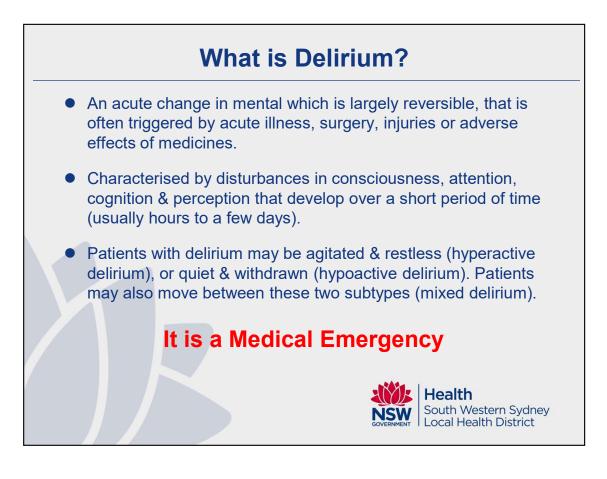


• This presentation has been designed to provide education about Delirium, Delirium Screening and Assessment and the use of the Delirium Risk Assessment Tool (DRAT) and 4AT tool inline with the Delirium Clinical Care standard and National Standard 5, Comprehensive Care to ensure that risk of harm for patients during health care are prevented and managed.



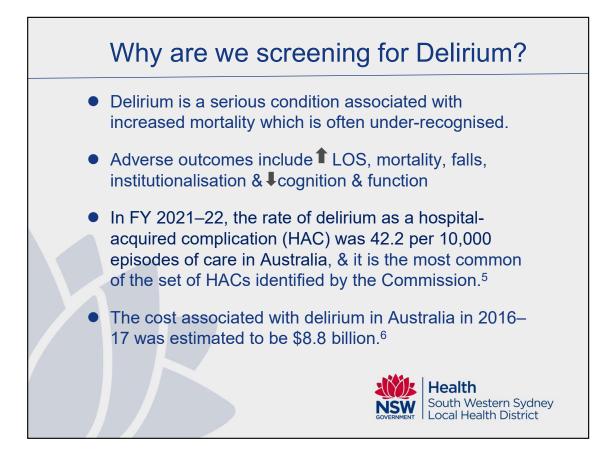
So what is delirium?

Delirium is an acute change in mental state, that is characterised by a disturbance in consciousness, attention, cognition and perception.

It develops over a short period of time, usually hours to days and is considered a medical emergency. It is often missed or misdiaganosed as dementia.

Delirium is often triggered by an acute illness, surgery, injuries or adverse effects of medication and is reversible if the underlying cause is treated.

30-40% of all deliriums are preventable if simple person centred care strategies are implemented on admission to your ward.



Why is it essential to screen for delirium?

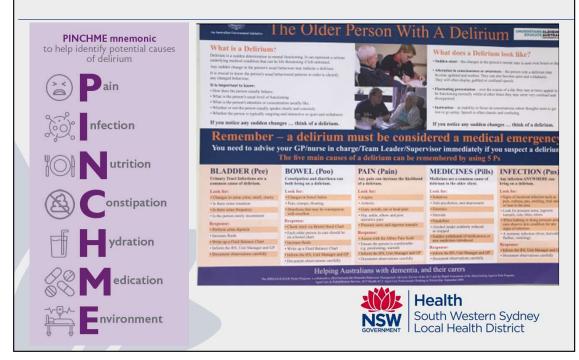
Delirium is associated and an independent predictor for multiple adverse outcomes:

Patients with delirium have increased mortality rates, increased lengths of stays, higher risk of injurious falls, Increased risk of institutionalisation post discharge and a decrease in cognition and functioning.

In 2021-22, the rate of delirium as a hospital- acquired complication (HAC) was 42.2 per 10,000.00 admissions Nationally and according to the Australian Commission on Safety and Quality, is the most common HAC identified.

And finally The cost associated with delirium in Australia in 2016-17 was estimated to be \$8.8 billion dollars annually.

Common causes of Delirium- 2 useful Mnemonics



So what are some of the most common causes of delirium. These two mneumonics shown here can assist us in identifying potential causes.

It is important to remember the causes of delirium are generally multifactorial and can coexist together.

