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- Princes Court Background
- How Princes Court became part of the latest research and innovation
- How the role of a tACP benefits residents/Princes Court/others.
- What are the outcomes of the research gathered in improving care for older people?
- Service & Practice Development Plan: Princes Court Year 2023

# AIM of this session

- ALM: Assistive Living Monitoring
- RITA: Reminisce Interactive Therapy Activities
- tACP: trainee Advanced Clinical Practitioner
- ICB: North East and North Cumbria Integrated Care Board
- EnCOP: Enhanced Care of Older People

# Background: Common Terms

# Background: Princes Court

Show and Tell: ALM and RITA research update



# Hedley Road, Percy Main NE29 6XP · 0191 296 3354

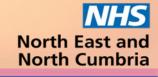
- Prince's Court Care Home is situated in North Shields, a short drive from Newcastle and close to the Royal Quays Marina.
- 74 bedded purpose-built care home for nursing, residential and rehab units.

- Introduction of tACP (Advanced Clinical Practitioner) working in the Nursing Home.
- Introduction of ALM (Assistive Living Monitoring) & RITA as part of the research and data collection.
- Evidence collected from the audits of care
- 2023: Service & Practice Development Plan: Princes Court

# Background: Where it all Started

Show and Tell: ALM research update







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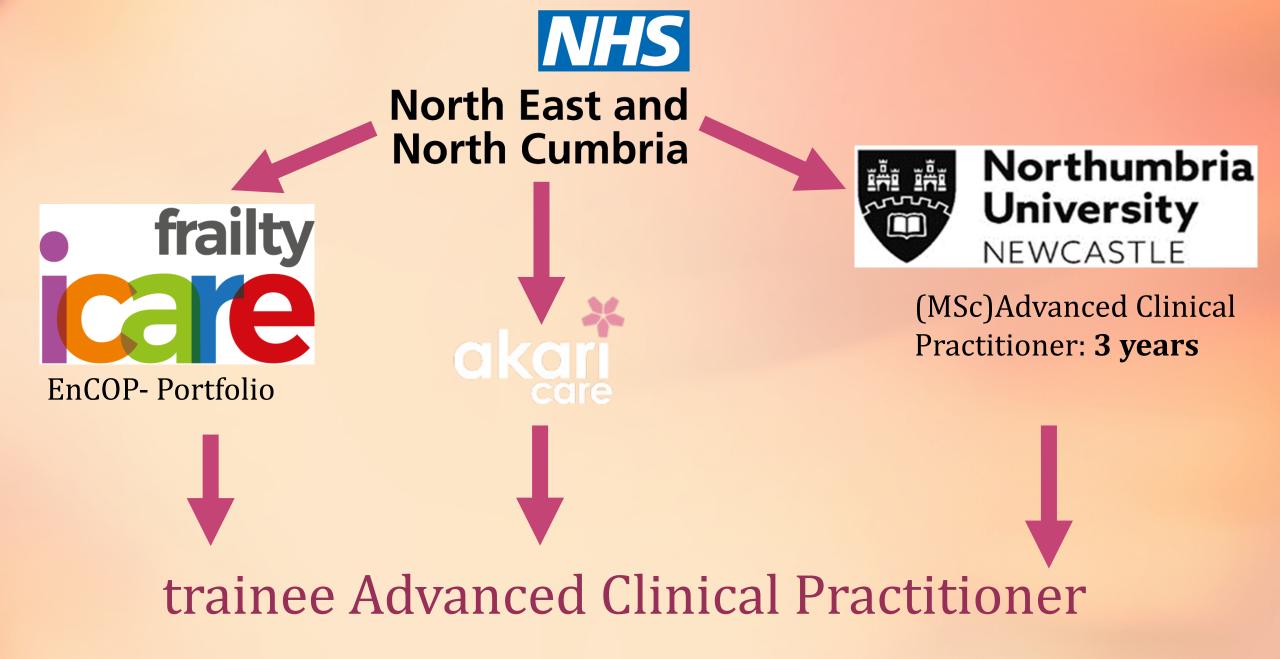
#### trainee Advance Clinical Practitioner (Akari Care)

- ICB: North East and North Cumbria Integrated Care Board
- Partnership with Akari Care
- EnCOP- Portfolio
- Advanced Clinical Practitioner (MSc): Northumbria University

## Research and Innovation

Show and Tell: ALM research update





Show and Tell: ALM research update

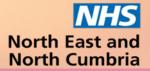


# **ALM (Assistive Living Monitoring): 1st Quarter of 2022**

ALM is a non-invasive monitoring system promoting quality and safety whilst supporting independence

Preventative = proactive well-being support
Reactive = Non-invasive monitoring and alerting support





#### Research and Innovation Show and Tell: ALM and RITA research update

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# ALM (Assistive Living Monitoring): 1st Quarter of 2022



