Dr. Graham: Switching patients back to antipsychotic monotherapy from polypharmacy

When and why to initiate antipsychotic polypharmacy, and with which agents

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r. C, age 31, who has a 7-year history of schizophrenia and is currently on perphenazine, 24 mg twice a day, presents for psychiatric admission after experiencing paranoid delusions. Notable symptoms include delusions of reference and persecution, along with affective flattening and intermittent suicidal ideation. Perphenazine is tapered, and he is started on quetiapine, titrated to 600 mg/d.

Past antipsychotic trials include aripiprazole, olanzapine, paliperidone, haloperidol, and ziprasidone. Because of his refractory symptoms and tolerability issues with other antipsychotics, Mr. C is switched to clozapine, 400 mg/d. His symptoms improve, but he experiences dose-limiting sialorrhea. Risperidone, 1 mg/d, is added to clozapine, which helps his psychosis and improves his functional status. Additionally, Mr. C develops enough insight to recognize his delusions and use skills learned in psychotherapy to cope with them.

Antipsychotic polypharmacy (APP), the concurrent use of ≥2 antipsychotics, is a topic of debate among mental health care providers. Studies indicate the prevalence of APP can reach upwards of 40%, with 1 systematic review citing more recent median APP prevalence in North America as 17%, an increase from a median of 12.7% in the

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1980s.1 Other studies cite more recent figures as around 20%.23

The literature lists several reasons for use of long-term APP, including:

- incomplete cross-titration
- · accidental continuation of APP that was intended to be temporary
- monotherapy failure
- mitigation or enhancement of effects of other antipsychotics (Table 1).1,4

factors include direct-toconsumer advertising, external pressures to decrease hospital stays, and low doctor-to-patient ratios.⁵ Although it can take as long as 16 weeks to see clinically significant improvement with an antipsychotic, prescribers might expect results

Practice Points

- Antipsychotic polypharmacy (APP) might be appropriate in patients who have failed or cannot tolerate antipsychotic monotherapy.
- Although evidence in the literature is mixed, treatment-refractory patients could see improvement with the combination of clozapine plus risperidone.
- Safety data for APP are mixed; several studies of clozapine plus risperidone or adjunctive aripiprazole suggest that these combinations generally are well tolerated.
- Adding aripiprazole to existing antipsychotic therapy could be beneficial for mitigating metabolic side effects and drug-induced hyperprolactinemia in patients who cannot be switched to another antipsychotic.

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after 4 weeks of treatment.6 Therefore, treatments could be labeled ineffective because trials did not last long enough, leading to premature use of polypharmacy. Combinations of a first- and secondgeneration antipsychotic (SGA) or 2 SGAs are most common.2,7,8

Treatment guidelines (Table 2, page 52)9-17 suggest APP could be considered after several failures of monotherapy, including clozapine monotherapy, although some guidelines do not address the issue or recommend against APP because of lack of efficacy and safety data. Additionally, APP poses safety concerns (Table 3, page 52). 18-22 Recommendations for APP with combinations that do not include clozapine generally are not provided, because high-level evidence to support this strategy is lacking. Data on safety and efficacy of APP are mixed, with much of the literature dominated by case reports and uncontrolled studies.19

What to initiate

Clozapine. Higher-level evidence is available for clozapine APP. The combination of clozapine and risperidone is one of the most thoroughly studied and, therefore, is a reasonable first choice. Randomized controlled trials (RCTs) examining clozapine plus risperidone²³⁻²⁹ have yielded mixed results and have not provided conclusive information regarding benefit for positive vs negative symptoms.24-28

One RCT reported a significant change in Brief Psychiatric Rating Scale (BPRS) total and positive symptom scores.²⁷ Other RCTs have shown a non-significant trend toward greater change in total, positive, and negative symptom scores with the clozapine-risperidone combination compared with clozapine monotherapy.^{25,28} In terms of cognition, this combination provided no additional benefit.23 Response, defined as ≥20% reduction in total BPRS or Positive and Negative Syndrome Scale (PANSS) scores, for clozapine plus risperidone range from 13% to 83%, compared with 8% to 29% for clozapine plus placebo. 24,25,27,29

