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Online Forms	
National Ethics Application Fo	rm

	to the present of the second o
Within	which Jurisdictions will your research application be submitted to: (tick all that apply)
*	New South Wales
	Queensland
~	South Australia
	Victoria

HREC Application Reference Number:

1. TITLE AND SUMMARY OF PROJECT

1. Title

What is the formal title of this research proposal?

Randomised double-blind placebo-controlled phase III trial of oral melatonin for the prevention of delirium in hospital in people with advanced cancer

What is the short title / acronym of this research proposal (if applicable)?

Phase III RCT of melatonin for prevention of delirium in cancer

2. Description of the project in plain language

Give a concise and simple description (not more than 400 words), in plain language, of the aims of this project, the proposal research design and the methods to be used to achieve those aims.

This application is for a phase III randomised controlled trial that will evaluate the efficacy of daily prolonged release melatonin 2mg in preventing delirium in inpatients with advanced cancer.

The aim of the investigator-initiated, cooperative group trial is to determine the effectiveness of melatonin in preventing delirium (number of delirium-free days during a hospital admission achieved by reducing overall delirium occurrence, or reducing duration and severity of delirium if it occurs).

All inpatients with advanced cancer in participating palliative care and oncology units will be eligible to participate, unless they meet the specific exclusion criteria for the study (current delirium, contraindications to study intervention, short prognosis). Patients who consent will be randomised to receive either 2mg prolonged release melatonin or placebo daily at night for the duration of their inpatient admission or until delirium occurrence. The primary aim is to determine the effectiveness of melatonin in preventing delirium; by increasing the number of delirium-free days during a hospital admission (achieved by reducing overall delirium occurrence, or reducing duration and severity of delirium if it occurs). The secondary aims are to better understand what constitutes delirium risk and precipitants for people with advanced cancer, the toxicities associated with melatonin, and to explore the collateral benefits in sleep quality. The severity and duration of delirium, and its impacts will be evaluated if it occurs. Days in coma will also be measured as this may occur in severe irreversible delirium prior to death.

2. RESEARCHERS / INVESTIGATORS

1. Chief researcher(s)/investigator(s)

This question only applies to multi-centre research. If your research is not multi-centre, please leave this question blank. See Guidance Text (G) for the definition of a Chief Researcher

Chief researcher

Title: Forename/Initials: Surname: Professor Meera Agar

Mailing Address: University of Technology Sydney

22:11:45

Level 3, 235 Jones Street

Suburb/Town: Ultimo
State: NSW
Postcode: 2007
Country: Australia

Organisation: Faculty of Health, SWSLHD Palliative Care Department

Department*: Centre for Cardiovascular and Chronic Care, Clinical Trials, Palliative Care,

Position: Professor of Palliative Medicine, Clinical Trial Director, Staff Specialist in Palliative Medicine

E-mail: meera.agar@sswahs.nsw.gov.au

Phone (BH): 02 9514 4243 Phone (AH)*: 0430 212 912 Mobile*: 0430 212 912

Pager*: Fax:

Is this person the contact person for this application?

Yes No

Summary of qualifications and relevant expertise.

Qualifications: MBBS, Master of Palliative Care, FRACP, FAChPM, PhD.

Expertise: Dr Agar's areas of expertise include palliative care symptom management, palliative care research, study methodology, dissemination and translation of research findings into practice. She completed her Doctoral thesis on Delirium in advanced cancer. She was the chief investigator for the largest delirium treatment randomised controlled trial which recruited over 200 participants. She has been the site investigator for over 20 investigator led clinical trials in SWSLHD.

Please declare any general competing interests.

None

Name the site(s) for which this chief researcher / investigator is responsible.

Liverpool Hospital

Describe the role of the chief researcher / investigator in this project.

Dr Agar will be leading the conception, design, execution, analysis and preparation of manuscripts for publication of this project, and will provide leadership to the collaborative team. She will be involved in ensuring data quality. Dr Agar will also lead the dissemination plan for this work, which will include translation of the findings into policy development, clinical guidelines and new program work

Is the chief researcher / investigator a student?

Yes

No

2. Principal researcher(s) / investigator(s)

Principal researcher / investigator 1

Title: Forename/Initials: Surname: A/Prof Gideon Caplan

Mailing Address: Barker Street

Suburb/Town: Randwick
State: NSW
Postcode: 2031
Country: Australia

Organisation: Post-acute Services, Prince of Wales Hospital

Department*: Geriatric medicine

Position: Director

E-mail: g.caplan@unsw.edu.au

Phone (BH): 02 9382 2470

Submission Code Da 22:11:45	ate: 21/06/2016 F	Reference:		Online Form
Phone (AH)*:				
Mobile*:				
Pager*:				
Fax:				
Is this person the	e contact person for this	application?		
Summary of qua Qualifications - N	ifications and relevant e IBBS, FRACP	expertise		
where important in older adults. F improve delirium	outcomes. He also has e is the President of the	undertaken research to under e Australasian Delirium Associ	erventions, where delirium impacts rstand the pathophysiology of deliriun iation, which is the group aiming to or on the recently completed RCT of	m
Please declare a	ny general competing ir	nterests		
Name the site(s) not responsible		researcher / investigator is res	sponsible.	
		ther / investigator in this project and knowledge of delirium fror	ct. m a Geriatric Medicine perspective.	
Is the principal re	esearcher a student?			
Principal researc	her / investigator 2 Title: Forename/Inition	ials: Surname: Lawlor		
Mailing Address:	43 Bruyère Street			
Suburb/Town:	Ottawa			
State:		Ontario		
Postcode:	KIN 5C8			
Country:	Canada			
Organisation:	University of Ottawa, 0	Canada		
Department*:	Division of Palliative ca	are, Dept of Medicine, Bruyère	e Continuing Care	
Position:	Medical Director			
E-mail:	plawlor@bruyere.org			
Phone (BH):	613-562-6262,Ext:142	23		
Phone (AH)*:				
Mobile*:				
Pager*:				
Fax:	6135626371			
Is this person the	contact person for this	application?		
	ifications and relevant e B B Ch BAO. MMed Sc (p	•		
Expertise: A/Pro		le expertise in delirium researd	ch in palliative care settings both as	a
Please declare a	ny general competing ir	nterests		
Name the site(s) not responsible		researcher / investigator is res	sponsible.	
Describe the role	of the principal research	cher / investigator in this projec	et.	

Submission Code Date: 21/06/2016 Online Form Reference:

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CI Lawlor will contribute expertise and experience in delirium prevention and treatment specifically in cancer, including leadership of a current phase II trial of melatonin for delirium prevention in Canada. CI Lawlor has

team meetings via	re data from this trial where instra a teleconference as required. He delirium treatment.			
Is the principal re	searcher a student?		O Yes	No
Principal research	ner / investigator 3			
	Title: Forename/Initials: Surr A/Prof Delwyn Bart			
Mailing Address:	431 Glebe Point Road			
Suburb/Town:	Glebe			
State:	NSW			
Postcode:	2037			
Country:	Australia			
Organisation:	Woolcock institute of Medical R	esearch & The University	of Sydne	ey
Department*:				
Position:	Clinical Associate Professor &	Health Psychologist		
E-mail:	delwyn.bartlett@sydney.edu.au	I		
Phone (BH):	02 9114 4060			
Phone (AH)*:				
Mobile*:				
Pager*:				
Fax:				
Is this person the Yes No	contact person for this applicati	on?		
Delwyn Bartlett is Sydney where sho working in the are	fications and relevant expertise a Clinical Associate Professor a e received her PhD in 2002. She a of sleep health and psycholog , sleep apnea, and parasomnia	e is a registered psycholo ly since 1993. She treats	gist who patients	has been predominantly with sleep disorders
Please declare ar nil	ny general competing interests			
Name the site(s) to not responsible for	for which this principal research or a specific site	er / investigator is respor	nsible.	
	of the principal researcher / invengs experience from sleep disor context		o circadia	n rhythm disorders and

Is the principal researcher a student?

Yes No

Principal researcher / investigator 4

Title: Forename/Initials: Surname: Prof David Currow

216 Daws Road Mailing Address:

Suburb/Town: Daw Park State: SA Postcode: 5041 Country: Australia

Organisation: Flinders University

Department*: Discipline of Palliative and Supportive Services

22:11:45

Position: Professor

E-mail: david.currow@sa.gov.au

Phone (BH): +61 08 72218235

Phone (AH)*: Mobile*: Pager*:

Is this person the contact person for this application?