Preventative: proactive well-being support

**Reactive:** Non-invasive monitoring and alerting support are embedded in the *six rooms* of Princes Court







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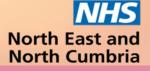


**ALM (Assistive Living Monitoring): Preventive and Reactive technologies** 



- Sensory lighting to enhance mood and wellbeing
- Rehabilitation and Interactive Therapeutic Activities (RITA) Digital Touch Screens enhancing the quality of life and wellbeing
- Microwave and thermographic monitoring to see inside a room without the need for invasive CCTV (alerting staff of any falls)
- Acoustic monitoring to alert staff if there is a distressed or agitated service user





Research and Innovation Show and Tell: ALM and RITA research update

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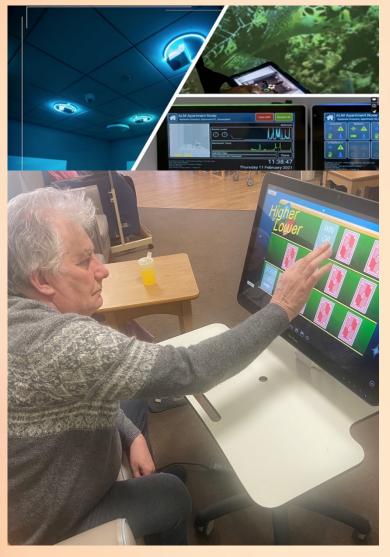












- Behaviour
- Falls events
- Nutrition
- Early detection of falls

 Legend: EXPOSURE TIME WITH ALM-RITA: January- September 2022

 1-6 hours
 6-12 hours
 >12 hours
 Updated: 27/09/2022

Research and Innovation

Show and Tell: ALM and RITA research update.



My Quality of Life



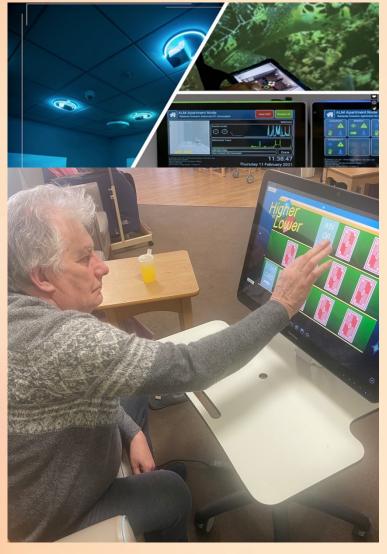
Legend:	Legend: EXPOSURE TIME WITH ALM-RITA: January- September 2022							
-6 hours	6-12 hours	>12 hours	Updated: 27/09/2022					

	TABLE 3 NUTRITIONAL AUDIT on PRINCES COURT in Kilograms								
8-A PATIENT	JANUARY	FEBRUARY	MARCH	APRIL	<b>MAY</b> 14/0	6/2022 <b>JU/NE</b>	JULY	AUG	SEPT
9-A				30.35	30.90	30.45 30.95	31.60 30.85	31.95 31.8 32.5	
16-A									
21-A	69.6 66.2			64.5		61			
10-A					58.45 57	58.9	58.9 58.9	60.5	58.75 59.4
44-A									
12-W			50	48.90	52.05	48.5 41.4 67.8	48 48	49.8	49.75
20-W	70.65 71		65.10 69.5	69.50	67.80 68.2	67.8 66.8 #	66.8 #	66.8 #	66.8 67.2
27-W	50.10 48.80	48.48 47.40	45.40 46 48.40	48.40	48.50 47.50	48.10 46.80	47.40 47.20 47.40	47.75 47.85	48.8 48.3 50.45 49.8 49.8
24-W	39.40 40.80 41.05	40.85 41.50	38.50 40.60	40.20 40.40	40.80 40.20	39.80 39.60 39.90	39.40	40.85 40.85 40.85 39.55	39.55 38.75 37.7 ##
7-W							70.25 69.7	68	67.1 ###
19-W					68.80	68.80	68.25 68.2 68.3	68.3 69	66 #### 66
8-A	89.50	89.50	90.95	90.95	93.10	93.1 94.6	94.7 94.7	94.2	96.3
21-W	48.55 50.55	52.70 56.45 57.05	55.06 55.80 55.60	57	57 57.3	55.9	56	56	56

Research and Innov

Show and Tell: ALM and RITA research update.

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- Behaviour
- Falls
- Nutrition
- Early detection of falls

Legend: EXPOSURE TIME WITH ALM-RITA: January- September 2022						
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			NH			

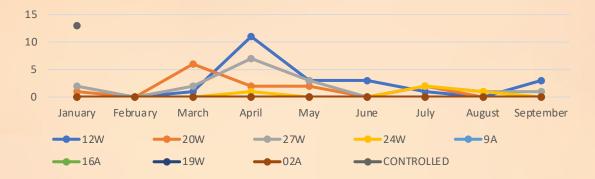
Research and Innovation

Show and Tell: ALM and RITA research update.



