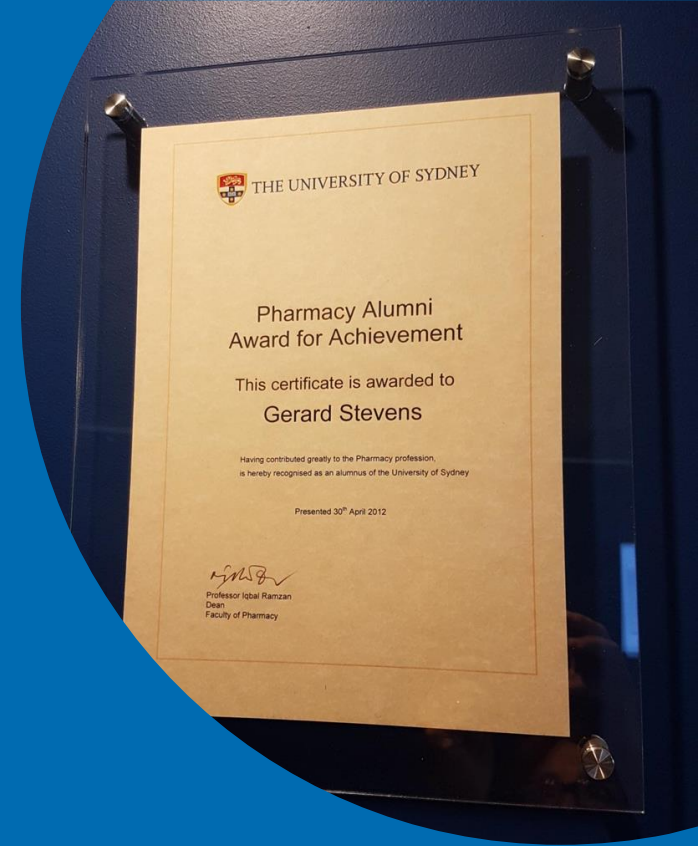


Transforming Independence through Innovative Technology





What it means to be an
Inventor and Innovator



Necessity is the mother of Invention

The right medicine
at the right time.



Our Values

The important principle is to treat everyone like they are your grandfather, your grandmother, or your parent. If we can get that right, everything else takes care of itself.