Yes

Summary of qualifications and relevant expertise

Qualifications: BMed, PhD, MPH, FRACP, FAChPM, FAHMS, GAICD

Please declare any general competing interests

Fax:

Name the site(s) for which this principal researcher / investigator is responsible.

not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

Prof Currow will be involved in the trial conduct, analysis and write up and brings extensive experience in palliative care clinical trials. He was an investigator on the recently completed RCT of antipsychotics for delirium treatment.

Is the principal researcher a student?

Yes No

Principal researcher / investigator 5

Title: Forename/Initials: Surname: Dr Jane **Nikles**

Building 71/918 Mailing Address:

Suburb/Town: **RBWH Herston**

State: QLD Postcode: 4029 Country: Australia

Organisation: University of Queensland

Department*: UQ Centre for Clinical Research

Position: Senior Research Fellow E-mail: uqjnikle@uq.edu.au

Phone (BH): 07 3346 5144

Phone (AH)*: Mobile*: Pager*: Fax:

Is this person the contact person for this application?

Yes No

Summary of qualifications and relevant expertise

Qualifications: MBBS, FRACP, PhD

After graduating from medical training with first class honors and a University Medal in 1983, in 2006 she obtained a PhD on "Using n-of-1 trial methodology as a management tool in clinical practice" in the field of Population Health, which was awarded, as was her MBBS, from The University of Queensland. Dr Nikles is an experienced trial coordinator, at a senior experienced postdoctoral level. She has taken overall responsibility for past grants, including ensuring scientific rigour, meeting timelines, communicating with funding bodies, ensuring ethical conduct of research and completion within budget.

Experience especially relevant to the proposed project includes running RCTs of melatonin in other populations.

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Please declare any general competing interests

Name the site(s) for which this principal researcher / investigator is responsible.

not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

CI Nikles contributes experience as a general practitioner and clinical trials expert and as the only team member with experience of trialling melatonin. She will continue to contribute to the design and methods of the proposed study. She will attend team meetings as required via teleconference from Brisbane and will contribute to interpretation and reporting.

Is the principal researcher a student?

Yes No

Principal researcher / investigator 6

Title: Forename/Initials: Surname: Prof Jane **Phillips**

Mailing Address: Level 3, 235 Jones St

Suburb/Town: Ultimo NSW State: Postcode: 2007 Country: Australia

Organisation: University of Technology

Department*: Centre for Cardiovascular and Chronic Care

Position: Director

E-mail: jane.phillips@uts.edu.au

Phone (BH): 02 9514 4822

Phone (AH)*: Mobile*: Pager*: Fax:

Is this person the contact person for this application?

Yes No

Summary of qualifications and relevant expertise

Professor Phillips RN PhD is a palliative care nurse, and brings extensive experience in research in the palliative care setting, and has undertaken studies exploring delirium care in this context. She is the current chair of the palliative care clinical studies collaborative trials management committee, who will coordinate this study

Please declare any general competing interests

Name the site(s) for which this principal researcher / investigator is responsible.

not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

Prof Phillips has had input into the trial design, and will continue to be involved in its conduct in particular operationalising the non-pharmacological elements of the study

Is the principal researcher a student?

Yes No

Principal researcher / investigator 7

Title: Forename/Initials: Surname: A/Prof Lawrence Lam

Mailing Address: Level 3, 235 Jones St

Ultimo Suburb/Town: NSW State:

22:11:45

Postcode: 2007 Country: Australia

Organisation: University of Technology

Department*: Faculty of Health and Graduate School of Health

Position: Professor of Public Health E-mail: lawrence.lam@uts.edu.au

Phone (BH): Phone (AH)*: Mobile*: Pager*: Fax:

Is this person the contact person for this application?

Yes

No

Summary of qualifications and relevant expertise

Qualifications: BSc (Hons), MAppPsych, MPH, Grad Dip Biostats, PhD

I have received training in many areas including Medical Sciences (Pharmacology), Psychology, Public Health, Epidemiology and Medical Statistics. I have obtained degrees including: B.Sc (Hons), Master in Applied Psychology, MPH, Grad Dip in Biostats, PhD in Epid and Biostats. I am an academic and a practising Epidemiologist, as well as a qualified Medical Statistician and a research Psychologist.

Please declare any general competing interests

Name the site(s) for which this principal researcher / investigator is responsible.

not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

CI Lam is a senior biostatistician who will conduct all statistical analyses in the proposed research and lead reporting of analysis sections in publications. He has contributed to the design and methods of the proposed trial, including power estimate and sample size calculation. He will attend investigator meetings and liaise with the trials coordinator as required.

Is the principal researcher a student?

Yes No

Principal researcher / investigator 8

Title: Forename/Initials: Surname: Nikki McCaffrey

Mailing Address: RoomM 55, A block

Repatriaion General Hospital, Daws Road

Suburb/Town: Daws park

State: SA Postcode: 5041 Australia Country:

Organisation: Flinders University

Department Palliative & Supportive Services Department*:

Position: **Health Economist**

E-mail: nicola.mccaffrey@flinders.edu.au

Phone (BH): 08 8275 2882

Phone (AH)*: Mobile*: Pager*:

08 8275 2854

Is this person the contact person for this application?

Yes

No

Summary of qualifications and relevant expertise

Qualifications: BSc(Hons), MSc, PGDip(HEc), PGDip(ClinPharm)

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Please declare any general competing interests

Name the site(s) for which this principal researcher / investigator is responsible. not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

I bring to the project team the necessary expertise to undertake and complete a cost effectiveness evaluation, including the modeling of costs, risks, harms and benefits of interventions, the choice and valuation of appropriate outcomes in palliative care and the impact of economic evaluation on health care policy. I am an expert health economist and have participated in the design of the study to allow for meaningful economic data analysis. I have contributed to the development of the research protocol and will continue to supervise the conduct of the economic aspect of this research and supervise the economic analyses. I will also participate in the preparation of manuscripts and dissemination of the results at national and international clinical research meetings.

Is the principal researcher a student?

Yes No

Principal researcher / investigator 9

Title: Forename/Initials: Surname: Prof Wes Flv

Mailing Address: Centre for Health Services Research

> 6th Floor, Medical Centre East 6109 Vanderbilt University School of Medicine

Suburb/Town: Nashville

State: Tennessee

Postcode: 37232-8300

Country: USA

Organisation: Vanderbilt University

Department*: Pulmonary and Critical Care Medicine Position: Associate Director of Aging Research

E-mail: wes.ely@vanderbilt.edu

Phone (BH): 615-936-3395

Phone (AH)*:

Mobile*: Pager*:

Fax: 615-936-1269

Is this person the contact person for this application?

Yes

No

Summary of qualifications and relevant expertise

Qualifications - BS, MPH, MD

Expertise - Dr. Ely's research has focused on improving the care and outcomes of critically ill patients with sepsis and respiratory failure, with special emphasis on the problems facing older patients in the ICU (e.g., delirium and cognitive impairment in the ICU, weaning from mechanical ventilation, neuropsychological deficits post ICU care, and quality of death in the ICU).

He was an author of the ACCP/AARC clinical practice guidelines for weaning from the ventilator and for the upcoming revised version of the SCCM guidelines for Pain, Anxiety and Delirium. Dr. Ely was one of the coordinating center physicians for the Phase III PROWESS international trial of rh-Activated Protein C (and subsequent open label investigations) for severe sepsis that eventually led to its becoming the first approved drug for this disease. He is currently the director of the Vanderbilt clinical trials coordinating center for studies related to delirium and sedation.

Please declare any general competing interests

Name the site(s) for which this principal researcher / investigator is responsible. not responsible for a specific site

Describe the role of the principal researcher / investigator in this project.

Prof Ely contributes to this project as a world leader in delirium research in intensive care with particular expertise in clinical trials and measurement. He will attend investigator meetings via teleconference as

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required and contribute to interpretation and reporting of study findings. He will disseminate findings via the Vanderbilt Delirium website which he developed and implemented as a leading resource for both medical and lay readers interested in learning about delirium.