The PINCHME aronym stands for pain, infection, nutrition, constipation, hydration, medication and the environment

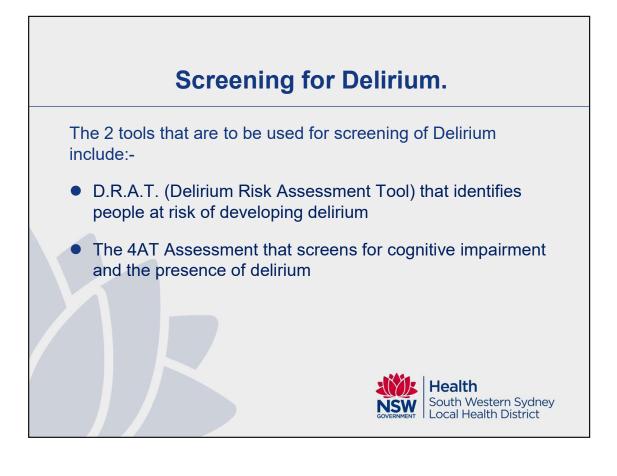
While the 5ps stands for pee, poo, pain, pills and pus.

As you can see many of these causes can be minimised or prevented with simple, yet effective person centred care strategies.

For example if your patient has pain administer analgesia, if they are constipated they will aperients, if they are dehydrated rehydrate and ensure you maintain a fluid balance chart to monitor hyration status.

In terms of the environment use noise reduction strategies and avoid multiple room changes.

Like all health care provision collaboration with family and carers is essential.



How do we screen for delirium?

To screen and assess for delirium a validated tool is required in accordance to the Delirium Clinical Standards 2021.

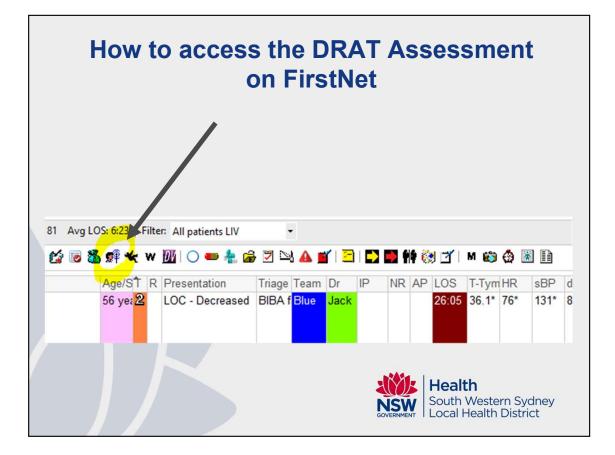
The DRAT (Delirium Risk Assessment Tool) identifies **key risk factors** that predispose the patient to delirium, and risk factors that may precipitate or trigger delirium and recommends further investigations, if there is a change in behaviour.

It is to be performed on all adult patients upon arrival to the ED, in the pre admission clinic or within 24 hours of presentation to hospital for admitted patients.

The 4AT is a Validated screening instrument designed for the initial rapid assessment of delirium and cognitive impairment and should be completed on all patients who have identified Key risk factors.