Table 1

Broad rationale among clinicians for instituting antipsychotic polypharmacy

Obtain pharmacodynamic synergy: Adding an FGA to an SGA might increase D2 receptor occupancy above a threshold level

Broaden the range of receptor activity

Decrease total antipsychotic dosage burden

Gain a greater and more rapid response

Cross-taper

Manage particularly challenging symptoms

Decrease persistent positive symptoms (rationale for adding an FGA)

Optimize pharmacokinetic effects

Counteract adverse effects (aripiprazole)

Treat breakthrough psychotic symptoms (asneeded agent)

Counteract a patient's refusal to take clozapine or sidestep a contraindication to clozapine

Respond to pressure to decrease length of hospitalization

Manage a low physician-to-patient ratio

FGA: first-generation antipsychotic; SGA: secondgeneration antipsychotic

Source: References 1,4

Data from 1 study²⁷ suggest a number needed to treat of 4 to achieve at least a 20% improvement in BPRS scores with clozapine plus risperidone vs clozapine monotherapy. Across these studies, the average risperidone dosage was 4 mg/d, although using the lowest effective dosage is encouraged. A small number of RCTs and articles examining other APP combinations (Table 4, page 53)30-33 have yielded mixed results.

Overall, APP appears to be welltolerated, although it is associated with an increased risk of adverse effects, including sedation, extrapyramidal symptoms, hyperprolactinemia, sexual dysfunction, cognitive impairment, anticholinergic effects, hyperlipidemia, and diabetes.^{23,24,34-36} Surprisingly, 1 literature review36 found no association between APP and increased risk of orthostasis. Increased occurrence of sedation, hyper-

Clinical Point

Treatment guidelines suggest APP could be considered after several failures of monotherapy, including clozapine monotherapy



Table 2

Treatment guidelines for antipsychotic polypharmacy in schizophrenia

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Organization (year)	Findings and recommendations	
American Psychiatric Association (2004)	Clozapine APP is reasonable for patients who have an inadequate response to clozapine Evidence for (or against) the use of non-clozapine APP is minimal	
British Association for Psychopharmacology (2011)	Clozapine APP can be considered after 3 months of clozapine monotherapy Effectiveness of non-clozapine APP has not been assessed enough to support a recommendation over antipsychotic monotherapy	
National Institute for Health and Care Excellence (2014)	If the patient has an inadequate response to clozapine at an optimized dosage, consider measuring the serum drug level before adding a second antipsychotic	
Texas Medication Algorithm Project (2008)	 Clozapine APP is recommended after failure of 2 FGAs, 2 SGAs, or clozapine monotherapy Non-clozapine APP is recommended after failure of clozapine monotherapy and clozapine in combination with another antipsychotic 	
World Federation of Societies of Biologic Psychiatry (2012)	Combination of clozapine with another SGA (possibly risperidone) might have some advantage compared with monotherapy	
The Schizophrenia Patient Outcomes Research Team (2009)	Studies of clozapine APP have failed to document sufficient efficacy and safety to support a recommendation in people with treatment-resistant schizophrenia	
Canadian Psychiatric Association (2005)	APP is the last treatment strategy to be employed	
Royal Australian and New Zealand College of Psychiatrists (2004) APP should not be used except during transitional periods when switch antipsychotics; there is little evidence for the effectiveness of APP, and practice increases the side-effect burden		
Scottish Intercollegiate Guidelines Network (2013)	A trial of clozapine augmentation with a second SGA should be considered for patients whose symptoms have not responded adequately to clozapine monotherapy	

Clinical Point

The combination of clozapine and risperidone is one of the most thoroughly studied and, therefore, is a reasonable first choice

Table 3

Source: References 9-17

What are the concerns about antipsychotic polypharmacy?