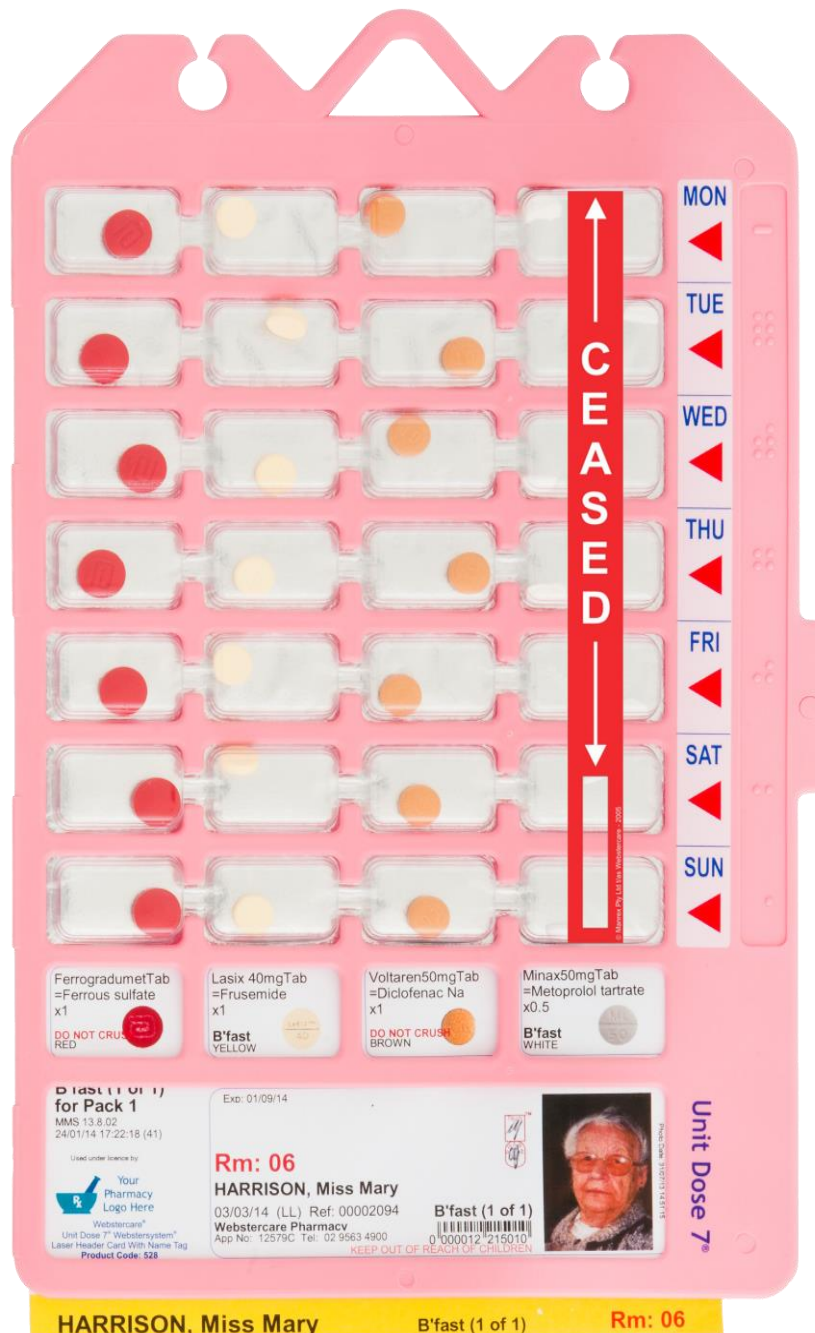


Unit Dose 7

*Tailored to each resident's
needs*

BEST Practice





CEASED

Minax 50mg Tablet
(Metoprolol tartrate 50mg tablet)
One at breakfast

ME 10

Prescriber Sig: J Smith

Prescriber Name: Dr. John SMITH

Date of Prescribing: DD/MM/YYYY

Date Start: DD/MM/YYYY

* Valid for duration of chart ☒ OR DD/MM/YY (SIG) JS

Brand Substitution not Permitted ☐

Route **PO**

PBS/RPBS ☐

CTG ☐

ADMINISTRATION TIMES
07:30

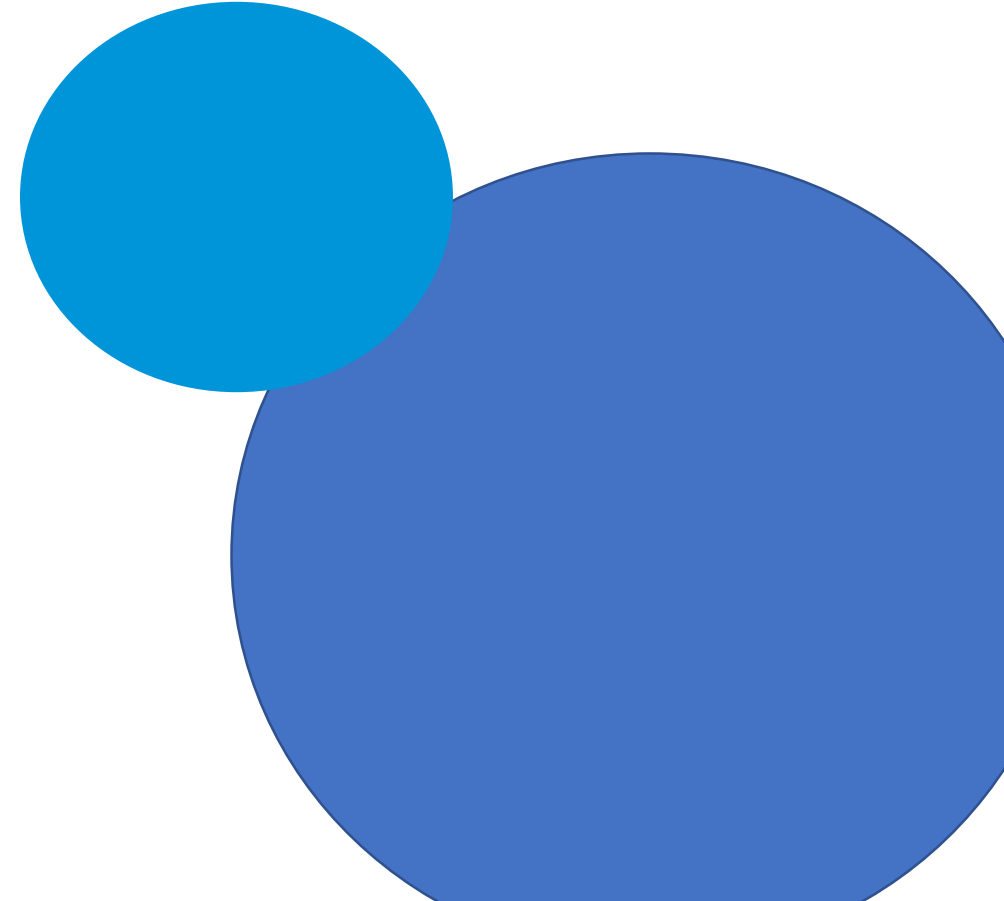
CEASED

Australian Nursing and Midwifery Federation (ANMF)

The use of dose administration aids by nurses and midwives

Dose administration aid packaging should ensure that:

- ✓ individual medicines can be readily identified,
- ✓ Information is of a size and layout that permits people with poor eyesight to read,
- ✓ **Any tampering with the medicines is evident.**
- ✓ If the prescriber alters the medicine instruction and the medicines are being administered from a dose administration aid, **the dose administration aid must be returned to the pharmacist for repackaging.**