Is the principal researcher a student?

Yes

No

ow many known asso ve contact details for	ciate researchers are there? (You will be asked to 10 these associate researchers / investigators)
o you intend to emplo	y other associate researchers / investigators?
Associate Researche	
	Title: Forename/Initials: Surname: Dr Tim Luckett
Mailing Address:	Faculty of Nursing, Midwifery & Health
	Building 10, Level 7, UTS
	235-253 Jones St
Suburb/Town:	Ultimo
State:	NSW
Postcode:	2007
Country:	Australia
Organisation:	University of Technology
Department*:	Centre for Cardiovascular and Chronic Care
Position:	Senior Research Fellow
E-mail:	tim.luckett@uts.edu.au
Phone (BH):	02 95144861
Phone (AH)*:	
Mobile*:	
Pager*:	
Fax:	
Is this person the co	tact person for this application?
Summary of qualifica Qualifications - BSc	tions and relevant expertise Hons), PhD
=	ckett is an experienced palliative care researcher and also has expertise in patient asurement. He was the trial coordinator for the phase II pilot which was undertaken
Please declare any ç None	eneral competing interests
	e of the associate researcher / investigator in this project. nvolved in the trial design, and will be involved interpretation of results
Name the site at whi nil	th the associate researcher / investigator has responsibility.
Is this associate rese	archer / investigator a student? Yes No
Associate Researche	r / Investigator 2
Ti	le: Forename/Initials: Surname:

omission Code Dat 11:45	te: 21/06/2016 Reference:	Online Form
Suburb/Town: State: Postcode:	NSW	
Country:		
Organisation: Department*:	Improving palliative care through clinical trials - NSW Palliative Care Clinical Trials group	0
Position:	Consumer representative	
E-mail:	bev.noble@bigpond.com	
Phone (BH):		
Phone (AH)*:		
Mobile*:		
Pager*:		
Fax:		
Is this person the Yes No	contact person for this application?	
Ms Noble is a brea background in soc system. She has a Australia. Ms Nob since its inception Group and Cance participates in the	ications and relevant expertise ast cancer survivor, and has also experienced the role of a carer first-hand. With a stall welfare, Ms Noble is highly experienced in understanding and navigating the health an active interest in health policy development and improving the lives of cancer patients in the legislative care clinical trials group in 2009, and is on its management advisory committee. She joined Breast Cancer Actional Voices in 2000, where she holds a position on the executive committee. Ms Noble Partnership Council and the Clinicians Council as a consumer at the Chris O'Brian also a consumer representative for Cancer Voices NSW Executive and Health Consume	n
Please declare an	y general competing interests	
	role of the associate researcher / investigator in this project. /olved in the study pilot, and will be responsible for providing critical consumer input acro rial.	ss
Name the site at v	which the associate researcher / investigator has responsibility.	
Is this associate re	esearcher / investigator a student? Yes No	
Associate Researd	cher / Investigator 3	
	Title: Forename/Initials: Surname: Dr AnnMarie Hosie	
Mailing Address:	level 3, Building 10, 235-253 Jones St	
Suburb/Town:	Ultimo	
State:	NSW	
Postcode:	2007	
Country:	Australia	
Organisation:	University of Technology	
Department*:	Centre for Cardiovascular and Chronic Care	
Position:	Project Coordinator for The Stop Cancer PAIN Trial	
E-mail:	AnnMarie.Hosie@uts.edu.au	
Phone (BH):	02 9514 4858	
Phone (AH)*:		
Mobile*:		
Pager*:		

Fax:

Is this person the contact Yes No	et person for this application?
Summary of qualification	ns and relevant expertise
RN PhD. Dr Hosie unde	rtook her doctoral studies exploring the assessment, and management of delirium e care setting. She is on the committee of the Australasian Delirium Association.
Please declare any geno nil	eral competing interests
Description of the role of Dr Hosie will be involved	the associate researcher / investigator in this project. I in training at the sites, in particular in the non pharmacological prevention
strategies	
Name the site at which t Training at all sites	he associate researcher / investigator has responsibility.
Is this associate researc	her / investigator a student? Yes No
Associate Researcher /	Investigator 4
	Title: Forename/Initials: Surname: A/Prof Brian Le
Mailing Address:	Grattan Street
Suburb/Town:	Parkville, Melbourne
State:	VIC
Postcode:	3050
Country:	Australia
Organisation:	The Royal Melbourne Hospital
Department*:	Palliative Care
Position:	Director
E-mail:	brian.le@mh.org.au
Phone (BH):	+ 61 3 9342 7820
Phone (AH)*:	
Mobile*:	
Pager*:	
Fax:	+61 3 9342 4928
	et person for this application?
	ns and relevant expertise senior palliative care clinician and has extensive experience in palliative care clinical
Please declare any general	eral competing interests
Description of the role of	the associate researcher / investigator in this project. In in study design, conduct, analysis and write up.
Name the site at which t	he associate researcher / investigator has responsibility. al/Peter MacCallum Cancer Centre
	her / investigator a student? Yes No
Annualist Division 1	lance attended in E
Associate Researcher /	-
	Title: Forename/Initials: Surname: A/Prof Jennifer Philip
Mailing Address:	41 Victoria St
Suburb/Town:	Fitzrov

1:45		
State:	VIC	
Postcode:	3065	
Country:	Australia	
Organisation:	St Vincents Hospital	
Department*:	Palliative Medicine & Centre For Palliative Care	
Position:	Associate Professor, Deputy Director	
E-mail:	jennifer.philip@svha.org.au	
Phone (BH):	61 3 9416 0000	
Phone (AH)*:		
Mobile*:		
Pager*:		
Fax:	61 3 9416 3919	
Is this person the c	ontact person for this application?	
Summary of qualifice FAChPM, PhD	cations and relevant expertise	
Please declare any None	general competing interests	
•	ole of the associate researcher / investigator in this project. involved in study design, conduct, analysis and write up.	
Name the site at wl None.	nich the associate researcher / investigator has responsibility.	
	searcher / investigator a student? Yes No	

Title: Forename/Initials: Surname:

Ms Meg Brassil

Mailing Address:

Suburb/Town:

State: QLD

Postcode:

Country:

Organisation: Palliative Care Clinical Studies Collaborative

Department*: Management Advisory Board
Position: Consumer Representative
E-mail: meg.brassil@bigpond.com

Phone (BH):
Phone (AH)*:
Mobile*:
Pager*:
Fax:

Is this person the contact person for this application?

Summary of qualifications and relevant expertise

Ms Brassil brings personal experience of home and hospice based palliative care, and believes in the importance of evidence based clinical practice for people with advanced illness. Ms Brassil is a member of Health Consumers Association, consumer representative on State Palliative Care Clinical Network Steering Committee since 2010

and community representative on interview panels for the Graduate Entry Medical Program at Flinders University. Al Brassil has a Masters in Social Work and Diploma of Financial Planning. Ms Brassil is the PaCCSC consumer representative and has been in that role for over 6 years.

22:11:45

Please declare any general competing interests

Description of the role of the associate researcher / investigator in this project.

Meg will be responsible for providing critical consumer input across all aspects of the trial.

Name the site at which the associate researcher / investigator has responsibility.

None

Is this associate researcher / investigator a student?

Yes No

Associate Researcher / Investigator 7

Title: Forename/Initials: Surname:

A/Prof Peter Martin

Mailing Address: PO Box 281

Suburb/Town: Geelong State: VIC Postcode: 3220 Country: Australia

Organisation: Barwon Health Department*: Palliative Care Position: Regional Director

E-mail: petermar@barwonhealth.org.au

Phone (BH): (03)4215 5565

Phone (AH)*: Mobile*:

Pager*:

(03) 4215 6390 Fax:

Is this person the contact person for this application?

No

Summary of qualifications and relevant expertise MB BCh BAO, PGDipPM, MMed, FAChPM

Please declare any general competing interests

nil

Description of the role of the associate researcher / investigator in this project. A/Prof Martin will be involved in study design, conduct, analysis and write up.

Name the site at which the associate researcher / investigator has responsibility.

Is this associate researcher / investigator a student?

