

Paliperidone 3-monthly injection: experience in a real world setting

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Background

One of the major contributors to the risk of relapse in schizophrenia is non-adherence to treatment with antipsychotics¹. Long-acting injectable antipsychotics (LAI) are commonly used in clinical practice to combat partial or complete non-adherence to oral antipsychotic treatment. LAIs have further benefits of establishing consistent and sustained plasma levels and assisting with identification of true response to treatment². Recently, the newest LAI to be approved for use within Australia, paliperidone palmitate 3-monthly injection (Invega Trinza) features the longest duration of action currently available.

Clinical trials have demonstrated successful results in comparison to placebo³ and the 1-monthly formulation⁴; however there is limited data available in a real world setting.

Aims

Primary aim:

To assess rate of successful transition to the 3-monthly paliperidone LAI

Secondary aims:

- To assess compliance with recommended guidelines for transitioning to the 3-monthly LAI
- To assess if the longer dosing interval has an effect on frequency of patient contact with mental health services

Methods

Population: Consumers initiated on paliperidone 3-monthly LAI between January 2017 and December 2018

Setting: Northern Community Mental Health Services, South Australia

Follow up: Observational: 3 months pre and post transition

Successful transition was defined as transition to the 3-monthly LAI <u>without</u> one or more of the following events occurring within the 6 months post transition:

- Admission to a psychiatric inpatient unit
- Increase or addition of supplemental oral antipsychotic therapy
- Cessation of 3-monthly paliperidone LAI

Change in dosage of 3-monthly paliperidone LAI

Results

In total **65 consumers** were transitioned to the 3-monthly LAI during the study period. Patient demographics are displayed in *Table 1*.

Table 1: Baseline Demographics	
Baseline Demographics	n=65
Age, median (IQR)	42 (9.6)
Male, n (%)	50 (76.9)
Primary Diagnosis, n (%)	
Schizophrenia	41 (63.1)
Schizoaffective disorder	18 (27.7)
Other	6 (9.2)
Active CTO at time of switch, n (%)	25 (38.5)
Hospital admission previous 6 months, n (%)	8 (12.3)
Dose prior to switch	
150mg, n (%)	28 (43.1)
100mg, n (%)	29 (44.6)
75mg, n (%)	8 (12.3)
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Just under two-thirds were successfully transitioned to the 3-monthly LAI during the study period as shown in *Table 2*.

Table 2: Treatment outcomes in the 6 months following transition to 3-monthly paliperidone LAI

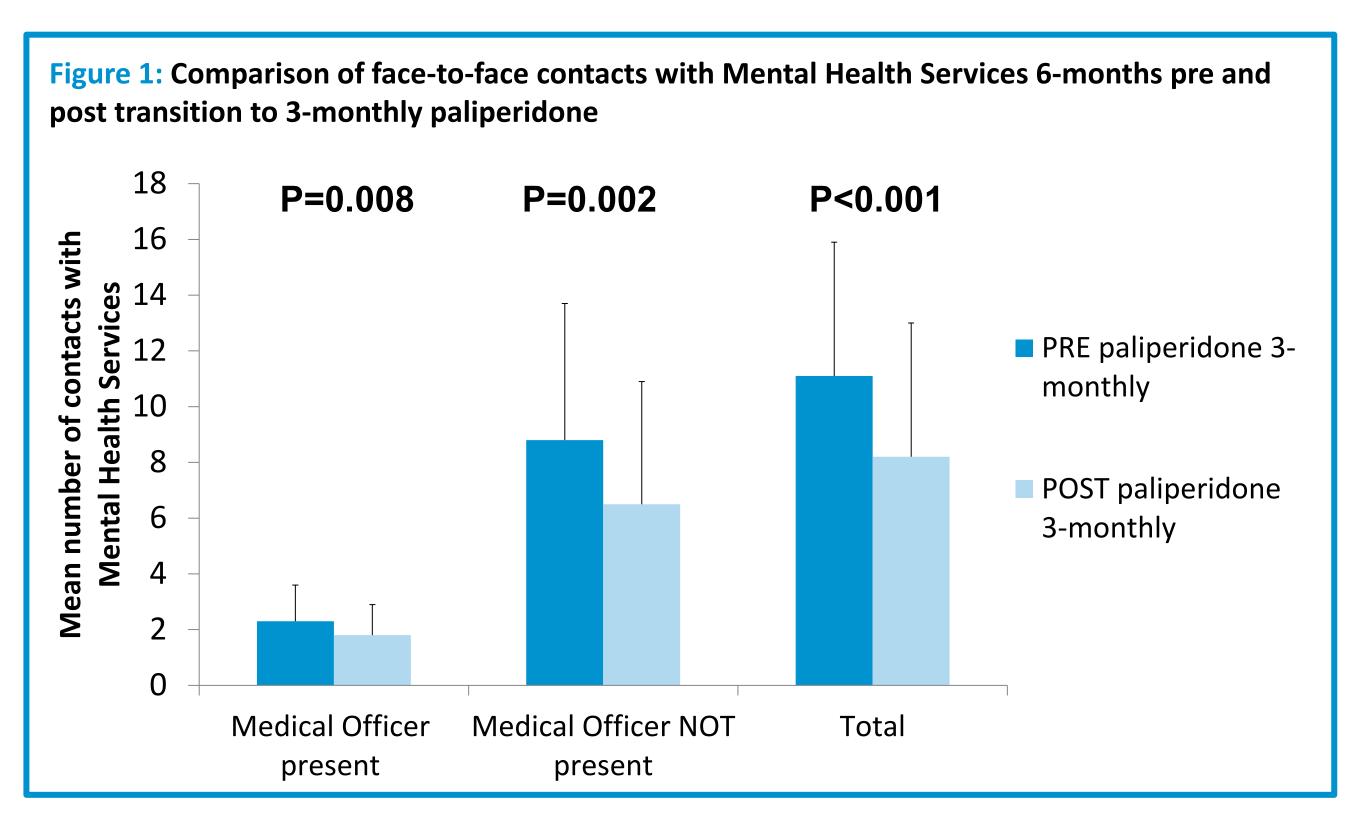
IQR: Interquartile Range, CTO: Community Treatment Order

Compliance to recommended transition guidelines were as follows:

- Equivalent dose conversion: 63 (96.9%)
- •≥ 4 months of uninterrupted 1-monthly LAI: 61 (93.8%)
- •≥ 2 consecutive 1-monthly LAI of the same dose: 65 (100%)

Of the two non-compliant dose conversions, both received a lower than equivalent dose. One consumer required a subsequent hospital admission and the other required additional oral antipsychotic supplementation within 6 months.

Contact with mental health services was **reduced** following the transition to the 3-monthly LAI as shown in *Figure 1*.



Conclusions

- •Challenges may be present when swapping to a long acting antipsychotic injection with a longer dosing interval in a real world setting including consumers' perceived treatment intensity and engagement with mental health services
- •Caution should be taken to ensure long term therapy with paliperidone is suitable and that adequate symptom control and tolerability is first well established with shorter acting formulations
- •Reduction in contact with Medical Officers who are not routinely present during injection administration may suggest a broader reduction in engagement with services
- •Purposefully increased contact and monitoring during this period should be implemented to identify and prevent early relapse.





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