Inda		1001				a
ContinuousDoc Clinical Nation	Patient Information		Vital Signs/Observations v	11 y	Non-Pathology Orders Pending (1)	
Form Browser	Attending Physician:	JAHAN, ISHRAT (Consultant)	Assessment Scores (1) + +	E• 🗸	New Order Entry	
Documentation	Specialty: Admt Date:	GERGATRIC MEDICINE 27/15/22	Provide and the second s			
) Ven	GP(This Admission):	GP, NOT KNOWN (No results found)	Lines, Tubes, and Drains (1)		Overdue Tasks (0)	=+ ¢
87F Observation Chart	List Volt	23/05/22 (Outputient AC & MH UF)	Intake and Output		Clinical Notes (274)	1.0
Orders	Aborgnality: Interpreter required:	Nether N	anane and opper.		Constant House (12-4)	
Patient Encounter Information 17	Country of Birth:	AUSTRALIA	Outstanding Pathology Orders (8)	≣• €	Document Launcher 🙎	
Peroperative Communication	Preferred Language:	ENGLISH			Spatiete Generale Burstere	
Diagnoses, Allerts & Ongoing Prob.	Service Category: Financial Case:	Maintenance Care MNIV-Public Patient	Pathology Results	1. .		
Histories	NOS Satur:	concentration of the second	Pathology Reports (0)	≡•�	a General Progress Notes	
Allergies & Adverse Reactions (42)	a Det and Activity (1)	and the second second second	and a second sec		⊿ koesterts	
Medication List 4 Add	Soft - Dental Det	29/05/2022 12:49:00 AEST	Microbiology/Serology Results	II • 😜	Wite/ow Assessment.	Confusion Assessment Method (CAN).
Medication Alet Hatory	# Emergency Centad (1) EVERS, Deborah:	0404 658077			Falls Risk Assessment Abbreviated Health Test (AMTS)	Post Fall Management Mainutation Screening Tool
Medication Request Summary			Medical Imaging Results (1)	=••	Delinum Risk Assessment Tool (DRAT)	Rendered Screening Tool
MULT .	Allergies & Adverse Reactions (ADR) (1) 🕂	E* 4		SW19H Screen	A Stifution Science
Mail Summary	Alints				⊿ Additionul Faols	
Contractory of the second s	NA	-			Alcohol Withdrawal Scale Controlensive Care Plan	Mex - Adult Observations Wound Care Headst & Weight Form.
High Risk Medications					Patient Belongings & Valuables Checking	Transfer of Care Decklot
Pregnancy Summary Report	Alerts (1) 🔹		- C			
Patient Schedule	Al risks				Healtheliet	1× (
Tek List	Resuscitation Plan				Medications	11.5
Advanced Graphing					Medications	
Advanced Growth Chart	Diagnosis & Problems (1) 💠	1	I* ^		Patient Imaging Folder SWSLHD	1.
Community Client Summary	# Diagnosies (This Visit / Selected Visit)				Patient Imaging Folder	
Renal Patient Summary	Diagnosis	Code Classification Status			vicer inspire room	
Oncology and Hermatology	Confused	1494724015 Medical Active				
MuttMedia Manager	A Chronic Problems (Across Visits) Problem	Code Classification Status				

For those Clinicians working on the wards within the hospital setting, The DRAT is located on the Patient Summary on EMR under the assessment heading on the right hand column of the screen as shown here on this slide.



If you are working in the Emergency Department, the DRAT is located on the Firstnet tool bar as shown here on this slide.

÷.	oulations are at risk of delirium							
	A 🕲 🗄 + 📾 🗒 🖳							
	ed on: 1/1/07/2022 🕏 v 1223 🗟 AEST By: Stott, Katrina (Clinical Nurs							
Delinum Ra	Delirium Risk Assessment Tool (DRAT)							
	Pre morbid risk factors Precipitating factors - Sensoy Impairment (bind, wears glasses, had of having, wears fasing add, prestoycuril) ? \overlap in the impairment (bind, wears glasses, had of having, wears fasing add, prestoycuril) ? \overlap in the impairment (bind, wears glasses, had of having, wears fasing add, prestoycuril) ? \overlap in the impairment / wears glasses, had of having, meetal wears or cognitive detail? \overlap in the impairment / wash (2500 or pash histoy of memory or cognitive detail?) \overlap in the impairment / wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histoy of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash histo) of memory or cognitive detail in wash (2500 or pash (2500 or pa							
	Delirium Prevention and Management Protocol							
	Completed "Completed Communication & Case Due: Towns of Laboration and a Management of Cooling Search and							

This is a copy of the DRAT, As you can see It highlights pre morbid risk factors, precipitating factors at top of the document as awell as prompts for prevention and management strategies

A score of 0 is considered low risk, 1-2 medium risk and greater than 3 is a high risk .

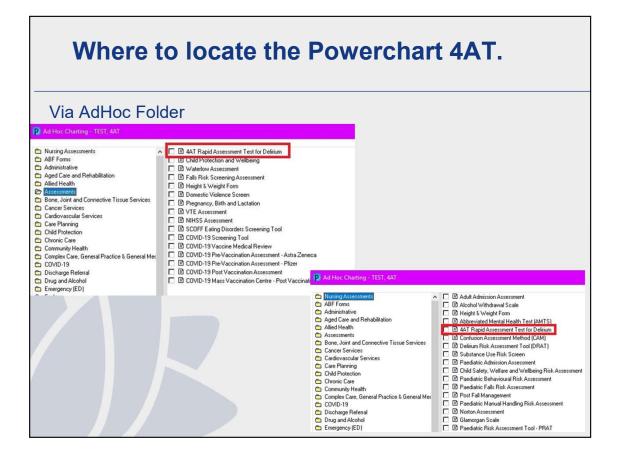
Delirium prevention strategies should be implemented on all patients who score greater than 1.