North East and

Episodes of behavioural changes of residents at Princes Court from January-September 2022 (ALM-RITA experience between 1-6 hours)



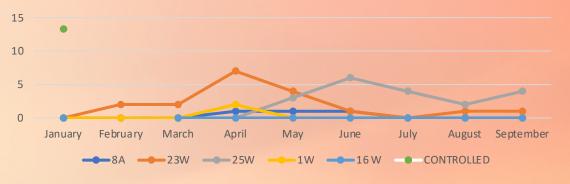
Episodes of behavioural changes of residents at Princes Court from January-September 2022

(ALM-RITA expereince between >12 hours)



Episodes of behavioural changes of residents at Princes Court from January-September 2022

(ALM-RITA experience between 6-12 hours)



<b>EXPOSURE TIME WITH ALM-RITA: January- Sept 2022</b>						
1-6 hours	6-12 hours	>12 hours	Updated: 27/09/2022			















Episodes of behavioural changes of residents at Princes Court from January-September 2022 (ALM-RITA experience be ween 1-6 hours)



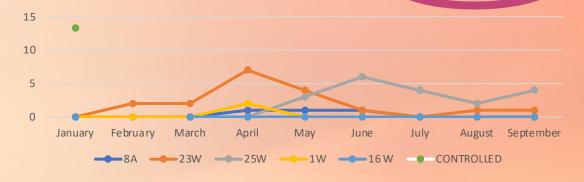
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Episodes of behavioural changes of residents at Princes Court from January-September 2022

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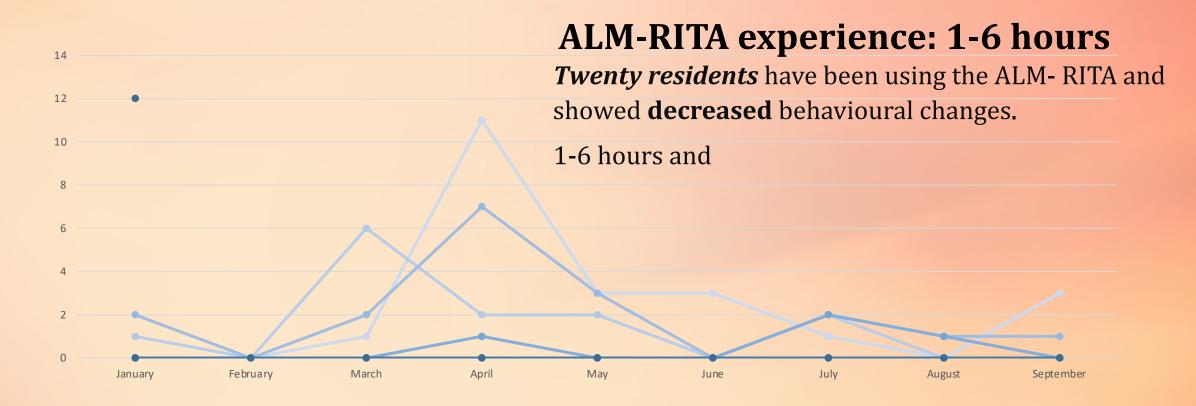