APP: antipsychotic polypharmacy; FGA: first-generation antipsychotic; SGA: second-generation antipsychotic

Prescribing total dosages of antipsychotics higher than is necessary or recommended Increased risk of side effects, including metabolic syndrome and extrapyramidal symptoms Increased risk of drug-drug interactions Difficultly assessing response to individual medications when ≥2 agents are given concomitantly Could contribute to worsened medication adherence because of greater treatment complexity

Could be associated with increased mortality

Might produce a decline in cognitive functioning

Might be associated with longer hospitalization

Source: References 18-22

Table 4

Studies of antipsychotic polypharmacy

Study	Type	N	Results
CADTH (2012)	Review article examining combination and high-dose antipsychotic therapies for schizophrenia	30 RCTs	 Clozapine APP was associated with improvement in CGI scores and reduction in metabolic side effects, but also with a higher rate of hyperprolactinemia, akathisia, and treatment withdrawal compared with patients taking clozapine monotherapy Because of the dearth of high-level evidence in the literature, RCTs for non-clozapine APP were limited
Chang et al (2008)	8-Week randomized double-blind, placebo-controlled trial of aripiprazole augmentation of clozapine	62	 No significant difference in BPRS total score between aripiprazole and placebo Secondary analysis: significantly greater improvement for negative symptoms (BPRS, SANS) but not positive symptoms with aripiprazole No differences in adverse effects
Kane et al (2009)	16-Week multicenter, double-blind, placebo-controlled study of aripiprazole or placebo added to quetiapine or risperidone	323	Similar mean change in PANSS total score between adjunctive aripiprazole and placebo groups Similar incidence of treatment-emergent adverse effects, including EPS, in all groups
Velligan et al (2015)	Analysis of Medicaid data for adult patients initiated on APP or clozapine monotherapy between July 2006 and January 2009	2,919	 Clozapine monotherapy was associated with lower odds of mental illness-related emergency department visits compared with patients on APP (odds ratio = 0.75) Both disease-specific and all-cause health care costs were lower in patients receiving clozapine monotherapy (of note, not all APP patients in the study were receiving clozapine APP)

APP: antipsychotic polypharmacy; BPRS: Brief Psychiatric Rating Scale; CADTH: Canadian Agency for Drugs and Technology in Health; CGI: Clinical Global Impression; EPS: extrapyramidal symptoms; PANSS: Positive and Negative Syndrome Scale; RCT: randomized controlled trial; SANS: Scale for the Assessment of Negative Symptoms

Source: References 30-33

prolactinemia, and an elevated fasting blood glucose level have been found for clozapine plus risperidone compared with clozapine monotherapy.^{24-26,28}

Aripiprazole. Adjunctive aripiprazole, a dopamine partial agonist, could reduce elevated prolactin levels caused by other antipsychotics.³² In a study³⁷ of 56 patients taking haloperidol who had hyperprolactinemia, prolactin levels normalized in 88.5% of patients taking adjunctive aripiprazole, 30 mg/d, compared with 3.6% of those with added placebo. Furthermore, results from 2 RCTs^{38,39} of patients taking clozapine or olanzapine suggest adjunctive aripiprazole could improve weight and metabolic profile. Therefore, adding aripiprazole to existing antipsychotic regimens is

Table 5

Oral dosages of secondgeneration antipsychotics for adult patients with schizophrenia

Drug	Target dosage (mg/d)	Maximum dosage (mg/d)				
Aripiprazole	10 to 15	30				
Asenapine	10	20				
Clozapine	300 to 600	900				
lloperidone	6 to 12	24				
Lurasidone	40 to 120	160				
Olanzapine	10 to 20	20				
Paliperidone	6 to 12	12				
Quetiapine	300 to 800	800				
Risperidone	4 to 8	16				
Ziprasidone	80 to 160	160				
Source: References 13,40						

Clinical Point

Adjunctive aripiprazole, a dopamine partial agonist, could reduce elevated prolactin levels caused by other antipsychotics

Related Resource

 Kontos N, Freudenreich O, Querques J. Reducing polypharmacy: when less is more. Current Psychiatry. 2010;9(3):80.

Drug Brand Names

Aripiprazole • Abilify Asenapine • Saphris Clozapine • Clozaril Haloperidol • Haldol Iloperidone • Fanapt Lurasidone • Latuda

Olanzapine • Zyprexa Paliperidone • Invega Perphenazine • Trilafon Quetiapine • Seroquel Risperidone • Risperdal Ziprasidone • Geodon

Clinical Point

Clozapine APP, especially with risperidone, has the most substantial evidence to support it

reasonable for patients with drug-induced symptomatic hyperprolactinemia or metabolic effects and who cannot be easily switched to another antipsychotic.