Please be mindful however All patients over the age of 70 or 50 for First nations people are at risk of devloping delirium and require delirium prevention care strategies implemented regardless of score.

′ia D	ocument Launcher		
	Document Launcher 🚦	≡•⊗	
	Inpatient General Nursing		
	⊿ General		
	Progress Note		
	⊿ Assessments		
	Waterlow Assessment	Confusion Assessment Method (CAM)	
	4AT Rapid Assessment Test for Delirium	Falls Risk Assessment	
	Post Fall Management	Abbreviated Mental Health Test (AMTS)	
	Malnutrition Screening Tool	Delirium Risk Assessment Tool (DRAT)	
	Substance Use Risk Screen	SWISH Screen	
	ASSIST Swallow Screener		
	⊿ Additional Tools		
	Alcohol Withdrawal Scale	iView - Adult Observations Wound Care	
	Comprehensive Care Plan	Height & Weight Form	
	Patient Belongings & Valuables Checklist	Transfer of Care Checklist	

There are a number of ways to access the 4AT on Powerchart

One is to simply go to Assessments which again is located on the Patient summary page, as shown here on this slide.



Alternatively it can be accessed via the ADHOC folder under Assessments and Nursing assessments as shown here.

		,	Tho	4 A T	Assess	mon	•	
			ine 4		ASSes	smen	ι.	
	- 4	AT Rapid Ass	essment Te	st for Deliri	um			
Test, 4at 22 Turing Street S ABORIGINALITY		MRN: 274-47-32 SEX: M	DOB: 01/09/1990 LOC: 8W-1; 1; 17 si	AGE: 32 Years ingle	MC: 9999 99999 9 9			
For guidance on	completing this tool pla	ease refer to the "Facilitation	on Guide" by right clicking	g in the field to the rig	ht and selecting 'Reference text'	i		Alertness
1. ALERTNES	ss							Alerthess
obviously sleepy	y during assessment)	arkedly drowsy (e.g. difficult) or agitated / hyperactive. () or gentle touch on shoulde	Observe the patient.	O Normal O Mild sleepiness fo O Clearly abnormal	x <10 seconds after waking, then normal			
state their name	and address to assis		n ron one persona					
2. AMT4								
Ask the patient	Age Date of birth Place (name of the h Current year	nospital or building)		O No mistakes O 1 mistake O 2+ mistakes	⊃ Urzestable		•	AMT4
3. ATTENTIO	N							
	starting at Decembe understanding one pro	nonths of the year in backw ar.' ompt of: "What is the month		Months of the yea C Achieves 7+ mon C Starts but scores C Refuses to start C Untestable			•	Attention
4. ACUTE CH	IANGE OR FLUCTU	JATING COURSE						
Evidence of sign	nificant change or fluct	tuation in: alertness, cogniti arising over the last 2 week	on, other mental <s and="" evident<="" still="" td=""><td>C Yes C No</td><td></td><td></td><td></td><td></td></s>	C Yes C No				
SCORING							•	Aquita
		n but is not diagnostic: more required to reach a diagnos		Total Score:			•	Acute
A score of 1-3 suggests cognitive impairment and more detailed cognitive testing and informant history-taking are required. A score of 0 does not definitively exclude definium or cognitive impairment more detailed testing may be required depending on the clinical context.			Possible delinum +/- cognitive impairment (Score => 4) Possible cognitive impairment (Score 1-3) Delinum or severe cognitive impairment unlikely (Score 0)				Changes	
	н	delirium is present, ple	ase contact medical	team for prompt re	view			
								a lth Ith Western Sydney Ital Health District

- The 4AT rapid screening tool for delirium looks at Alertness (whether your patient is alert, drowsy or clearly abnormal upon review); Orientation (if they can tell you their age, date of birth, place where they are, current year) this may not be possible for patients with a known cognitive impairment which may be normal for them or if they are unable to communicate, in this case, you can mark the patient as 'untestable'; Attention (ask the patient to tell you the months backwards from December) this may not be possible for patients with a known cognitive impairment which may be normal for them or if they are unable to communicate, in this case, you can mark the patient as 'untestable'; Attention (ask the patients with a known cognitive impairment which may be normal for them or if they are unable to communicate, in this case, you can mark the patient as 'untestable'; Acute Changes (are there changes in the patient's alertness, mentality over the last 2 weeks that are present in the last 24 hrs?) answer yes or no.
- A score of >4 is suggestive of a positive delirium score -> a medical review is required ASAP.

