Using telehealth to enable collaboration of pharmacists and geriatricians in residential medication management reviews

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Centre for Health Services Research



COGNITIVE DECLINE PARTNERSHIP CENTRE

Background

- Aged care residents, particularly those with dementia, are at risk of potentially inappropriate prescribing and adverse outcomes relating to medication use
- Medication reviews are important interventions for optimising prescribing

Residential Medication Management Reviews (RMMRs)

• Residential care

Comprehensive geriatric assessment (CGA)



Background

- Ideally, specialists' input should be synchronised to ensure the best results
- Current situation:
 - Lack of onsite expertise
 - Professional groups that work separately

• Telehealth can offer a solution





To test a telehealth platform to enable collaboration of pharmacists and geriatricians in RMMR process

To assess the potential value-adding of a joint approach to the process



Proposed model

Admission to RACF

GP assessment

Complex issues / polypharmacy

Geriatrician & pharmacist review request

Structured nurse assessment

Online pharmacist medication review

Geriatrician review by video-conference

Recommendations to GP and RACF



Testing the model

• The study protocol

A refined version of RES-e-CARE



PRIMARY CARE FOCUS

Development of a protocol for telehealth Residential Medication Management Reviews to enable collaboration of pharmacists and geriatricians

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>>> Resident List >>> Discharged >>> Add New Admission >>> My details >>> Help 💫 Refresh 🕘 Exit

Go back				Re	esident summary	
Resident details						
Name:	Mrs B U	Facility:	PI	harmacy Trial 1488755818	8.1162	
Age:	76 (03-Jan-1942)	Ward:	X	ΥZ		
Gender:	Female	Treating doctor:	D	r Treating		
UR Number:	21	Date of admissio	n: 30)-Aug-2016		
Referral history for this admission						
Date of referral	Referred to	Referred by	Geriatrician	Referral	l details	
Completed assessments						
Date of admission	Asse	essment setting [Date of discharge	Destination	Discharged by	

shpa



Methods



- ✓ Report
- \checkmark For each medication:
 - > No change
 - > Stop
 - Increase dose
 - Decrease dose
 - Decrease with view to stop
- \checkmark Any new medications



Methods

AUSTRALIA



CGA assessment
 For each medication: No change Decrease dose
 Confirm/changes@piginal medicationedecisi@ith view
 Increase dose to stop
 Any new medications
 Centre for
 Health Services Research

Outcome measures

- From pharmacists' reviews
 - ✓ The level of agreement among pharmacists
 - ✓ Perceptions of online platform compared to usual practice
 - From geriatricians' reviews
 - \checkmark The level of agreement among geriatricians
 - ✓ Whether they changed their original decisions after viewing the pharmacist review
 - ✓ Whether they found pharmacists' reviews helpful



Results

- 297 medications
 - ✓ Average 15 medications



Pharmacists' and Geriatricians' recommendations for medications



Pharmacists

Total of 1485 recommendations





Agreement among pharmacists and among geriatricians

Two pharmacists

- Percent agreement: 78 %
- Chance agreement: 68 %
- kappa: 0.30

Two geriatricians

- Percent agreement: 74 %
- Chance agreement: 61 %
- kappa: 0.31



Geriatricians changing mind after viewing pharmacists' reports

Baseline agreement between pharmacists' and geriatricians' recommendations for medications (from 1485 occasions)

Increase	4	$\left \right\rangle$
No change	955	
Decrease	7	
Decrease with view to stop	39	
Stop	35	





Qualitative feedback on process

Geriatricians	Pharmacists		
 in 72% of cases geriatricians felt the pharmacists report was helpful 	 4/5 pharmacists would be prepared to use this system as part of routine practice 		
 Helped confirm 1 or more original recommendations 	 Access to more information All information in one place 		
 Prompted more thought/change of original recommendations 	 Saves time and expenses of travelling X Not being able to talk with staff or observe resident 		
 Would be worthwhile to discuss together 	X Technical issues with learning to navigate the platform would be overcome with practice		



Conclusion

 Among pharmacists and geriatricians, discrepancies in opinion exist

✓ Overall, geriatricians held a positive opinion toward having the pharmacist report available

✓ Pharmacists saw gains in efficiency in using telehealth platform



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• The pharmacists and geriatricians who took part in the study