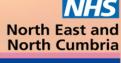
















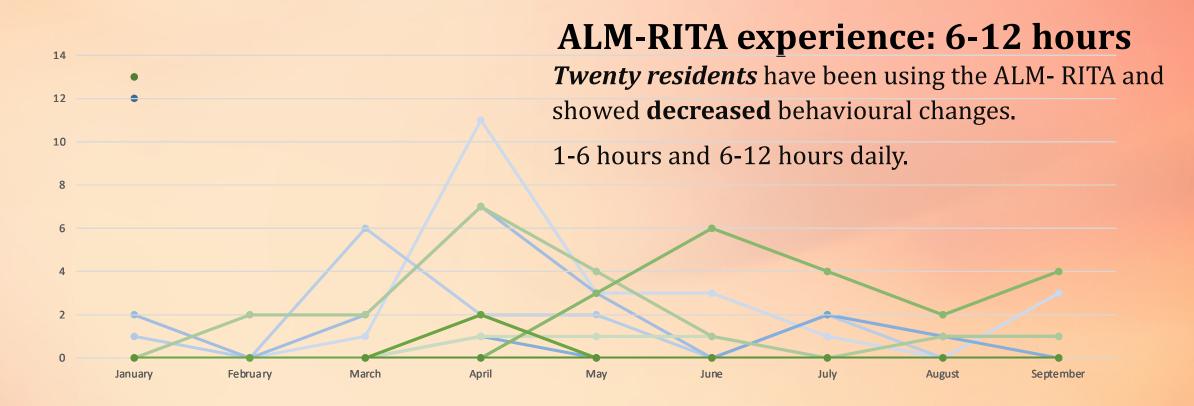




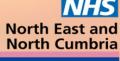




#### Research and Innovation













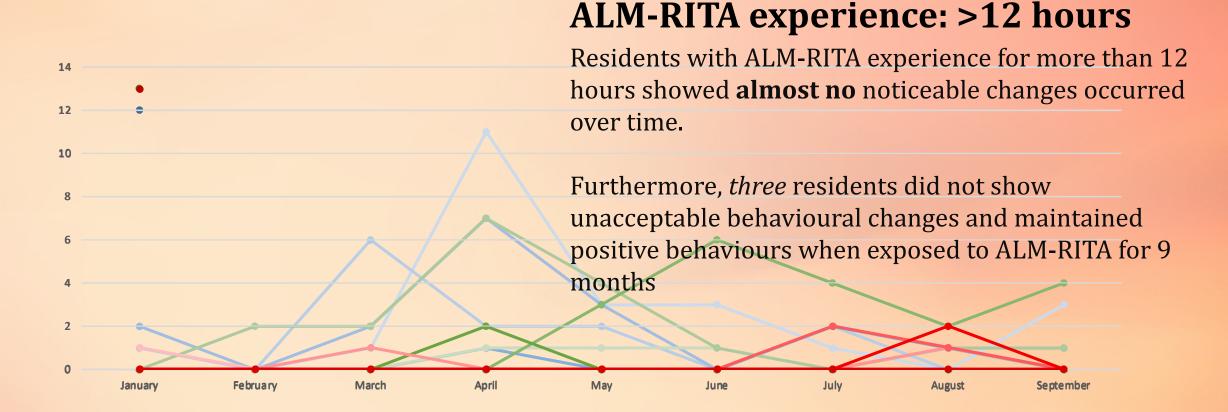
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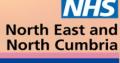




#### Research and Innovation











#### Lesser ALM-RITA experience







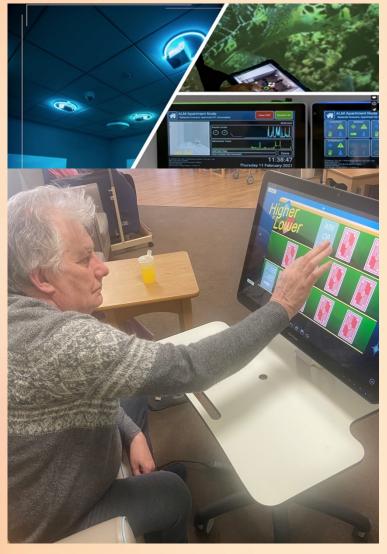
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- Behaviour
- Falls
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Legend: EXPOSURE TIME WITH ALM-RITA: January- September 2022						
1-6 hours	6-12 hours	>12 hours	Updated: 27/09/2022			

Research and Innovation

Show and Tell: ALM and RITA research update.



**North East and** 

#### ALM's Preventative: proactive well-being support: Falls Trend

Number of Falls from January-September 2022 (RITA experience for 1-6 hours)



Further analysis and investigation was undertaken for Patient 23W which is the outlier. This patient presented significant behaviours that challenge and was deemed a high falls risk. These falls took place during the night time when RITA was not in use.

This investigation has been useful because the team are going to assess the impact of introducing RITA at night times with scenarios with Patients similar to Patient 23W in the future

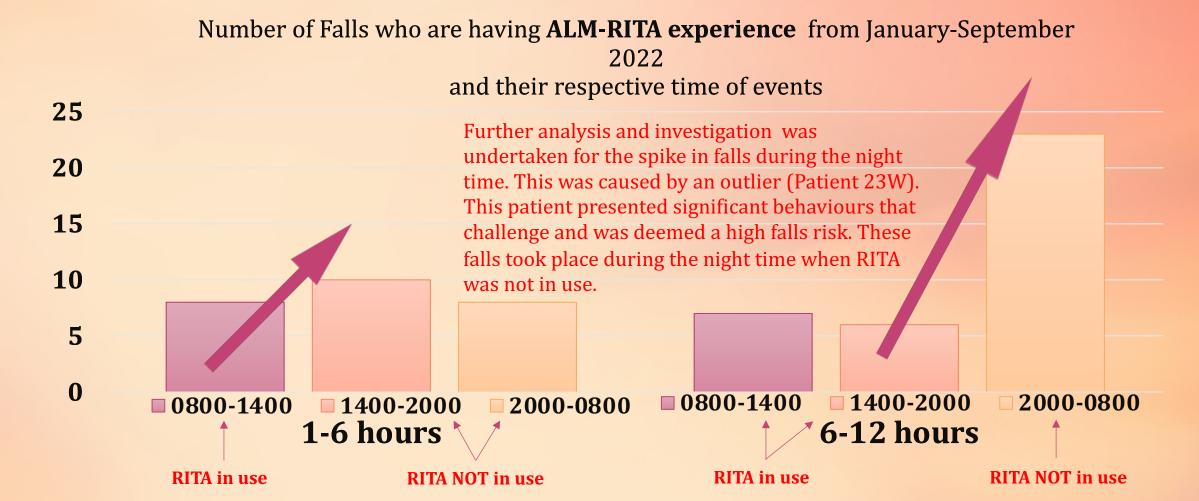
Number of Falls from January-September 2022 (RITA experience for 6-12 hours)