□Item 1 – Checking for Alertness

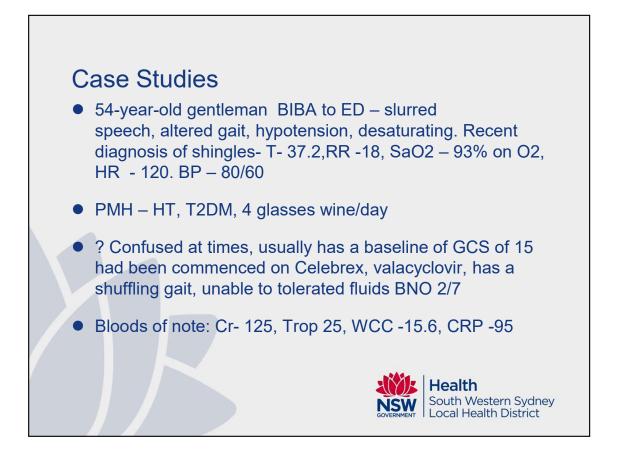
O- Look for an altered level of alertness: sleepiness/unresponsiveness, or agitation.

Items 2 & 3 – Checking Orientation & Attention

Ask your patient to name the months of the year backwards. If your patient's alertness is preventing them from doing this, score as 'untestable'.

Item 4 – Assessing for Acute or Fluctuating changes

Delirium.



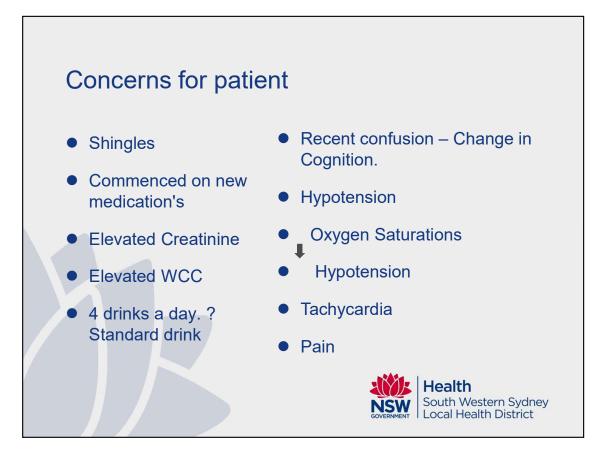
The next few slides will include two case studies.

The first is a 54 year old gentleman who presented to the ED with slurred speech, altered gait Hypotenson and was desaturating

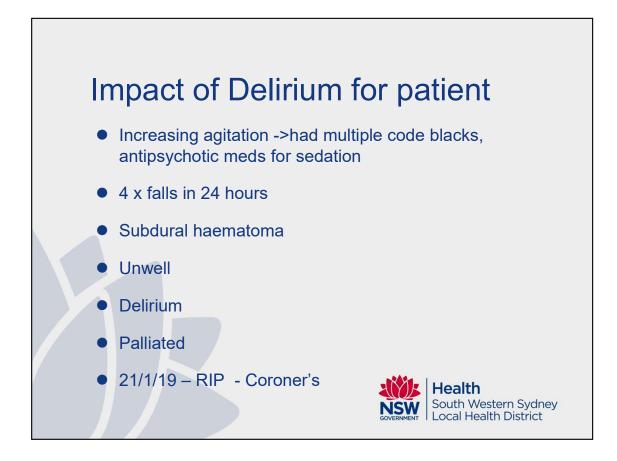
He was recently diagnosed with shingles and commenced on acylcovir and celebrex

He was confused with a GCS of 14,

Of note his Cr was 125, WCC 15.6 and CRP 95



What are our concerns for this gentleman: Pain associated with shingles He has slurred speech and recent confusion He is desaturating, hypotensive, tachycardic His infective markers are elevated The commenced of new medication And he drinks approximatley 40grams or alcohol daily therefore potential for etoh withdrawal