When to initiate

Most treatment guidelines9-17 recommend clozapine only after monotherapy with at least 2 other antipsychotics fails. It is reasonable to add an antipsychotic to clozapine in patients who have shown a partial response to clozapine after a minimum of 3 months. Non-clozapine APP should be considered when:

- a patient derives no benefit from clozapine
- refuses clozapine
- clozapine is contraindicated
- APP is initiated to mitigate side effects from another antipsychotic.

Antipsychotics could take up to 16 weeks to achieve full efficacy,6 therefore, an adequate trial period within the target dosage range is advised for all antipsychotics (Table 5, page 53). 13,40

Why initiate

Based on available data, partial response to maximum recommended dosages of antipsychotic monotherapy, including clozapine, or inability to tolerate higher dosages, provides a reason for initiating APP. Non-clozapine APP generally should be considered only in patients who refuse, cannot tolerate, or do not respond to clozapine. Consider using validated rating scales to track treatment outcomes (ideally, a ≥20% symptomatic reduction on the BPRS or

PANSS), although there is no formal guidance regarding their use or benefit in APP.

Summing up

APP is a fairly common prescribing practice, even though safety and efficacy data are mixed. The issue of APP has become prevalent enough that regulatory bodies are involved in its monitoring and documentation.41

Clozapine APP, especially with risperidone, has the most substantial evidence to support it. Although APP generally is well tolerated, the overall dearth of conclusive safety and efficacy data indicates that this practice should be reserved for patients who have not responded adequately to monotherapy, including clozapine. Adjunctive aripiprazole could be considered for addressing symptomatic hyperprolactinemia or other metabolic effects caused by other antipsychotics.

An adequate trial as long as 16 weeks is advised before assessing the efficacy of any antipsychotic regimen. If APP provides inadequate response, or if there is no clear indication for APP, consider switching the patient back to monotherapy. 42-44

References

- 1. Gallego JA, Bonetti J, Zhang J, et al. Prevalence and correlates of antipsychotic polypharmacy: a systematic review and metaregression of global and regional trends from the 1970s to 2009. Schizophr Res. 2012;138(1):18-28.
- 2. Gören JL, Meterko M, Williams S, et al. Antipsychotic prescribing pathways, polypharmacy, and clozapine use in treatment of schizophrenia. Psychiatr Serv. 2013;64(6):527-533.
- 3. Sun F, Stock EM, Copeland LA, et al. Polypharmacy with antipsychotic drugs in patients with schizophrenia: trends in multiple health care systems. Am J Health Syst Pharm.
- 4. Tapp A, Wood AE, Secrest L, et al. Combination antipsychotic therapy in clinical practice. Psychiatr Serv. 2003;54(1):55-59.
- 5. Ananth J, Parameswaran S, Gunatilake S. Antipsychotic polypharmacy. Curr Pharm Des. 2004;10(18):2231-2238.
- 6. Stahl SM. Antipsychotic polypharmacy: evidence based or eminence based? Acta Psychiatr Scand. 2002;106(5):321-322.
- 7. Botts S, Hines H, Littrell R. Antipsychotic polypharmacy in the ambulatory care setting, 1993-2000. Psychiatr Serv. 2003;54(8):1086.
- 8. Santone G, Bellantuono C, Rucci P, et al. Patient characteristics and process factors associated with antipsychotic polypharmacy in a nationwide sample of psychiatric inpatients in Italy. Pharmacoepidemiol Drug Saf. 2011;20(5):441-449.
- 9. American Psychiatric Association. Practice guideline for the treatment of patients with schizophrenia, second edition. http://psychiatryonline.org/pb/assets/raw/sitewide/ practice_guidelines/guidelines/schizophrenia.pdf. Updated September 2009. Accessed September 20, 2014.
- 10. Barnes TRE; Schizophrenia Consensus Group of the