Yes

No

Associate Researcher / Investigator 8

Title: Forename/Initials: Surname: Prof Richard Chye

170 Darlinghurst Rd Mailing Address:

Suburb/Town: Darlinghurst

State: NSW Postcode: 2010 Country: Australia

Organisation: St Vincents Hospital, Sydney Department*: Sacred Heart Health Service

Position: Director, Sacred Heart Supportive & Palliative Care

bmission Code Date: 21 11:45	1/06/2016 Reference	: :			Online Form
E-mail: Phone (BH): Phone (AH)*: Mobile*: Pager*: Fax:	richard.chye@svha.org.a 02 83829570	au			
Is this person the conta	act person for this applicatio	n?			
	ons and relevant expertise AChPM AdDipBusMgt GrdCe	ertMgt			
Please declare any ger nil	neral competing interests				
	of the associate researcher and the investigator for Sacred Hesis and write up.				
Name the site at which Sacred Heart Health Se	the associate researcher / i	investigator has	s respons	sibility.	
Is this associate resear	cher / investigator a studen	t? (Yes	No	
Associate Researcher	_				
Mailing Address:	Title: Forename/Initials A/Prof Shirley 43 Bruyère Street Rm 282J	s: Surname: Bush			
Suburb/Town:	Ottawa				
State:		Ontario			
Postcode:	K1N 5C8				
Country:	Canada				
Organisation:	University of Ottawa				
Department*:	Division of Palliative Car	e, Department	of Medic	ine	
Position:	Assistant Professor				
E-mail:	sbush@bruyere.org				
Phone (BH): Phone (AH)*:	613-562-6262 x1060				
Mobile*:					
Pager*:					
Fax: Is this person the conta Yes No	act person for this applicatio	n?			
Summary of qualification MBBS, MRCGP, FAChP	ons and relevant expertise				
	neral competing interests				
	of the associate researcher and in study design, conduct, a			ect.	
	the associate researcher / i	-	-	sibility.	
Is this associate resear	cher / investigator a studen	t? (Yes	No No No	
Associate Researcher	Investigator 10				
Title	: Forename/Initials: Surnar	me:			

Mailing Address:	Dr	Andrew	Teodorczuk				
Suburb/Town:	New	/castle					
State:							
Postcode:							
Country:	UK						
Organisation:	New	castle Univers	sity				
Department*:		npus for Ageing lical Education	g and Vitality, Northu	mberla	nd Tyne a	and Wear NHS	S Trust & School for
Position:	Con	sultant Old Ag	e Psychiatrist and Se	enior Le	ecturer		
E-mail:	andı	rew.teodorczul	k@newcastle.ac.uk				
Phone (BH):							
Phone (AH)*:							
Mobile*:							
Pager*:							
Fax:							
Is this person the		act person for	this application?				
Summary of qual	lificatio	ons and releva	nt expertise				
MRCPsych MBChB							
			in delirium education (Griffith University)	n and ti	raining. H	e is in process	s of relocating to a
Please declare a	ıny gei	neral competir	ng interests				
Dr Teodorczuk w	ill be i	nvolved in stud	e researcher / invest dy design, conduct, a al elements of the stu	nalysis	and write		llso assist in training
	-	_	researcher / investig	-		sibility.	
Is this associate	resear	rcher / investig	ator a student?		O Yes	No	
Associate Resea	rcher	/ Investigator	11				
		Title: Fore Dr Pete	name/Initials: Surna r Allcrof				
Mailing Address:			on General Hospital				
Walling / taur 000.		Daws Roa					
Suburb/Town:		Daw Park					
State:		SA					
Postcode:		5041					
Country:		Australia					
Organisation:		Repatriation	on General Hospital				
Department*:		Southern A	Adelaide Palliative Se	rvices			

Senior Medical Consultant

allc@adam.com.au

08 8275 1732

Position:

Phone (BH):

Phone (AH)*: Mobile*:

E-mail:

	omission Code Date: 21/06/2016 11:45	Reference:		Online Form
	Pager*:			
	Fax:			
	Is this person the contact person for Yes No	this application?		
	Summary of qualifications and releva BM BS, FRACP. Senior consultant in investigator for recently completed cl	palliative care and re	· · · · · · · · · · · · · · · · · · ·	the site
	Please declare any general competinone	ng interests		
	Description of the role of the associa Dr Allcroft will act as site investigator Medical Centre in SA. He will have re to the study. He will contribute to the will contribute to the protocol develop review of the key performance indica	for this project at the esponsibility for the d ongoing oversight of oment, oversight of the	e Repatriation General Hospital and evelopment, review and oversight of the study implementation. As chief if e study implementation,	f issues specific
	Name the site at which the associate Southern Adelaide Palliative Service Centre			ders Medical
	Is this associate researcher / investi	gator a student?		
				_
	Other personnel relevant to the research		in the conduct of this research pro	oject?
6	;			
5b	Describe the role, and expertise who	ere relevant (e.g. co	unsellor), of these other personne	
i i	wo research nurses at each site will a lave experience in the care of people was dequately capture the clinical informanitiate recruitment processes, screen the study database, liaise with clinical	assist with recruitmen with life-limiting illnes tion required in the ca referred patients, obta	at and data collection to the study. Sees and have demonstrated skills asse report forms. The role of the studion informed consent, collect study of	tudy nurses must and ability to dy nurses will be to;
	Is it intended that other people, not		• •	nis research project?
	Yes ○ No			
6.	Certification of researchers / investig	gators		
	Are there any relevant certification, search?	accreditation or cre	dentialing requirements relevant to	the conduct of this
	O Yes O No			
7.	Fraining of researchers			
	Do the researchers / investigators o		any aspect of this research projec	t require any additional
	Yes ○ No			
	What is this training?			
		Page 16		

All researchers, investigators and study staff will be provided with training in ICH Good Clinical Practice as well as the standard operating procedures that have been developed for the collaborative. A 1 day training workshop will be held prior to initiation of study recruitment to ensure all study staff are familiar with the study protocol, consent procedures and data collection requirements

How and by whom will the training be provided?

Training will be conducted by the PaCCSC National Manager and Project Officer, and the chief investigator (Dr Agar) all of whom have completed formal GCP training. Training will be conducted at a face-to-face workshop and then individually with site staff at each of the study sites. Training will be supplemented by manuals and standard operating procedures.

At the site initiation visit the pharmacy will be visited by the coordinating site project officer. At this time the pharmacy procedures will be clarified, the protocol reviewed in detail and a pharmacy manual provided. The manual has been

prepared with the input and advise of experienced trial pharmacists during the protocol development, and reviewed by 2 other pharmacists prior to finalisation.

How will the outcome of the training be evaluated?

Training will be evaluated by ongoing monitoring by the PaCCSC Project Officer, this will be via:

- 1. Compliance with Key Performance Indicators,
- 2. Site monitoring visits
- 3. Data management reporting of errors and query resolution rates
- 4. Adverse event reporting

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Pi	Project Funding / Support				
1.	Indicate how the project will be fund	ed?			
	Type of funding.				
	[Please note that all fields in any selection completed.]	cted funding detail column (with the exception o	f the code) will need to be		
	Funding	Confirmed or Sou	ght?		
	External Competitive Grant	Confirmed Sought Not Sought	Amount of funding 821,661		
	Internal Competitive Grant	○ Confirmed ○ Sought ○ Not Sought			
	Sponsor	○ Confirmed ○ Sought ○ Not Sought			
	By Researchers Department or Organisation		Amount of funding 30,000		

	NUIMPO/Caracar Avertralia/Caracar Coversil NOW
Name of Grant / Sponsor	NHMRC/Cancer Australia/Cancer Council NSW
	National Breast Cancer Foundation
Code (optional)	
Detail in kind support	
Indicate the extent to which the scope of the grant and the scope of this HREC application are aligned:	if this grant was successful the trial could be opened at a further 9 sites across Australia.