# Research and Innovation



## ALM's Preventative: proactive well-being support: January- Sept 2022







#### ALM's Preventative: proactive well-being support: January to Sept 2022



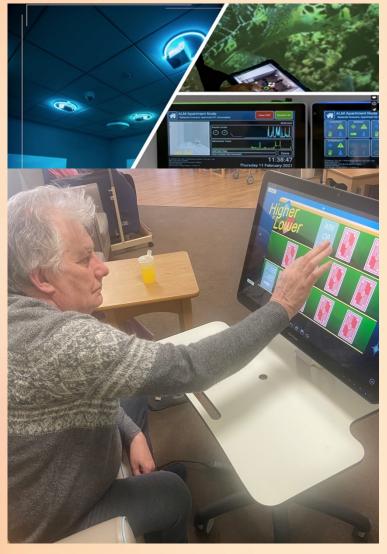
In summary: As illustrated from the bar graph.

A Falls analysis has shown that sixteen residents using the RITA showed decreased falls during the RITA experience. However, when the RITA experience stops, an *increased* incidence of falls is noted.



## Research and Innovation





- Behaviour
- Falls
- Nutrition
- Early detection of falls

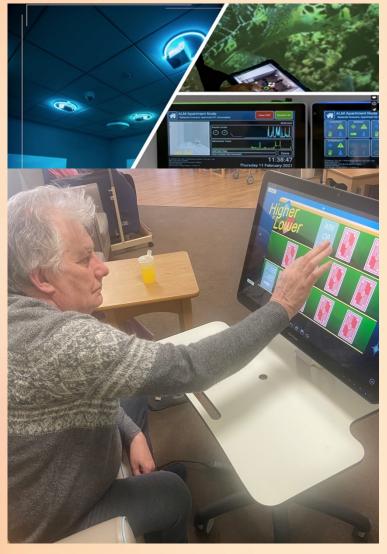
Legend: EXPOSURE TIME WITH ALM-RITA: January- September 2022						
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			NHS			

#### Research and Innovation

Show and Tell: ALM and RITA research update.



**North East and** 



- Behaviour
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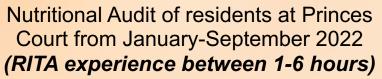
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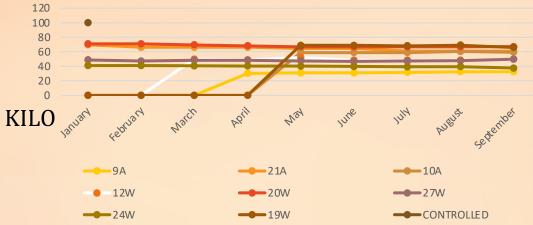
#### Research and Innovation

Show and Tell: ALM and RITA research update.



**North East and** 





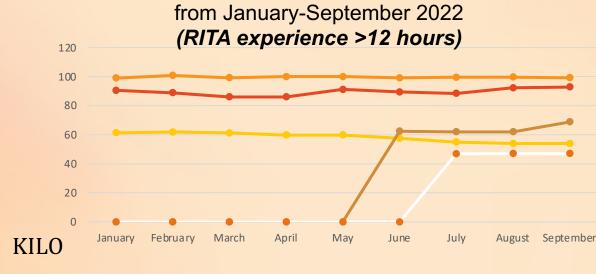
# Nutritional Audit of residents at Princes Court from January-September 2022 (RITA experience between 6-12 hours)



In summary: As illustrated from the line graph.

A Weight Audit has shown that 27 residents using the ALM-RITA showed increasing weight during the ALM-RITA experience.

However, despite the ALM-RITA experience, the resident's weight is affected when they become *acutely unwell* and start to *deteriorate* 



45A ——4W ——10W

● 15W **● 3**W

Nutritional Audit of residents at Princes Court



# **ALM's Preventative:** proactive well-being support: January to Sept 2022 ALM's Versatility



ALM-SENSORY/RITA were placed around the nursing home.

- Hot spots
- During EOL



Research and Innovation

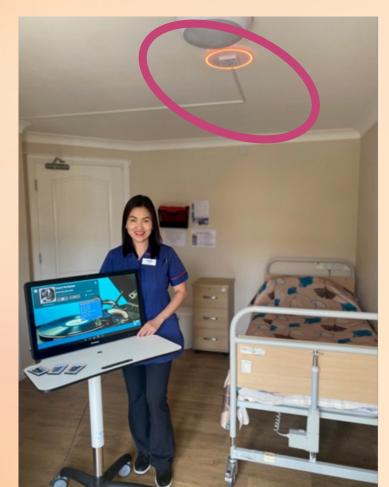
Show and Tell: ALM and RITA research update.