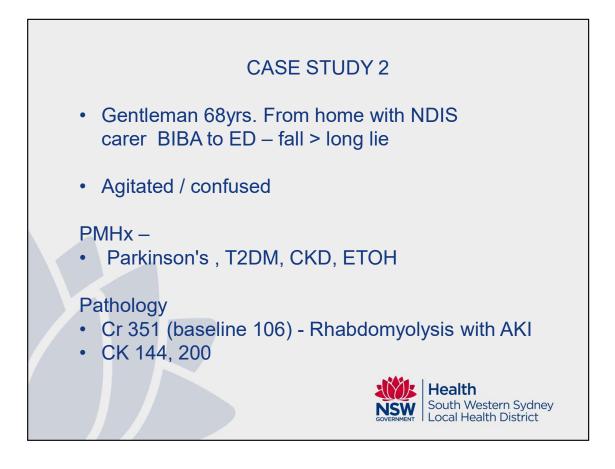


This gentleman was admitted with sespis and diagnosed with hyperactive delirium

He had increasing aggression and agitation with multiple Code Blacks requiring antipsychotics medication

Unfortunately he had 4 falls within a 24 hour period sustaining a subdural hematoma He subsequently passed away and was referred to the coroner.

- · Compliance with correct handover procedure discussion of strategies / management
- Harm to patient
- Grief and Loss to family
- Reputation to organisation
- Potential Litigation
- · Financial burden- altered/no funding
- · employee implications e.g. stress potential PTSD



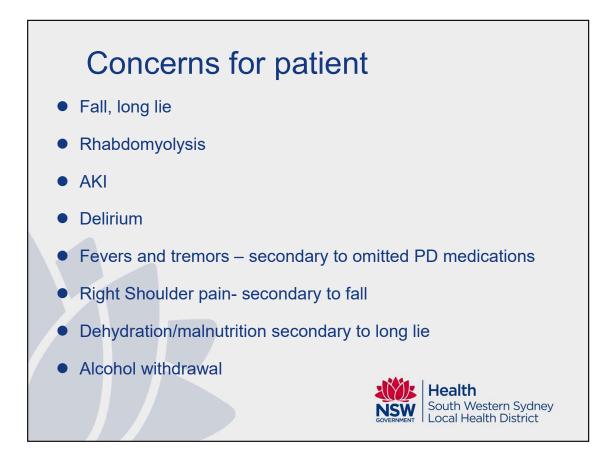
The second case study was a 68 year old gentleman

Fall with long lie from home

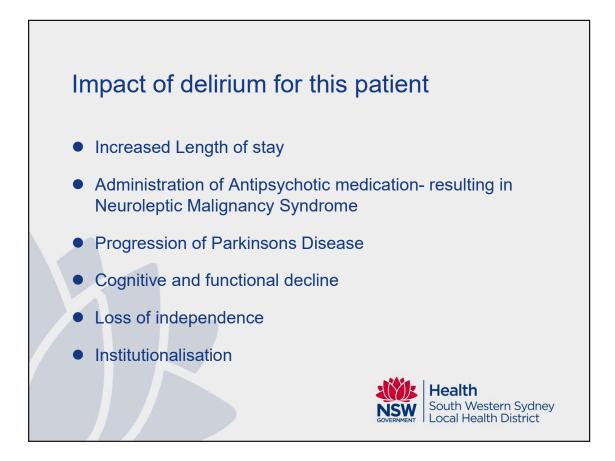
He presented with agitation, confusion on a background of Parkinsons, Type 2 diabetes, chronic kidney disease and long term alcohol use

His Creatinine was 351, baseline 120 and his Cks were 144,200

He was diagnosed with Rhabdomyolysis and right shoulder injury secondary to the fall.



So as you can see their were multiple triggers for delirium Fall with a long lie, Rhabdomyolysis Electrolyte imbalance Pain Dehydration and malnutrition Alcohol withdrawal



During his stay he had ongoing delirium resulting in multiple clinical reviews

He was unfortunatley given antipscychotic medication to treat his agitation and hallucinations and subsequently developed neuropletic maligant syndrome

Because of the complications associated with his presentation this gentleman had an extensive length of stay with a significant functional and cognitive decline. He was discharged and placed into a Residential Aged Care facility.



So from these two case studies we can see how delirium can have a negative impact on patients outcomes, highlighting the importance of delirium screening using the DRAT and 4AT to implement either prevention or management care strategies and consequently minimizing harm to the patient.