QA Check

- *zero errors*
- *double-check workflow*



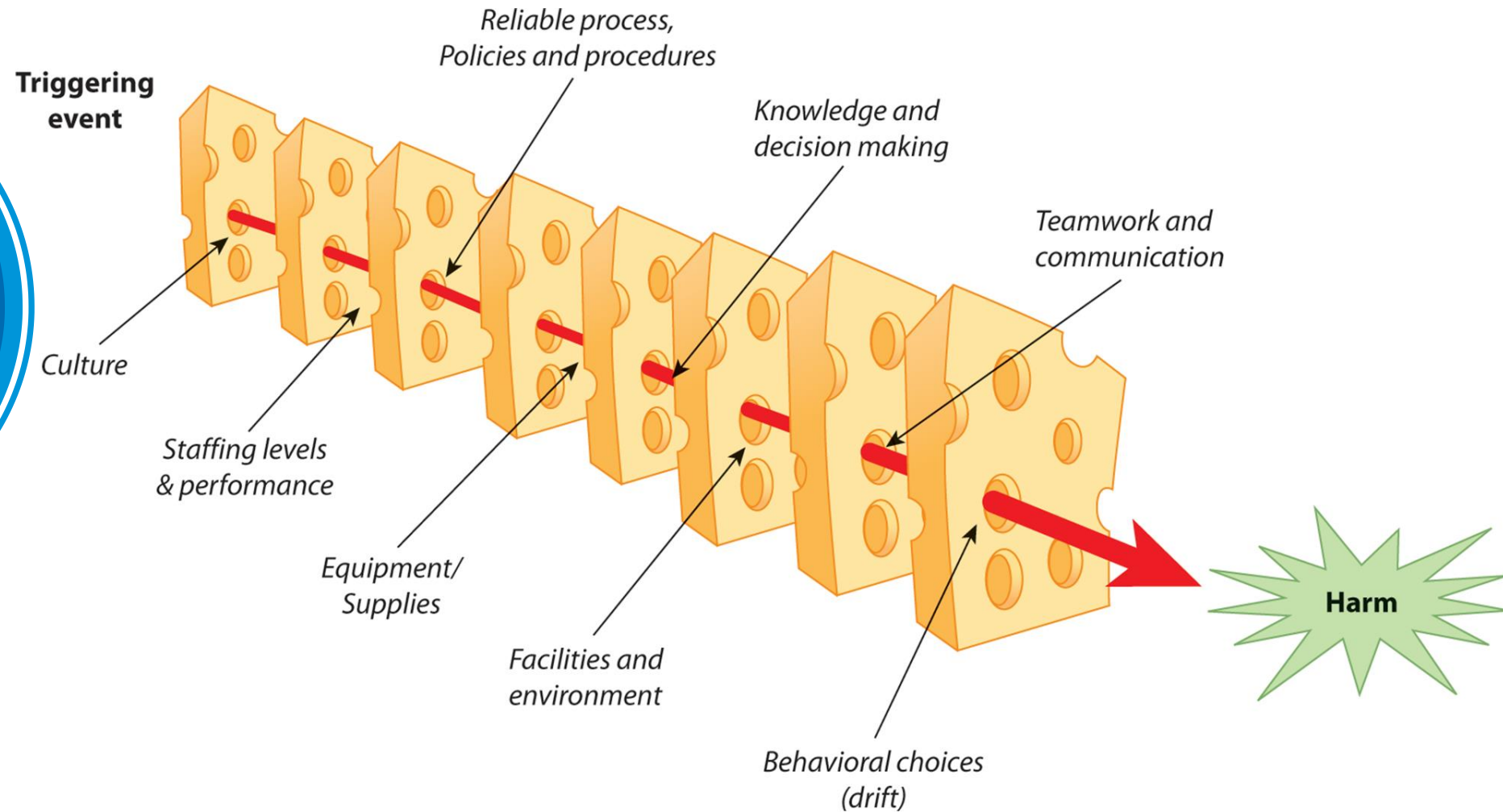


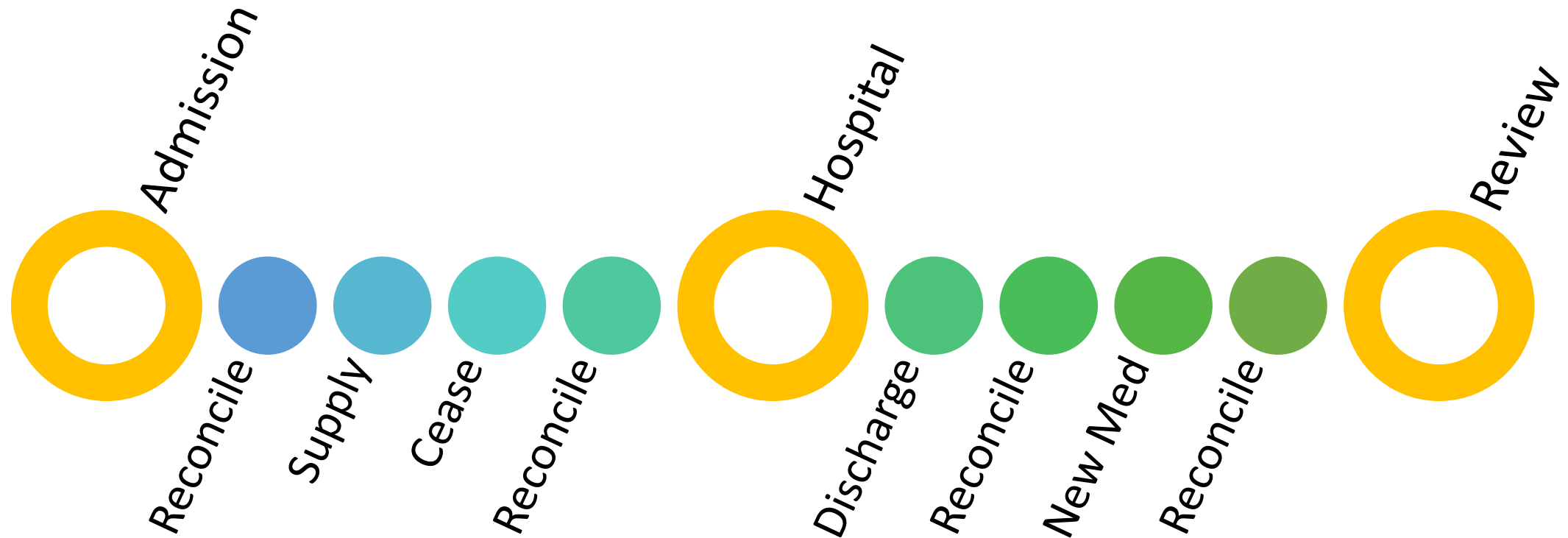


RACF residents are
more likely to be
admitted to hospital
due to medicine use
than lose their bags on
a plane.

The Swiss Cheese Effect

Why do medication errors occur in RACF?