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#### **ALM's Preventative:** proactive well-being support: January to Sept 2022

**SENSORY-ALM** 



"The sensory lighting and choice of colours at night-time helps them sleep."





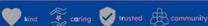














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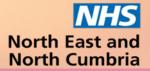


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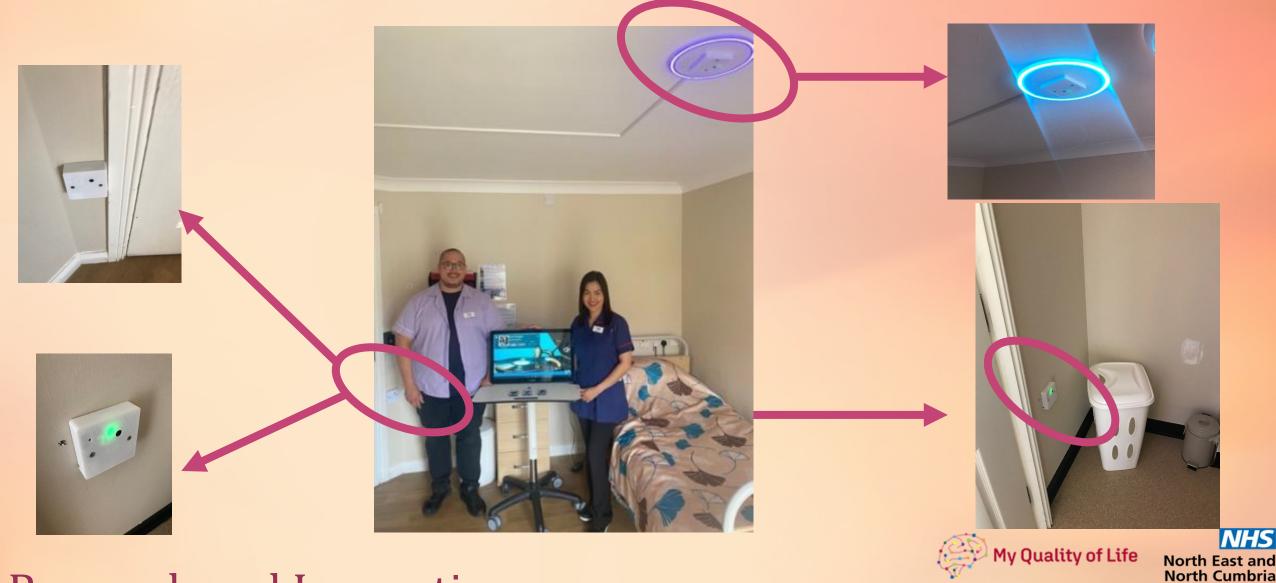






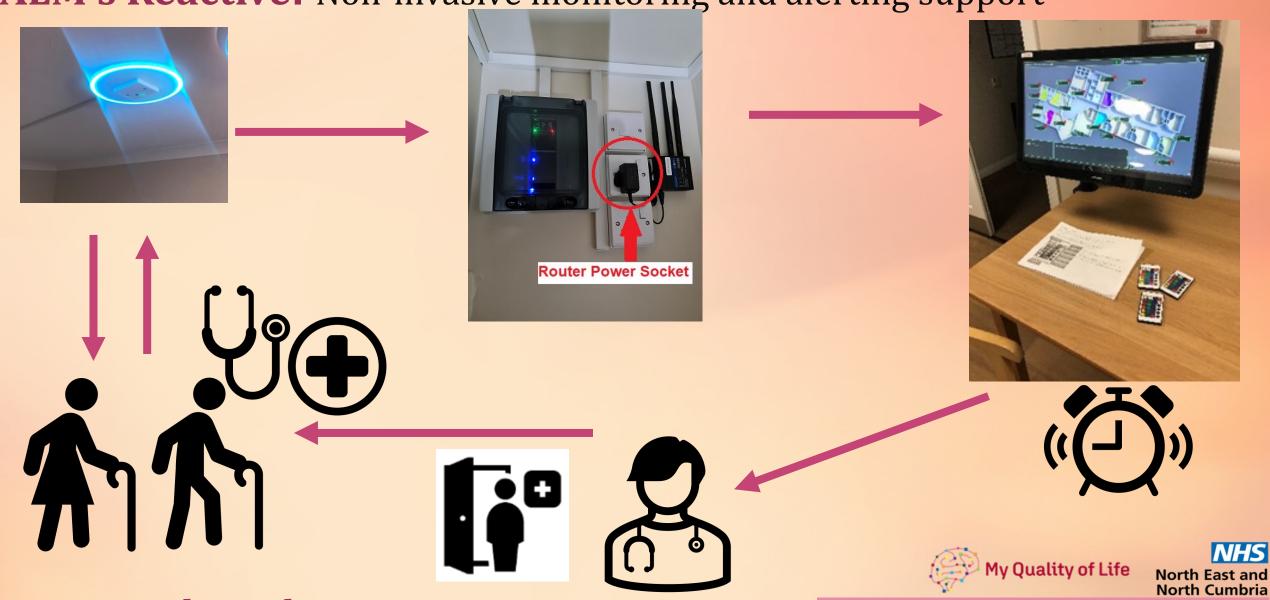


## Research and Innovation



## Research and Innovation





Research and Innovation Show and Tell: ALM and RITA research update.