1d. By Researchers Department or Organisation

1a. External Competitive Grant

Submission Code Date: 22:11:45	21/06/2016	Reference:		Online Form
Name of Grant / Sponsor	University of Tecl	hnology Sydney		
Code (optional)				
Detail in kind support	time to suppleme assistant (0.6 FT also provide sup will cover study in sites also will be institute clinical to	ent recruitment to the E) working at UTS port in the coordina ntervention, databa eligible for funding	inical trials nurses, and will provide clinical trial is study. A post-doctoral fellow (1.0 FTE) and Funder supervision of the chief investigator Profition of the trial. \$30000 discretionary research se set up, pharmacy costs at the proposed site per participant recruited as part of the CINSW r discretionary funding is available for future year participating sites	Research Agar will funding ss. The cancer
Indicate the extent to which the scope of the grant and the scope of this HREC application are aligned:	100%			
2. How will you manage	a funding shortfa	ll (if any)?		
The trial will only open funding for the propose		ited sites, until furth	ner funding is obtained. There will be no shortfa	all of
3. Will the project be sup	oported in other v	vays eg. in-kind su	pport/equipment by an external party eg. spo	nsor?
		, ,		
recruitment to this stud	oject linked clinica ly. The palliative c	I trials nurses, and are clinical studies	will provide clinical trials nurse time to supplen collaborative will provide infrastructure support ems and standard operating procedures.	
4. Is this a study where clinicians or researcher			e, and will participants be made aware of thes	se payments to
No capitation payment	s will be made.			
Duality of Interest				
5. Describe any commer	rcialisation or inte	ellectual property i	mplications of the funding/support arrangeme	ent.
None				
6. Does the funding/sup	port provider(s) h	nave a financial into	erest in the outcome of the research?	
◯ Yes ⊚ No				
7. Does any member of interest in the outcome		n have any affiliatio	on with the provider(s) of funding/support, or	a financial
8. Does any other individ	dual or organisati	ion have an interes	t in the outcome of this research?	
	-			
1				

Indicate the interested party and describe the interest:

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The manufacturers and distributors of the study drug, Circadin, have a potential financial interest if a new indication is supported by the study. The investigators will purchase the study drug from the manufacturers, with the company having no input into study design, no access to study data or restrictions to study results publication. The placebo will be manufactured by pharmaceutical packaging professionals.

	3. Are there any	y restrictions on	the	publication	of results	from t	this research?
--	------------------	-------------------	-----	-------------	------------	--------	----------------

Yes

No

4. PRIOR REVIEWS

Ethical Review

Some HRECs may require researchers to provide information additional to that contained in a NEAF proposal. For this reason, it is prudent to check whether the HRECs to whom you propose to submit this proposal require additional information.

Duration and location

1. In how many Australian sites, or site types, will the research be conducted?

4

2. In how many overseas sites, or site types, will the research be conducted?

0

3. Provide the following information for each site or site type (Australian and overseas, if applicable) at which the research is to be conducted

1

Site / Site Type Name: Liverpool Hospital

Site / Site Type Location: Cnr Goulburn and Elizabeth Street

Liverpool NSW 2170, NSW

2

Site / Site Type Name: Southern Adelaide Palliative Care Services

Site / Site Type Location: Repatriation General Hospital, Daws Road, Daw Park 5041, Adelaide, SA

3

Site / Site Type Name: Sacred Heart Health Service

Site / Site Type Location:

Darlinghurst Road

Darlinghurst, NSW 2010

4

Site / Site Type Name: Flinders Medical Centre

Site / Site Type Location: Flinders Dr, Bedford Park 5042, Adelaide, South Australia

4. Provide the start and finish dates for the whole of the study including data analysis

Anticipated start date: 01/09/2016 (dd/mm/yyyy)
Anticipated finish date: 01/12/2020 (dd/mm/yyyy)

5. Are there any time-critical aspects of the research project of which an HREC should be aware?

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6. To how many Australian HRECs (representing site organisations or the researcher's / investigator's organisation) is it intended that this research proposal be submitted?

1

A list of NHMRC registered Human Research Ethics Committees (HRECs), along with their institutional affiliations and contact details is available on the NHMRC website at the following web address: http://www.nhmrc.gov.au/health_ethics/hrecs/overview.htm#d.

7. HRECs

HREC 1

Name of HREC:

South Western Sydney Local Health District (SWSLHD) Human Research Ethics Committee (EC00136)

Provide the start and finish dates for the research for which this HREC is providing ethical review:

Anticipated start date or date range: 01/09/2016 (dd/mm/yyyy)

Anticipated finish date or date range: 31/12/2020 (dd/mm/yyyy)

For how many sites at which the research is to be conducted will this HREC provide ethical review?

Site 1

Name of Site: Liverpool Hospital

Principal Researcher 1

Principal Researcher Name:

Professor Meera Agar

Site 2

Name of Site: Southern Adelaide Palliative Care Services

Principal Researcher 1

Principal Researcher Name:

Prof David Currow

Site 3

Name of Site: Sacred Heart Health Service

Principal Researcher 1

22:	11:45	
	Principal Researcher Name:	
	Prof Richard Chye	
	Site 4	
	Name of Site: Southern Adelaide Palliative Care Services	
	Principal Researcher 1	
	Principal Researcher Name:	
	Dr Peter Allcroft	
	Site 5	
	Name of Site: Flinders Medical Centre	
	Name of Site. Timiders Wedical Serials	
	Principal Researcher 1	
	Principal Researcher Name:	
	Dr Peter Allcroft	
	Have you previously submitted an application, whether in NEAF of otherwise, for ethical review of this research	
pro	oject to any other HRECs?	
	Yes	
9. I	HRECs	
Re	search conducted overseas	
<u> </u>		
Pe	er review	
11.	. Has the research proposal, including design, methodology and evaluation undergone, or will it undergo, a peer	
	view process?	
,	Provide details of the review and the autooms. A serve of the letter / notification where available about the attacked	
	Provide details of the review and the outcome. A copy of the letter / notification, where available, should be attached o this application.	
٦	The protocol was reviewed at the annual research forum of the Palliative Care Clinical Studies Collaborative	
ι	PaCCSC) and accepted as an investigator-led collaborative trial for the collaborative to support. It also has undergone review by the PaCCSC scientific committee. This proposal is also currently under review for funding by	
t	he NHMRC/Cancer Australia.	

Reference:

Online Form

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1. Type of Research
Tick as many of the following 'types of research' as apply to this project. Your answers will assist HRECs in considering your proposal. A tick in some of these boxes will generate additional questions relevant to your proposal (mainly because the National Statement requires additional ethical matters to be considered), which will appear in Section 9 of NEAF.
The project involves:
Research using qualitative methods
Research using quantitative methods, population level data or databanks, e.g survey research, epidemiological research
Research involving the collection and / or use of human biospecimens
Genetic testing/research
A cellular therapy
Research on workplace practices or possibly impacting on workplace relationships
Research conducted overseas involving participants
Research involving ionising radiation
Research involving gametes or use or creation of embryos
None of the above
Does the research involve limited disclosure to participants? Yes No
Does the research involve:
Opt out approach
☐ Waiver
None of the above
Research plan

2. Describe the theoretical, empirical and/or conceptual basis, and background evidence, for the research proposal, eg. previous studies, anecdotal evidence, review of literature, prior observation, laboratory or animal studies.

Prevalence and incidence of delirium in advanced cancer:

Delirium is a complex neuropsychiatric syndrome with fluctuating symptoms and multifactorial aetiology, characterized by a disturbance in cognition, arousal and attention which occurs in the presence of an underlying medical condition. Delirium is associated with a spectrum of distressing symptoms (for example disorientation, 22:11:45

sleep wake disturbance, hallucinations, delusions, agitation, paranoia, and worsening physical function). Delirium is prevalent in patients with advanced cancer in both oncology and palliative care settings. Delirium prevalence on admission to hospital in patients with advanced cancer has been shown in several studies to range between 28% - 48%, and up to 90% in the hours to days before death. The incidence of new episodes of delirium during admission has been reported as ranging between 20% and 45%. Taken in combination this means potentially at least two thirds of inpatients with advanced cancer may have delirium at some point during hospitalisation.

Delirium is associated with significant morbidity and mortality

Delirium is associated with increased mortality regardless of underlying illness, a risk that extends to after discharge even if delirium has resolved, with occurrence of delirium in advanced cancer an independent predictor of mortality. Delirium, even if it is detected and treated is associated with significant morbidity and economic cost arising from increased length of hospital stay, postoperative complications, increased risk of functional and cognitive decline which often leads to the need for institutional care. There is also convincing evidence that people with both hypoactive and hyperactive delirium have an awareness of their symptoms and are highly distressed by the recollection of this when the delirium resolves, including two sentinel studies in cancer patients. Witnessing delirium is also highly distressing for caregivers and health professionals. Hence to make the most impact on outcomes delirium prevention is the key.