Resident's Medication Journey in Residential Aged Care



Medication Errors

- **1/3** admissions to ACH are from hospital
- **2/3** of admissions to ACH are from their home
- **80%** of discharge summaries contain discrepancies
- RACF is not given prior notification in 40% of hospital discharges
- **30%** of aged care residents were discharged without medicines or information available
- 30% of cases changes to medicines list was not recorded

Circle of Care & Communication

Resident



Doctor



RN/PCA



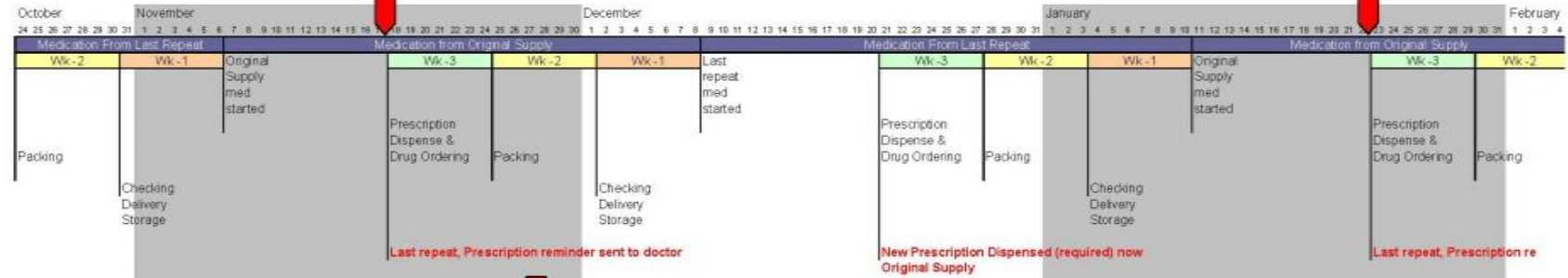
Pharmacist

Webstercare
RxMed Chart™

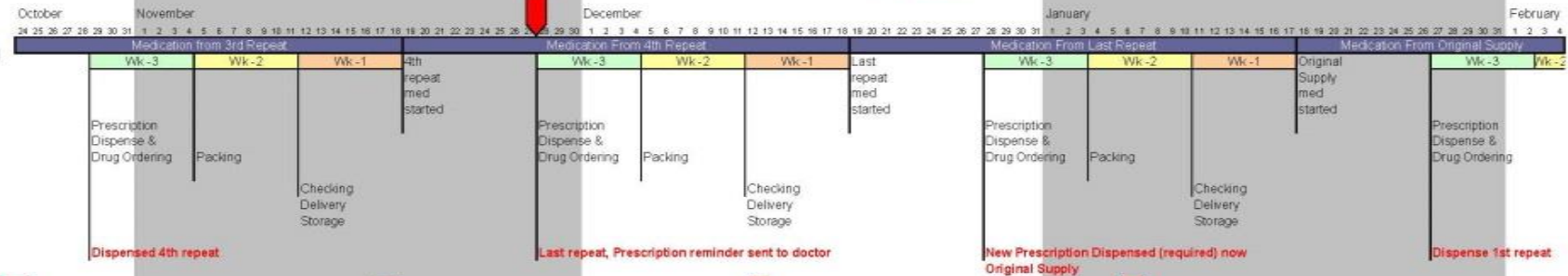


Prescription Dispensing Timeline - One Patient on Four Medications

Lasix 40mg
100 tab 1 rpt
2m & 1l



Alphapril 10mg
30 tab 5 rpt
1 mane



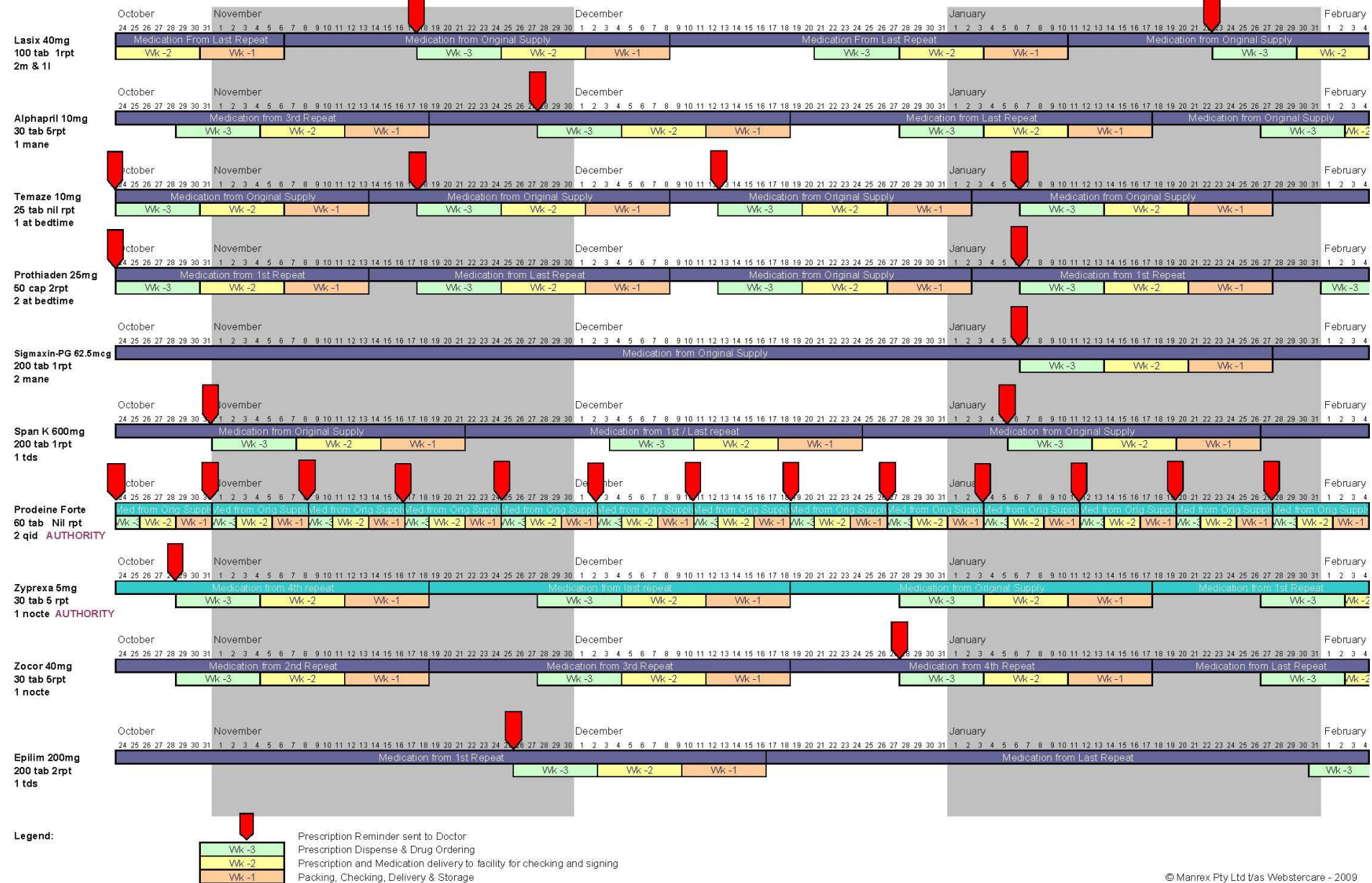
Temaze 10mg
25 tab nil rpt
1 at bedtime

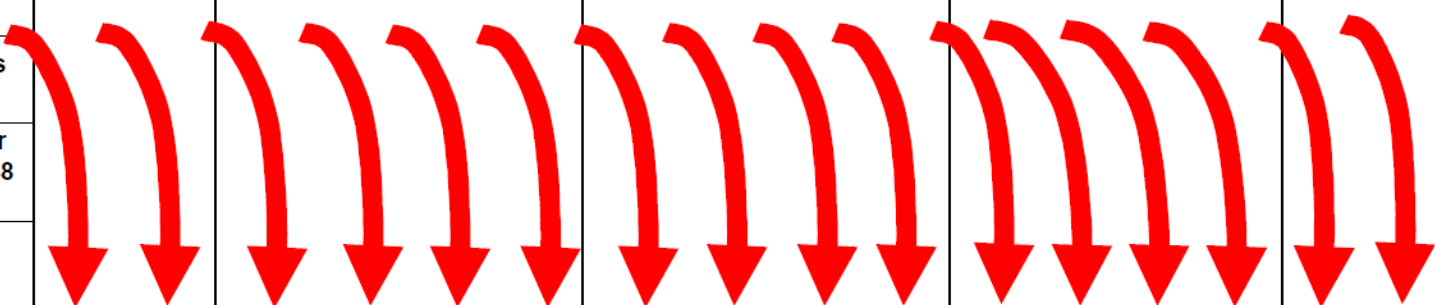
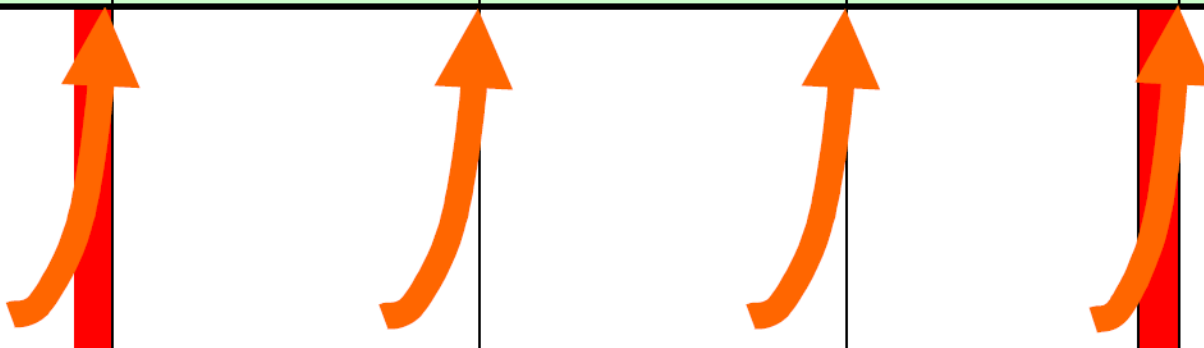


Prothiaden 25mg
50 cap 2 rpt
2 at bedtime



Prescription Dispensing Timeline - One Patient on Ten Medications



	Current Doctor Visit Scenario to Write Prescriptions				
Based on current MBS N/H visit costs \$56.35* for a 1 resident visit					
Assumed Current average of 4 doctor visits per month for prescriptions = 48 per annum					