- British Association for Psychopharmacology. Evidencebased guidelines for the pharmacological treatment of schizophrenia: recommendations from the British Association for Psychopharmacology. http://www.bap.org.uk/pdfs/ Schizophrenia_Consensus_Guideline_Document.pdf. Updated 2011. Accessed September 20, 2014
- 11. National Institute for Health and Care Excellence. Psychosis and schizophrenia in adults: prevention and management. http://www.nice.org.uk/guidance/cg178. Published February 2014. Accessed September 20, 2014.
- 12. Texas Medication Algorithm Project. Schizophrenia treatment algorithms. http://www.jpshealthnet.org/sites/default/files/ tmapalgorithmforschizophrenia.pdf. Updated April 2008. Accessed September 20, 2014.
- 13. Hasan A, Falkai P, Wobrock T, et al; World Federation of Societies of Biological Psychiatry (WFSBP). World Federation of Societies of Biological Psychiatry (WFSBP) guidelines for biological treatment of schizophrenia, part 1: update 2012 on the acute treatment of schizophrenia and the management of treatment resistance. World J Biol Psychiatry. 2012;13(5):
- 14. Canadian Psychiatric Association. Clinical practice guidelines: treatment of schizophrenia. https://ww1.cpaapc.org/Publications/Clinical_Guidelines/schizophrenia/ november 2005/index.asp. Updated November 2005. Accessed February 26, 2016.
- 15. Royal Australian and New Zealand College of Psychiatrists. Clinical practice guidelines for the treatment of schizophrenia and related disorders. http://www.ranzcp.org/Files/ranzcpattachments/Resources/Publications/CPG/Clinician/CPG_ Clinician_Full_Schizophrenia-pdf.aspx. Updated May 2005. Accessed February 26, 2016.
- 16. Scottish Intercollegiate Guidelines Network. Management of schizophrenia: a national clinical guideline. http://www.sign. ac.uk/guidelines/fulltext/131/index.html. Updated March 2013. Accessed September 20, 2014.
- 17. Buchanan RW, Kreyenbuhl J, Kelly DL, et al; Schizophrenia Patient Outcomes Research Team (PORT). The 2009 schizophrenia PORT psychopharmacological treatment recommendations and summary statements. Schizophr Bull. 2010;36(1):71-93.
- 18. Correll CU, Gallego JA. Antipsychotic polypharmacy: a comprehensive evaluation of relevant correlates of a long-standing clinical practice. Psychiatr Clin North Am. 2012;35(3):661-681.
- 19. Tranulis C, Skalli L, Lalonde P, et al. Benefits and risks of antipsychotic polypharmacy: an evidence-based review of the literature. Drug Saf. 2008;31(1):7-20.
- 20. Barnes TR, Paton C. Antipsychotic polypharmacy in schizophrenia: benefits and risks. CNS Drugs. 2011;25(5):
- 21. Lochmann van Bennekom MW, Gijsman HJ, Zitman FG. Antipsychotic polypharmacy in psychotic disorders: a critical review of neurobiology, efficacy, tolerability and cost effectiveness. J Psychopharmacol. 2013;27(4):327-336.
- 22. Weinmann S, Read J, Aderhold V. Influence of antipsychotics on mortality in schizophrenia: systematic review. Schizophr Res. 2009;113(1):1-11.
- 23. Akdede BB, Anil Yağcioğlu AE, Alptekin K, et al. A doubleblind study of combination of clozapine with risperidone in patients with schizophrenia: effects on cognition. J Clin Psychiatry. 2006;67(12):1912-1919.
- 24. Anil Yağcıoğlu AE, Kivircik Akdede BB, Turgut TI, et al. A double-blind controlled study of adjunctive treatment with risperidone in schizophrenic patients partially responsive to clozapine: efficacy and safety. J Clin Psychiatry. 2005;66(1):
- 25. Freudenreich O, Henderson DC, Walsh JP, et al. Risperidone augmentation for schizophrenia partially responsive to clozapine: a double-blind, placebo-controlled trial. Schizophr Res. 2007;92(1-3):90-94.