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kind & caring trusted community



#### 6 Rooms have an ALM-MONITORING/ALERTING SUPPORT

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
30-RQ			25/03/2022 14:30						
26-RQ						12/06/2022 03:00			
32-RQ1				24/04/2022 12:40					
40-RQ1							06/07/2022 17:15		
40-RQ2								22/08/2022 06:20	
32-RQ2									13/09/202 . 03:45
40-RQ3									22′ 3/2022 17:00
Legend:	ALM- not alarmed	NO documentatio n from staff	Detected by ALM	SIX rooms that 22, 26, 30, 32, 3	have ALM at RQ 9, 40				

#### In summary:

The system has detected **five** falls. Two of these were in the *middle of the night*. Staff immediately attended to the patients and rapid responses were addressed.



Show and Tell: ALM and RITA research update.



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#### 6 Rooms have an ALM-MONITORING/ALERTING SUPPORT

- Response time increases: below 1 minute
- Added reassurance, especially during the evening and if the patient is isolated (door closed).
- An "extra layer" of care for the patient
- Not intrusive, ensure privacy and dignity with its patients and does not record conversations or film patients.
- Staff can immediately act on an incident, especially during the evenings wherein patients are at higher risk of falls.







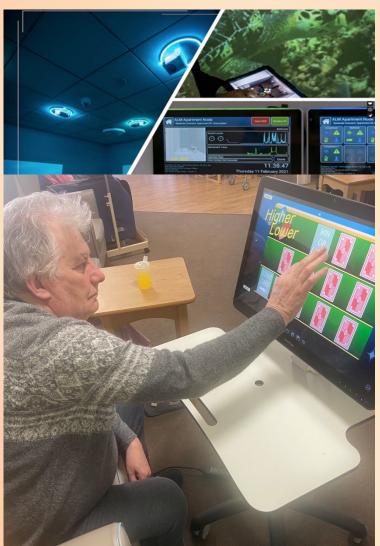








#### Research and Innovation



RITA Award: 'Gold' in reducing challenging behaviours

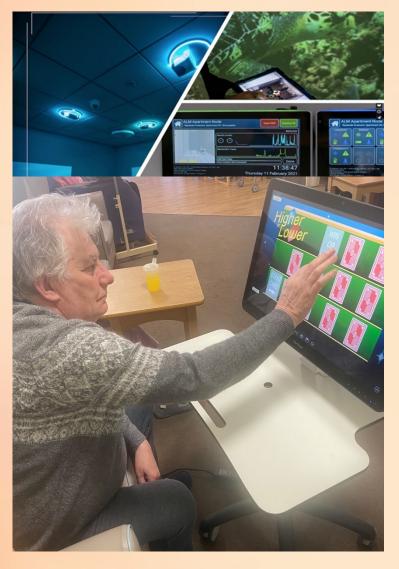


#### Research and Innovation

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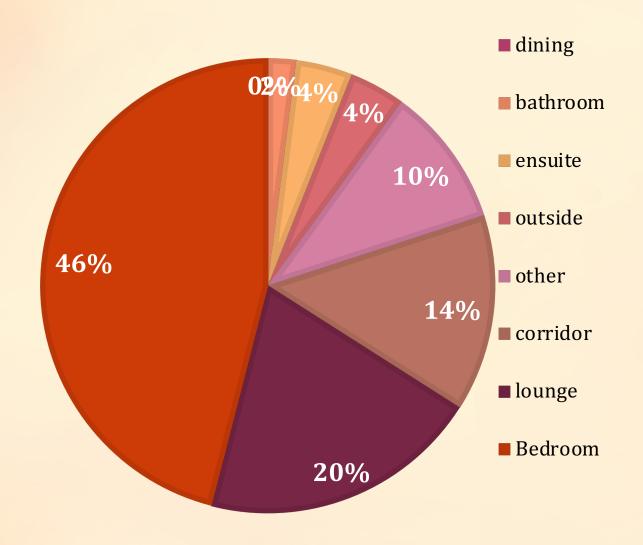


#### Introduction of a 'new' ALM Version 2

- Intricate data collections tools will be used
- Staff, champions, and stakeholders (i.e. ICB, GP) involvement
- Continuous support and guidance from Northumbria University, EnCOP, Practise supervisor, and assessor during the MSc: Year 2