Equating to - \$1,260.00 per annum / resident					
	Dec	Jan	Feb	Mar	Apr
Based on current MBS N/H visit costs \$56.35* for a 1 resident visit					
With medication charts used as prescriptions, proposed need for only 1 visit per month to see the patient with medication charts signed quarterly					
Equating to - \$676.20 per annum					
	Proposed Doctor Visit Scenario with Medication Charts Used as the Prescription				
Total Proposed saving of \$2028 per resident per annum					
Total Proposed saving of \$304.29M per annum based on 150,000 nursing home residents					
* Based on 1 resident visit as outlined in the Medicare Benefits Schedule November 2007 using 100% Bulk Billing rate					
© (2005)Manrex Pty Ltd t/as Webstercare - 200					

The eNRMCTrial

Electronic National Residential Medication Chart (e-NRMC) in aged care homes

Everyone sees the same information at the same time



DEED OF AGREEMENT

AGREEMENT IN RELATION TO THE PAPERLESS PRESCRIBING, DISPENSING AND CLAIMING TRIAL

THIS AGREEMENT is made by (*Name of Hospital*), located at XXX (Approval number XXX) and (*Name of Approved Supplier*) located at XXX (Approval number XXX) in the Commonwealth of Australia (the "Commonwealth") as represented by the Department of Health.