Current strategies for delirium prevention

Current accepted and evidence based delirium prevention strategies include complex multi-component non-pharmacological interventions; however the inclusion of cognitive and exercise based strategies make adherence unachievable for many advanced cancer patients suffering fatigue and functional decline. A less challenging multicomponent intervention developed for advanced cancer patients failed to demonstrate a difference in the incidence of delirium between two palliative care centres that received the intervention and seven that did not.

Why alternative strategy is needed.

Alternative and/or supplemental strategies for preventing delirium in advanced cancer are therefore needed, with robust evaluation via randomised controlled trials (RCTs). A supplemental pharmacological approach with an acceptable adverse effect profile is an attractive alternative; and melatonin shows particular promise. Clinical and laboratory data identify low melatonin levels and circadian desynchrony in delirium, and 3 RCTs have demonstrated support for melatonin as a safe preventative agent in the hospitalised elderly. The team has completed a phase II RCT (n=30) and established feasibility of trial methods and demonstrated potential for increase in delirium-free days and lower delirium incidence rate in the advanced cancer population.

3. State the aims of the research and the research question and/or hypotheses, where appropriate.

The aim of this investigator-initiated, cooperative group trial is to determine the effectiveness of melatonin in preventing delirium; by increasing the number of delirium-free days during a hospital admission achieved by reducing overall delirium occurrence, or reducing duration and severity of delirium if it occurs.

Primary objective

To determine if oral prolonged release melatonin when compared to placebo can increase the number of delirium-free days during a hospitalisation for advanced cancer patients.

Secondary objectives

to determine if oral prolonged release melatonin can:

- 1. reduce delirium severity and duration for those who develop a delirium episode;
- 2. reduce delirium incidence;
- 3. cause adverse effects, in particular sedation;
- 4. positively influence adverse events associated with delirium episodes, including:
- i. length of hospital stay and inpatient resource utilisation;
- ii. benzodiazepine and antipsychotic use (delirium or non-delirium indication);
- iii. in-hospital complications (pressure areas, falls, thromboembolism, pneumonia, functional decline);
- iv. days spent in coma and survival;
- v. Patient and family distress;

5. provide other symptom benefits in the form of improved sleep quality.	
4. Has this project been undertaken previously?	
Benefits/Risks	
In answering the following questions (Q 5 – 11) please ensure that you address all issues relevant to the ty participants that will be involved in your research project. Refer for guidance to relevant chapters of the Nat Statement.	
5. Does the research involve a practice or intervention which is an alternative to a standard practice or in	tervention?
Explain how the practice or intervention differs from standard practice or intervention: No pharmacological agents are currently used as standard practice to prevent delirium in inpatients with accancer. We propose a new use for a drug (oral prolonged release melatonin 2mg) currently approved in Autreatment of insomnia.	
There is a standardised protocol to provide non-pharmacological elements for delirium prevention adapted individuals ability/clinical condition, based on current best evidence for delirium prevention; and this will be both arms of the study.	
7. What expected benefits (if any) will this research have for the wider community?	
Health services can no longer view delirium as 'inevitable' during hospital stays for people with advanced of but instead a preventable cause of morbidity and mortality, and an important safety concern. Every day with delirium improves the quality of life for someone with advanced cancer. This is the first trial of its kind in car aiming to prevent delirium, or reduce its duration and severity to stall the cascade of functional and cognitive morbidity, mortality and resultant health care costs. Melatonin use could be rapidly translated into practice, formulation already has Therapeutics Goods Administration registration for another indication. The health canalyses will also inform cost effectiveness	out ncer care, e decline, given the
9. What averaged handita (if any) will this research have for neuticinante?	
8. What expected benefits (if any) will this research have for participants? While we hypothesise that melatonin will increase the number of delirium-free days, this has yet to be tested cannot be sure of any benefits to those who participate.	∍d so we
9. Are there any risks to participants as a result of participation in this research project?Yes No	
10. Explain how the likely benefit of the research justifies the risks of harm or discomfort to participants.	
The most important risk is from potential adverse effects of the study drug, melatonin. Previous studies inc phase II RCT by this investigator group suggest these effects to be uncommon or rare. In the phase II study were reported and all were unrelated to the study medication. The specific exclusion criteria ensure those versecific contraindication to melatonin, potential risk to unborn or lactating infant, or where melatonin metals significantly altered or can interact with other medications are not included as participants in this study. The potential benefit of reducing delirium incidence and its significant impact outweighs the potential minimal relatonin adverse events. The participants will be closely monitored for emergent side effects, and potential effects even if they do occur (such as sedation) are usually reversible with cessation of the medication.	of SAEs with a polism is coverall isk of
44 Are those any other right involved in this research 2 or to the research to reach the research to the resea	
11. Are there any other risks involved in this research? eg. to the research team, the organisation, others	i
Yes No Page 24 Australian National Ethics Application Form (c) 2006 Version 2.2 (2014) Commonwealth of Australia	AU/1/3BF6213

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12. Is it anticipated that the research will lead to commercial benefit for the investigator(s) and or the research sponsor (s)?

Yes No

16. Is there a risk that the dissemination of results could cause harm of any kind to individual participants - whether their physical, psychological, spiritual, emotional, social or financial well-being, or to their employability or professional relationships - or to their communities?

Yes

No

Monitoring

17. What mechanisms do the researchers / investigators intend to implement to monitor the conduct and progress of the research project?

Peer review and site visits

Each study site will be visited by the PaCCSC project officer and chief investigator prior to recruitment commencement, when the site coordinator and study nurse will be assessed as appropriate, and trained in the data collection, data entry, and filing and other trial procedures in order to comply with Good Clinical Practice. Peer review will be undertaken via regular study nurse telephone links and ongoing assessment by the study investigator. The assessment will be recorded and a copy sent to the study site.

Monitoring visits

Internal monitoring of the study is described in detail in the PaCCSC Monitoring Standard Operating Procedure. Briefly, each study site will be visited by staff from the co-ordinating site at initiation, mid recruitment and study closure where all study procedures, recording, reporting and maintenance will be checked, including the pharmacy records. This will include data quality, protocol violations, adverse event reporting, participant existence and eligibility, and other aspects to determine Good Clinical Practice compliance.

Independent data and safety monitoring

The study will be monitored by an independent data and safety monitoring committee (IDSMB), as set out within the PaCCSC governance structure, and its standard operating procedures. The membership of the IDSMB is still to be formalised and the membership will be provided to the HREC.

18. Please detail your Data and Safety Monitoring Board (DSMB) and its nominee for this trial.

This study will have an independent Data Safety Monitoring Board, membership will include a palliative care clinician, statistician and clinician with experience in delirium that will be managed by the Palliative Care Clinical Studies Collaborative on a contract basis. Its primary role is to monitor Adverse and Serious Adverse Events, the board will not otherwise be involved in the study. The DSMB terms of reference will determine the frequency of this review. The exact names and qualifications of the IDSMB will be provided to the HREC when formalised.

The Data Safety Monitoring Board (DSMB) will be established to:

- review data from an ethical standpoint, with patient rights, safety and wellbeing being paramount
- report on trial continuation

Specifically, the Board will receive serious adverse events as part of the established reporting mechanism, an adverse event summary report of all adverse events, these will be discussed as a standing agenda item, with these discussions and any actions and outcomes minuted. The Board will also receive an updated literature summary at each meeting, which will outline any new published literature that may have an impact on the study in any way.

6. PARTICIPANTS

1. Research participants

The National Statement identifies the need to pay additional attention to ethical issues associated with research involving certain specific populations.

This question aims to assist you and the HREC to identify and address ethical issues that are likely to arise in your research, if its design will include one or more of these populations. Further, the National Statement recognizes the cultural diversity of Australia's population and the importance of respect for that diversity in the recruitment and involvement of participants. Your answer to this question will guide you to additional questions (if any) relevant to the participants in your study.

Tick as many of the following 'types of research participants' who will be included because of the project design, or their inclusion is possible, given the diversity of Australia's population. If none apply, please indicate this below.

If you select column (a) or (b), column (c) will not apply.

