The continuous use of antipsychotics has enabled a reduction in length of hospital stay and in number of relapses, allowing patients to remain in the community for longer. As a consequence, economic costs and burden are reduced. The choice of antipsychotic agent potentially affects clinical outcomes. 1

In the context of the public health system of the state of Minas Gerais, Brazil, hospital treatment of schizophrenia is currently directed to the management of relapses, usually consisting of short-term hospitalizations followed by referral to outpatient care. 2 Since research on current pharmacotherapy of schizophrenia in Brazil is scarce, our study aims to describe prescription patterns for schizophrenia in the setting of public hospital care.

The study sample comprised 1,928 patients admitted for schizophrenia to three public psychiatric hospitals in Minas Gerais (Instituto Raul Soares, Hospital Galba Velloso, and Centro Hospitalar Psiquiátrico de Barbacena) between 2010-2014. In these hospitals, both typical and atypical antipsychotic agents were routinely available for inpatients. However, the prescription of atypicals required additional paperwork and their continuation after discharge was possible, but not advocated. 3 To analyze psychopharmacological prescribing practices in this sample, we conducted a detailed analysis of patients’ prescriptions on the day before their discharge from hospital.

Typical antipsychotics (haloperidol, chlorpromazine, thio-ridazine, levomepromazine, trifluoperazine) were the most frequently prescribed drugs; among the atypicals, risperidone was preferred. Similar results were found by Machado et al. 4 in their study, conducted in the emergency department of a Brazilian public general hospital in the state of Paraná. (We were unable to find other reports of a similar nature in the literature.) Atypical antipsychotics are considered first-line choices by some, 5,6 but not all, 7 clinical guidelines, and there is a sustained debate on their economic advantages in developing countries. 8 Although clozapine has proven useful in reducing readmission risks in schizophrenia, 9 it was used in only 4.2% of admissions in our sample, a prevalence lower than that reported internationally (8-25%). 10,11