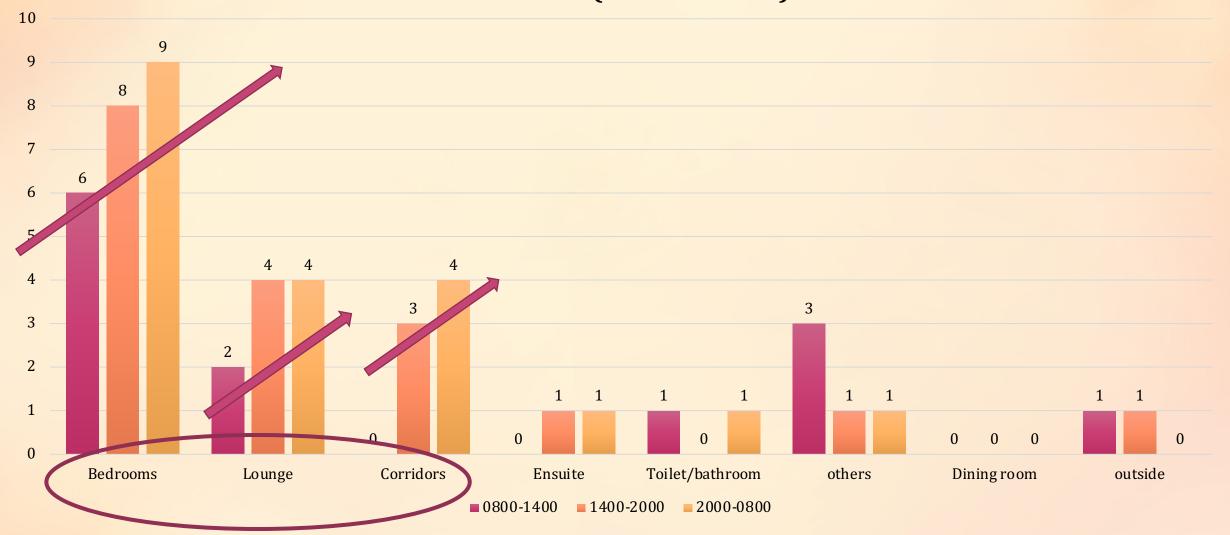


# Princes Court: Falls: Sept-Nov 2022: "WHERE"

Bedrooms	46%
Lounge areas	20%
Corridors	14%

#### Data collection to see the effectiveness: "WHERE and WHEN"

#### 3 MONTHS FALL ANALYSIS (SEPT-NOV '22): PLACE & TIME



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#### Patented Sensor - Five Types of Monitoring

# Thermographic

Non-invasive way of seeing inside a room through thermal heat. Reports movement and falls immediately

#### **Heart Rate**



Provides constant heart rate for an individual and triggers alarm system if HR goes outside chosen parameter

#### **Respiratory Rate**



Provides constant respiratory rate for an individual and triggers alarm system is breathing rate goes outside of chosen paramater



#### • Plug in, mobile, flexible

- No wiring or installation required
- No skin contact required

#### **Acoustic**



Proprietary audio analysis algorithm measures sound levels every 20 milliseconds. Any shouting or screaming notifies staff immediately

#### Microwa e & LiDAR

velocity data to alert if a service user moves, climbs the frame, leaves the bed or falls onto the floor

#### ALM-V2

# Monitoring/Alerting RITA Sensory

The *plug-in* sensor is mobile and only requires main power and reports *wirelessly*.

The reporting portal is *flexible*; Staff carries around a *small PDA*, which triggers *an alarm* if any of the monitoring events occur.

Alternatively, they can download a *reporting app* onto their phones.



ALM-2

#### REFERENCES:

(1) Mike Hamilton | LinkedIn

(4) NHSNorthCumbria (@NHSNorthCumbria) / Twitter

ACP-Primary-Care-Nurse-Fwk-2020.pdf (skillsforhealth.org.uk)

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Advanced Clinical Practitioner MSc (northumbria.ac.uk)

Care Home in North Shields, Tyne and Wear | Prince's Court | Akari Care - High-quality Care Homes

Enhanced Care of Older People (EnCOP) Competency Framework « I-Care (frailtyicare.org.uk)

Home:: North Cumbria CCG (icb.nhs.uk)

https://www.advancedpractice.scot.nhs.uk/education/pillars-of-practice.aspx

Launch of the North East and North Cumbria Integrated Care Board (ICB) :: North Cumbria CCG

multi-professionalframeworkforadvancedclinicalpracticeinengland (1).pdf (sharepoint.com)

My QoL | Innovative interventions for people with complex needs

Prince's Court care home, Hedley Road, Royal Quays, North Shields, Tyne & Wear NE29 6XP | 45 Reviews

RITA Awards Ceremony.mp4 (sharepoint.com)