The participants who may be involved in this research are: If you select column (a) or (b), column (c) will not apply	a) Primary intent of research	b) Probable coincidental recruitment	c) Design specifically excludes
apply.			
People whose primary language is other than English (LOTE)		\checkmark	
Women who are pregnant and the human fetus			~
Children and/or young people (ie. <18 years)			~
People in existing dependent or unequal relationships	~		
People highly dependent on medical care	~		
People with a cognitive impairment, an intellectual disability or a mental illness			~
Aboriginal and/or Torres Strait Islander peoples		V	
People who may be involved in illegal activity		~	
None apply			

You have indicated that it is probable that

- People whose primary language is other than English (LOTE)
- Aboriginal and/or Torres Strait Islander peoples
- People who may be involved in illegal activity may be coincidentally recruited into this project. The National Statement identifies specific ethical considerations for these groups(s).

Please explain how you will address these considerations in your proposed research.

All these groups may meet the eligibility criteria. Current services at the study sites for cancer patients are offered to Indigenous patients and it is important that this group is included in the research. Some service consumers may also be involved in illegal activity without our knowledge. While some people whose primary language is other than English will be included, these must have adequate English (or have access to a health care interpreter) to complete assessments. Delirium in people with dementia is a specific clinical scenario where prevention strategies need to be individualised, hence this trial is not designed to evaluate the role of melatonin for this population. The safety of the study intervention is not established in pregnant or breastfeeding women, or children so these are specifically excluded. People who already have delirium are also excluded.

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2. How many participant groups are involved in this research project?

3. What is the expected total number of participants in this project at all sites?

220

4. Groups

Group 1

Group name for participants in this group: Inpatients with advanced cancer

Expected number of participants in this group: 220 Age range: 18+

Other relevant characteristics of this participant group:

- 1 Diagnosis of advanced cancer defined by the intent of treatment being no longer curative;
- 2 Admission to an acute or subacute inpatient palliative care or oncology facility;
- 3 Capacity to give written informed consent

Why are these characteristics relevant to the aims of the project?

Having advanced cancer and being an inpatient render this group at risk of delirium.

Your response to question 1 at Section 6 - "Research Participants" indicates that the following participant groups are excluded from your research. If this is not correct please return to question 1 at Section 6 to amend your answer.

- Women who are pregnant and the human fetus
- Children and/or young people (ie. <18 years)
- People with an intellectual or mental impairment

5. Have any particular potential participants or groups of participants been excluded from this research? In answering this question you need to consider if it would be unjust to exclude these potential participants.

TGA information on melatonin recommends that it not be given to women who are pregnant or breast-feeding.

Services at participating sites are provided only to adult patients.

To establish whether melatonin has potential in increasing delirium-free days, it is important that participants do not have cognitive impairment to begin with. In practical terms, exclusion criteria will include a Short Blessed Test (SBT) score of 10 or more, a Delirium Rating Scale (DRS_R-98) score of ≥17.75 (the score cut off for a diagnosis of delirium), or a clinical assessment that a potential participant is unable to give informed consent.

Participant experience

6. Provide a concise detailed description, in not more than 200 words, in terms which are easily understood by the lay reader of what the participation will involve.

Patient participants will be asked to take one prolonged release tablet at 8pm every night and continued until delirium occurrence, discharge or three weeks if patient remains in hospital (e.g. while awaiting long-term care placement) after any acute medical issues imparting a delirium risk have been resolved. Depending on which group the participant is randomly allocated to, this tablet may be either melatonin or a placebo (dummy pill). Neither the participants nor their medical teams will know whether they have received melatonin or the placebo. Following consent, patients will be asked to give a 15ml blood sample to help understand the mechanism by which melatonin might increase delirium-free days; another sample will be taken if delirium develops. This part of data collection will be optional; patients can choose to participate in the study without giving blood. A nurse will screen once every 8 hour shift for delirium and a more formal assessment will be undertaken every 3 days. We will also measure participants' degree of sedation and sleep quality. Information will be collected from medical records regarding use of drugs and hospital service use. If participants develop delirium, we will monitor the severity and duration of the delirium episode. We will monitor participants closely for any adverse effects, all of which are uncommon/rare.

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Relationship of researchers / investigators to participants

7. Specify the nature of any existing relationship or one likely to rise during the research, between the potential participants and any member of the research team or an organisation involved in the research.

The CI and all PIs are treating physicians at the study sites so may be responsible for the care of patients recruited to the study.

9. Describe what steps, if any, will be taken to ensure that the relationship does not impair participants' free and voluntary consent and participation in the project.

Research staff, medical or nursing, will clearly identify themselves and the purpose of their visit at their contact with the person as being part of the research process.

The investigators and study staff with designated study related duties will work to eliminate any concern of inappropriate influence—the presentation of the study will be as unbiased as possible, the information sheet and consent forms will be clear, and participants will be able to withdraw from the study at any time. All study procedures, including eligibility, baseline assessment and other data collection points, will be performed by a person not involved in the clinical care of the participant.

10. Describe what steps, if any, will be taken to ensure that decisions about participation in the research do not impair any existing or foreseeable future relationship between participants and researcher / investigator or organisations.

Participants will be cared for as individuals with specific needs; the needs of research will come second.

The consent process will clearly state that the participation will not have any effect of the clinical care relationship the may exist.

	research impact upon, or change, an existing relationship between participants and researcher / r or organisations?
O Yes	No No

Recruitment

13. What processes will be used to identify potential participants?

All in-patients will be screened by the study nurse for their suitability to enter the study in consultation with the treating clinician and nursing staff. The study nurse will ask the clinician in charge for permission to approach potentially eligible participants. This referral will be recorded within both the CRF and the clinical file.

14.	ls i	t proposed t	0	'screen'	or assess	h	e suitability	of t	the po	tential	part	icipants	for t	he s	tudy	?
-----	------	--------------	---	----------	-----------	---	---------------	------	--------	---------	------	----------	-------	------	------	---

(0)	Yes	Νo

How will this be done?

Screening will be undertaken through the following process:

- 1. Explain the study and provide the participant information sheet. Give the participant time and privacy to read and consider the information, and discuss with family members if requested.
- 2. Check to confirm the person is interested in participating, and obtain informed consent.

Complete the eligibility screening as per the case report form, some items will be obtained while in discussion with participants, while other items will be obtained by referring to the clinical file.

15. Describe how initial contact will be made with potential participants.

After checking with the clinical team to make sure the person meets the broad criteria for consideration of eligibility, that the person has given explicit permission to be seen by a researcher, and is well enough to be approached, the

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study nui	se will introduce themselves to	the person and explain the study.	
16. Do you	intend to include both males a	nd females in this study?	
Yes	○ No		
		males that will be recruited into this s ue or condition within the general co	
17. Is an ac		etter or telephone call proposed as	s the form of initial contact with potential
O Yes	No		
	ame known that a person was expose the person to any disa		s excluded from the research, would that
○ Yes	No		
Consent pr	ocess		
40 14511		and the constant form all mostings	
19. WIII CO	isent for participation in this re	esearch be sought from all particip	ants?
Yes	○ No		
Will there	be participants who have capa No	city to give consent for themselves?	
decide w	hether or not to participate?	·	ach of these participant's capacity to
understa	nd the information being provide ent (short blessed test and del	in consent procedures to ensure that ed and ask appropriate questions ind irium assessment with DRS-R-98) v	
Are any Yes	of the participants children or yo No	oung people?	
Will there	be participants who do not hav	e capacity to give consent for thems	elves?
consent i describe your prop those fac	may be provided by a person wi any differences in the processe osal, e.g. processes and docum ilities/services. Where your prop	s followed, or the documentation use nentation for users of facilities/service nosal involves participants with an in	swering these questions you need to ed, for different groups of participants in es will differ from those for providers of

questions 15-18 respectively.

Describe the consent process, ie how participants or those deciding for them will be informed about, and choose whether or not to participate in, the project. Obtaining consent for this study will be a process of information exchange between the study staff, the potential participant and any other person the potential participant believes should be included in the discussion. The participant information sheet will be used as a basis for the discussion, which will cover all procedures, benefits, burdens and side effects expected during the study. The participant will be given the opportunity (in time and physical capacity) to consider the study and formulate questions, any questions will be addressed and answered fully. The participant will be given as much time as they need to consider and discuss the study with their family members. Prior to study commencement, during the site initiation visit, the study nurse, site coordinator and the investigator will be trained in consent procedures for this study, with the opportunity

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to role play scenarios and develop a consent script to ensure all information is fully covered.