(*Name of Hospital*) is participating in a trial of paperless prescribing, dispensing and claiming for the supply of pharmaceutical benefits to patients of the Hospital using a paperless electronic medication chart system. The Commonwealth has made special arrangements to facilitate this Trial.

The *National Health Act 1953* ("the Act") and the *National Health (Pharmaceutical Benefits) Regulations 1960* ("the Regulations") outline the requirements in relation to the supply of pharmaceutical benefits. Of relevance, regulation 19 of the Regulations states that a prescription for a pharmaceutical benefit is only 'duly written' in certain circumstances. An electronic medication order is not a duly written prescription under regulation 19.

The Commonwealth has made a Special Arrangement, (*insert name of Instrument*) in accordance with subsection 100(1) of the Act. The Special Arrangement provides that an electronic medication order will be deemed to be a duly written prescription for the supply of pharmaceutical benefits to patients of the Hospital. As set out in the Special Arrangement, prescribers and the approved supplier must comply with some conditions in respect of electronic medication orders.

The Approved supplier agrees to the undertakings specified in this Deed of Agreement, except as specified in the Special Arrangement. In accordance with this Deed of Agreement, the requirements of the Act and the Regulations, apply to the supply of pharmaceutical benefits to patients at the Hospital, and to the claiming for payment by the Hospital.

OPERATIVE PROVISIONS

1. INTERPRETATION

1.1 In this Deed of Agreement, unless the context indicates otherwise:

- (a) a word or phrase will be taken to have its ordinary meaning, unless the word or phrase is defined in the Regulations or a declaration, determination or order made under section 100(1) of the Act or under the Regulations;
- (b) "the Act" means the *National Health Act 1953*;
- (c) "the delegate" means the delegate of the Minister for Health of the Commonwealth of the Act;
- (d) "electronic pharmacy record" means a record of information required to be included in a patient's electronic claim under the Rules;
- (e) "the Hospital" means (*Name of Hospital*);
- (f) "approved supplier" means an approved supplier under the Act;
- (g) "patient" means an in-patient who occurs in the course of hospital treatment, or an out-patient who occurs in the course of hospital treatment;
- (h) "approved prescriber" means a prescriber who has a prescriber number for the purposes of the Act;
- (i) "electronic medication management system" means an electronic management of medications system;
- (j) "electronic medication order" means an order for a pharmaceutical benefit approved electronically and which forms part of an electronic medication management system for the Hospital;
- (k) "the Regulations" means the *National Health (Pharmaceutical Benefits) Regulations 1960*;
- (l) "the Rules" means the rules under subregulation 98AC(4) of the Act;
- (m) "this Special Arrangement" means the *Special Arrangement* made under subsection 100(1) of the Act.



eNRMC

- Streamlined communication
- Accurate, real-time information
- Improvements in efficiency
- Continuity of medications
- Improved safety for the resident

Pharmacist Shared Medicines List (PSML)

CITIZEN, John

DOB: 25/12/1957
Gender: Male
IHI: 1234123412341234
Dr. Jane SMITH (PH: 08 9123 9123)
WA Pharmacy (PH: 08 9876 9876)
Pharmacist Name: BLOGGS, Joe

ALLERGIES AND ADVERSE REACTIONS
No known allergies

Date Prepared: 10/12/2019

Current Medicines

Drug	Directions	Start Date	End Date	Status
Spironolactone 25mg tablet (Spiractin 25mg Tablet) Pale Orange peppermint flavoured scored mark SP1, alpha on	Take ONE in the morning and ONE midday	02/12/2019		Unchanged
Irbesartan 75mg tablet (Abisart 75mg Tablet) White Oval Marked "13" and Plain on Reverse Film Coated	Take ONE in the morning	02/12/2019		Unchanged
Furosemide 40mg tablet (Uremide 40mg Tablet) White Marked FE/40 & alpha symbol on reverse scored	Take ONE in the morning	02/12/2019		Unchanged
Pantoprazole sod. (as Sesquihydrate) 40mg tablet (Salpraz 40mg Tablet) Yellow Oval Enteric-Coated Tab	Take ONE in the morning	02/12/2019		Unchanged
Docusate Sod.; Sod. Benzoate 50/8mg tablet (Pharmacy Action Laxative with Senna) Brown-Orange Round Tablet	Take ONE tablet twice a day	02/12/2019		Unchanged
Macrogol 3350, KCl, NaHCO ₃ , NaCl - powder (Molaxole Powder for Oral Solution) White Crystalline Powder	Take ONE sachet in the morning	10/12/2019		New
Boric acid, propylene glycol - eye drops (Systane Ultra (Eye Drops)) Eye Drops	Instil 1 drop into BOTH eyes three times daily	10/12/2019		New

PRN Medicines

Drug	Directions	Start Date	End Date	Status
Paracetamol 500mg tablet (Paracetamol Generichealth 500mg Tablet) White Round bevelled edge scored on one side Tablet	Swallow whole TWO tablets THREE times a day as directed by your doctor	10/12/2019		New



Patient Centred Care



Using Big Data to support Best Practice

- Tracing antipsychotic usage
- Benchmarking medication clinical outcomes
- Psychotropic medicine report
- Clinical correlation report
- Monitoring risk of falls



Pharmacist Curated Medication Profile

Antipsychotics Report

Clinical Reporting

Quality Use of Medicine Report

Antipsychotics for behavioural and psychological symptoms of dementia

Facility(s):

Sunshine Gardens Nursing Home (SG)

Pharmacy: Webstercare Pharmacy

Date of Report: 12/02/2016

Date Printed: 12/02/2016

IMPORTANT NOTICE

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This report has been prepared for health professionals but no warranty, express or implied, is given regarding the accuracy, currency or completeness of the information contained in it. Health professionals must rely on their own expertise and inquiries, taking into account the individual circumstances of each patient when providing medical advice or treatment.