- 26. Honer WG, Thornton AE, Chen EY, et al: Clozapine and Risperidone Enhancement (CARE) Study Group. Clozapine alone versus clozapine and risperidone with refractory schizophrenia. N Engl J Med. 2006;354(5):472-482.
- 27. Josiassen RC, Joseph A, Kohegyi E, et al. Clozapine augmented with risperidone in the treatment of schizophrenia: a randomized, double-blind, placebo-controlled trial. Am J Psychiatry. 2005;162(1):130-136.
- 28. Weiner E, Conley RR, Ball MP, et al. Adjunctive risperidone for partially responsive people with schizophrenia treated with clozapine. Neuropsychopharmacology. 2010;35(11):2274-2283.
- 29. Zink M, Kuwilsky A, Krumm B, et al. Efficacy and tolerability of ziprasidone versus risperidone as augmentation in patients partially responsive to clozapine: a randomized controlled clinical trial. J Psychopharmacol. 2009;23(3):305-314.
- 30. Canadian Agency for Drugs and Technology in Health. Current utilization of antipsychotic agents for schizophrenia: combination and high-dose therapies. https://www.cadth. ca/sites/default/files/pdf/H0503_AAP-Current-Utilization-Report_e.pdf. Published August 2012. Accessed February 26,
- 31. Chang JS, Ahn YM, Park HJ, et al. Aripiprazole augmentation in clozapine treated patients with refractory schizophrenia: an 8-week, randomized, double blind, placebo-controlled trial. J Clin Psychiatry. 2008;69(5):720-731.
- 32. Kane JM, Correll CU, Goff DC, et al. A multicenter, randomized, double-blind, placebo-controlled, 16-week study of adjunctive aripiprazole for schizophrenia or schizoaffective disorder inadequately treated with quetiapine or risperidone monotherapy. J Clin Psychiatry. 2009;70(10):1348-1357.
- 33. Velligan DI, Carroll C, Lage MJ, et al. Outcomes of medicaid beneficiaries with schizophrenia receiving clozapine only or antipsychotic combinations. Psychiatr Serv. 2015;66(2):127-133.
- 34. Citrome L, Jaffe A, Levine J, et al. Relationship between antipsychotic medication treatment and new cases of diabetes among psychiatric inpatients. Psychiatr Serv. 2004;55(9):
- 35. Correll CU, Frederickson AM, Kane JM, et al. Does antipsychotic polypharmacy increase the risk for metabolic syndrome? Schizophr Res. 2007;89(1-3):91-100.
- Gallego JA, Nielsen J, De Hert M, et al. Safety and tolerability of antipsychotic polypharmacy. Expert Opin Drug Saf. 2012;11(4):527-542
- 37. Shim JC, Shin JG, Kelly DL, et al. Adjunctive treatment with a dopamine partial agonist, aripiprazole, for antipsychoticinduced hyperprolactinemia: a placebo-controlled trial. Am J Psychiatry. 2007;164(9):1404-1410.
- 38. Fan X, Borba CP, Copeland P, et al. Metabolic effects of adjunctive aripiprazole in clozapine-treated patients with schizophrenia. Acta Psychiatr Scand. 2013;127(3):217-226.
- 39. Henderson DC, Fan X, Copeland PM, et al. Aripiprazole added to overweight and obese olanzapine-treated schizophrenia patients. J Clin Psychopharmacol. 2009;26(2):165-169.
- 40. Drug Information Handbook, 22th ed. Hudson, OH: Lexi-Comp, Inc.; 2013:1143-1147.
- 41. The Joint Commission. Specifications Manual for Joint Commission National Quality Measures (v2013A1). https:// manual.jointcommission.org/releases/TJC2013A/. Accessed on May 13, 2015.
- 42. Essock SM, Schooler NR, Stroup TS, et al; Schizophrenia Trials Network. Effectiveness of switching from antipsychotic polypharmacy to monotherapy. Am J Psychiatry. 2011;
- 43. Godleski LS, Kerler R, Barber JW, et al. Multiple versus single antipsychotic drug treatment in chronic psychosis. J Nerv Ment Dis. 1989;177(11):686-689.
- 44. Suzuki T, Uchida H, Tanaka KF, et al. Revising polypharmacy to a single antipsychotic regimen for patients with chronic schizophrenia. Int J Neuropsychopharmacol. 2004;7(2):

Clinical Point

If APP provides inadequate response, or if there is no clear indication for APP, consider switching the patient back to monotherapy