To the extent permitted by law, the Authors are not liable (including as a result of negligence) for any loss, damage or injury resulting from reliance on or use of the information contained in this report.

This report is based on information available at the time of research and is not intended to cover all developments arising from subsequent discoveries related to health properties of the subject matter. This report is based on a literature search as referred to in the indexes and references and is not a definitive statement on the safety or effectiveness of the health aspects covered.

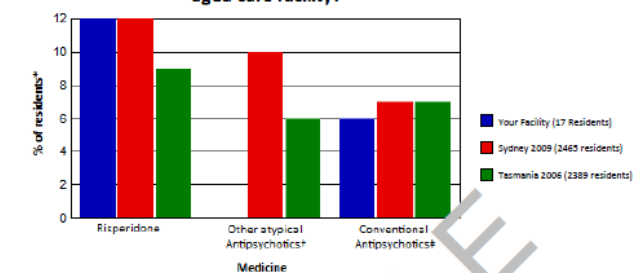
Date of Report: 12/02/2016

Facility Sections: SG

Antipsychotic use at your residential aged care facility

Graph 1

What regular antipsychotics are used in your aged care facility?



* Some residents may be using more than one antipsychotic medicine.

† Other atypical antipsychotics include amisulpride, aripiprazole, asenapine, clozapine, olanzapine, paliperidone, quetiapine, sertindole, ziprasidone.

‡ Conventional antipsychotics include chlorpromazine, droperidol, flupenthixol, fluphenazine, haloperidol, pericyazine, trifluoperazine and zuclopenthixol.

Interpreting Graph 1

Graph 1 shows your RACF antipsychotic use compared with two other drug surveys from the literature.^{2,10} The drug surveys were from a sample of RACFs in Sydney (44 RACFs)¹⁰ and Tasmania (40 RACFs)² and do not indicate best practice or a particular target or benchmark. Rather they are an average of the percentage of residents receiving antipsychotics (for all conditions) in each group and are provided as a comparison.

Please note the limitations of this data. The data from the studies includes residents using 'as required' (or PRN) medicines regularly, but it was not possible to include this in your data. Your electronic data in this graph does not show residents prescribed 'as required' medicines as it cannot be determined how frequently these medicines are administered. However, a list of residents prescribed 'as required' antipsychotics is in this report to facilitate review of dosing frequency.

Antipsychotics are only recommended for behavioural and psychological symptoms of dementia if aggression or psychotic symptoms are causing severe distress or an immediate risk of harm. If an antipsychotic is trialled, risperidone has the most evidence in managing behavioural and psychological symptoms of dementia and is PBS listed for this indication. Olanzapine is an alternative but is not currently TGA approved nor PBS listed for this indication.

4,8

Drug Burden Report

Clinical Reporting

RESIDENT LIST

Sunshine Gardens Nursing Home

Anticholinergic burden impact score of prescribed medicines plus sedative alert

Medication	Generic name	ACBI score	Notes
Norma POTTER			
Adalat 10mg Tablet	<i>nifedipine</i>	1	
Stelax 25mg Tablet	<i>baclofen</i>	2	
Valpam 5mg Tablet	<i>diazepam</i>	1	
		ACBI Total	4
ALERT!		Resident is prescribed a sedative:	Valpam 5mg Tablet 1 bedtime
Catherine WILSON			
Efexor-XR 75mg Capsule	<i>venlafaxine</i>	1	
Unisom Sleepgels 50mg Capsule	<i>diphenhydramine</i>	3	
		ACBI Total	4
Mary BUXTON			
Coumadin 2mg Tablet	<i>warfarin</i>	1	
Sigmacort 1% Cream	<i>hydrocortisone</i>	1	
		ACBI Total	2
Elizabeth GREY			
Cipramil 20mg Tablet	<i>citalopram</i>	1	
Panafcortelone 1mg Tablet	<i>prednisolone</i>	1	
		ACBI Total	2

Clinical Reporting

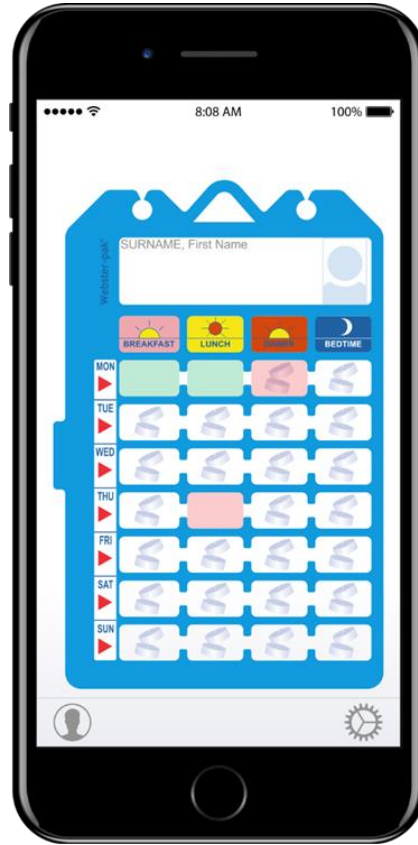
Date range: 1 January 2019 to 13 March 2019

Moore Street Gardens

Drug	Started	Ceased	Dosage	B	L	D	B	Status
Aricept 10mg Tab (Donepezil HCl)	03-May-2016		1 dinner			1		Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Axit 30mgTab (Milnacipine)	03-May-2016		1 bedtime				1	Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Coloxyl/SennaTab (Picosulfate - GenAUB)	29-Jun-2018		1 pm BNO 3 days					Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Coumadin1mgTab (Warfarin)	03-May-2016		1 alt dinner			1		Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Coumadin2mgTab (Warfarin)	03-May-2016		1 dinner			1		Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Duphalac(Syr) (Lactulose)	03-May-2016		10ml 2x daily	10m		10m		Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
GlucaGen-Hypokt1mglnj (Glucagon HCl)	05-Jul-2018		1if BLG less 3mmol					Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Lantus 100IU/mL 3mL (insulin, glargine)	03-May-2016		10 units at bedtime				10	Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Norspan 10mcg/hrTranPatch (Buprenorphine)	10-May-2016		1 weekly (Mon)	1				Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
NovoRapid FlexPen (insulin, aspart)	03-May-2016		6 units morning	6				Current
NovoRapid FlexPen (insulin, aspart)	03-May-2016		8 units lunch		8			Current
NovoRapid FlexPen (insulin, aspart)	03-May-2016		4 units at dinner			4		Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Oroxine50mcgTb (Thyroxine)	03-May-2016		1 alt morning	1				Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Paralgin500mgTb (Paracetamol)	03-May-2016		2 4x daily	2	2	2	2	Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Pariet10mgTab (Rabeprazole Na)	03-May-2016		1 morning	1				Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
Pramin 10mg Tab (Metoclopramide)	03-May-2016		1 at 7.30am	1				Current
Drug	Started	Ceased	Dosage	B	L	D	B	Status
TwoCalHNLiquid	03-May-2016		60mls 2x daily	60m		60m		Current

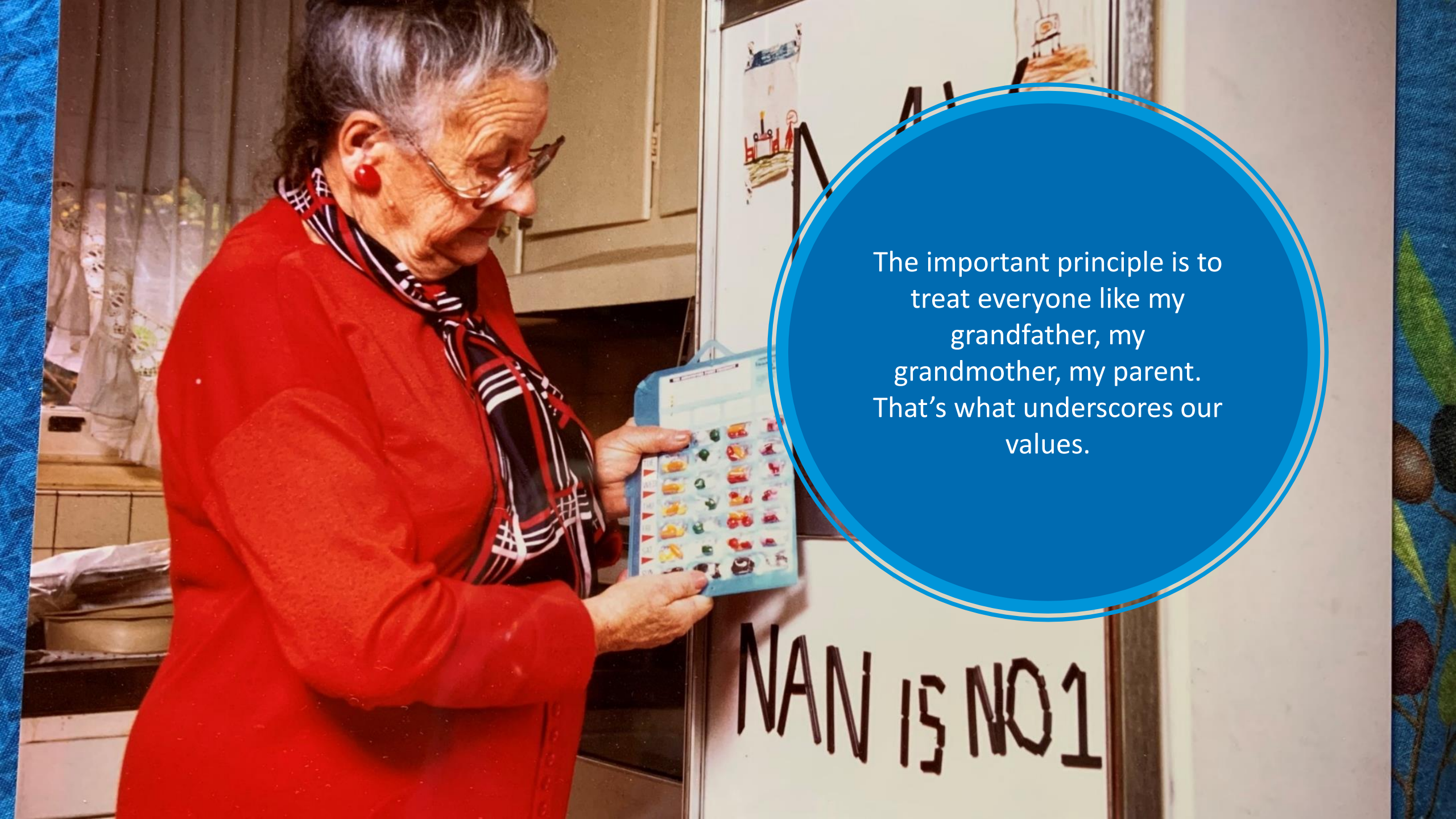
Portion-Pak®





Medication Adherence Monitor

Carers can check adherence remotely using a mobile phone app.

A photograph of an elderly woman with short grey hair, wearing glasses, a red jacket, and a black and white striped scarf. She is holding a small calendar or photo album and looking at it. The background shows a kitchen with a whiteboard that has the text "NAN IS NO1" written on it. A large blue circular overlay is positioned on the right side of the image, containing white text.

The important principle is to
treat everyone like my
grandfather, my
grandmother, my parent.
That's what underscores our
values.