The consent form is completed by the study nurse in accordance with the requirements of the institutional ethics committee. The form is signed and dated by the participant in front of a witness.

If a participant or person on behalf of a participant chooses not to participate, are there specific consequences of which they should be made aware, prior to making this decision? None

Might individual participants be identifiable by other members of their group, and if so could this identification could expose them to risks? Participants may be identified as participating by other patients because of the study procedures. However, this identification will not expose them to any risk.

If a participant or person on behalf of a participant chooses to withdraw from the research, are there specific consequences of which they should be made aware, prior to giving consent? None.

Specify the nature and value of any proposed incentive/payment (eg. movie tickets, food vouchers) or reimbursement (eg travel expenses) to participants. None. The participants are all inpatients so there will be no travel expenses incurred.

Explain why this offer will not impair the voluntary nature of the consent, whether by participants' or persons deciding for their behalf. NA

Are the participants from which you are recruiting attending for therapeutic care? If yes please provide the details of this care Participants will include inpatients with advanced cancer on palliative care and oncology wards. They may be receiving care for a range of reasons, most commonly symptom control or for an acute medical illness related or unrelated to their cancer.

Do you propose to o	btain consent from	individual participa	ants for your use of	their stored data	a/samples for this
research project?					

Yes ○ No

7. Participants Specific

People in dependent or unequal relationships

You have indicated that the project involves persons in dependent relationships. You may need to reconsider your answers to Section 6 Questions 7-11 to ensure that the information provided is accurate and consistent.

15. Describe the dependent relationship between the participants and the researcher, members of the research team, and/or any person involved in the recruitment/consent process.

Participants may be patients of the study CI and PIs.

16. How will the process of obtaining consent enable persons in dependent relationships to give voluntary consent?

The study CI and PIs will not be the only study staff involved in the consent procedure. Their role however is crucial as delirium is a medical condition, and from experience from other studies in delirium it is important for an explanation about delirium, what it is, and how it relates to the participants individual medical circumstances to be undertaken by a medical practitioner involved in their clinical care. It will be made clear that participation is voluntary and will not effect patient care.

Will there be any specific risks to participal	nts in this research project as	a result of the dependent relationship?

18. If a participant chooses to withdraw from the research, how will the ongoing dependant relationship with the participant be maintained?

Medical care will continue as normal with the exception of administration of melatonin/placebo and the study measures and monitoring.

8. CONFIDENTIALITY/PRIVACY

Answers to the questions in section 8.1 will establish whether an HREC will need to apply guidelines under federal or

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State/territory privacy legislation in reviewing your application. Answers to questions in the remaining parts of section 8 will show how confidentiality of participants is to be protected in your research.

1. Do privacy guidelines need to be applied in the ethical review of this proposal?					
Indicate whether the source of the information about participants which will be used in this research project will involve:					
collection directly from the participant					
collection from another person about the participant					
use or disclosure of information by an agency, authority or organisation other than your organisation					
use of information which you or your organisation collected previously for a purpose other than this research project					
Information which will be collected for this research project directly from the participant					
Describe the information that will be collected directly from participants. Be specific where appropriate. Participants will need to undergo some blood tests to ensure eligibility (Full blood count, electrolytes and liver function, and INR if on warfarin) prior to commencement of the study.					
They will also be asked to rate their sleep quality using the Insomnia Severity Index (ISI) every 5 days during their admission, which has established psychometric properties in cancer.					
Patients will be screened for dementia at the beginning of the study using the 6-item Short Blessed Test (SBT). In addition, observational data will be taken as follows with the participant's knowledge: Participants will be screened for delirium and sedation on a daily basis using the Nursing Delirium Screening Scale (NuDESC) and the Richmond Agitation-Sedation Scale (RASS). They will be assessed more thoroughly every 3 days using the Delirium Rating Scale (DRS-R-98).					
The information collected by the research team about participants will be in the following form(s). Tick more than one box if applicable. individually identifiable					
re-identifiable					
non-identifiable					
Give reasons why it is necessary to collect information in individually identifiable or re-identifiable form Identifiable data is required so that the data obtained can be linked to the trial interventions and will allow unblinded analysis to individual participant data. Henceforth, patients will be allocated an ID number and the data rendered re-identifiable for error checks and to enable data to be removed in the event a participant withdraws and does not want their earlier data to remain in the study.					
Information which will be used for this research project which you or your organisation collected previously for a					
purpose other than this research project					
1b. Indicate from which of the following you will be collecting information for this research project and indicate how many databases from each source.					
Commonwealth State/Territory 4 Private Sector					
Organisations databases					
1					
Name of agency / Southern Adelaide Palliative Care Services					
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	A Commonwealth government department or agency	
Database source:	A state/territory authority	
	A private sector organisation	
Name/description of the database	Patient medical records.	
Describe the information that will be collected. List all data items.	Sociodemographic data, clinical data (cancer type, stage), number baseline, subsequent prescriptions of benzodiazepines, antipsych opioids, identification of hearing impairment, comorbidities, diagn presence of indwelling bladder catheter, blood urea to creatinine rubed changes during the admission, survival, delirium precipitants associated with delirium such as falls, pressure areas, pneumoni utilization (length of stay and in-hospital resource utilisation)	notics, corticosteroids or nosis of depression, ratio, number of room or , medical complications
box if applicable.	by the research team about participants will be in the following for	m(s). Tick more than one
Identified		
Re-identifiable	;	
De-identified		
Identifiable data is re	is necessary to use information in Identified or Potentially identifiable equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for remove.	ons and will allow
Identifiable data is re unblinded analysis to participant withdraw 2 Name of agency /	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for remover	ons and will allow
Identifiable data is re unblinded analysis to participant withdraw	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removes. Liverpool Hospital	ons and will allow
Identifiable data is re unblinded analysis to participant withdraws 2 Name of agency / organisation	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removes. Liverpool Hospital A Commonwealth government department or agency	ons and will allow
Identifiable data is re unblinded analysis to participant withdraw 2 Name of agency /	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removers. Liverpool Hospital A Commonwealth government department or agency A state/territory authority	ons and will allow
Identifiable data is re unblinded analysis to participant withdraws 2 Name of agency / organisation	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removes. Liverpool Hospital A Commonwealth government department or agency	ons and will allow
Identifiable data is re unblinded analysis to participant withdraw. Name of agency / organisation Database source: Name/description of	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for remarks. Liverpool Hospital A Commonwealth government department or agency A state/territory authority A private sector organisation Patient medical records Sociodemographic data, clinical data (cancer type, stage), number baseline, subsequent prescriptions of benzodiazepines, antipsychopioids, identification of bearing impairment, comorbidities, diagnospinids, identification of bearing impairment, comorbidities, diagnospinids, identification of bearing impairment, comorbidities, diagnospinids, identification of bearing impairment, comorbidities, diagnospinical states.	or of medications at notics, corticosteroids or nosis of depression, atio, number of room or , medical complications
Identifiable data is re unblinded analysis to participant withdraws 2 Name of agency / organisation Database source: Name/description of the database Describe the information that will be collected. List all data items.	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for remarks. Liverpool Hospital A Commonwealth government department or agency A state/territory authority A private sector organisation Patient medical records Sociodemographic data, clinical data (cancer type, stage), number baseline, subsequent prescriptions of benzodiazepines, antipsych opioids, identification of hearing impairment, comorbidities, diagn presence of indwelling bladder catheter, blood urea to creatinine rebed changes during the admission, survival, delirium precipitants associated with delirium such as falls, pressure areas, pneumoni	or of medications at notics, corticosteroids or nosis of depression, ratio, number of room or medical complications a, and health services
Identifiable data is re unblinded analysis to participant withdraws 2 Name of agency / organisation Database source: Name/description of the database Describe the information that will be collected. List all data items.	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removes. Liverpool Hospital A Commonwealth government department or agency A state/territory authority A private sector organisation Patient medical records Sociodemographic data, clinical data (cancer type, stage), number baseline, subsequent prescriptions of benzodiazepines, antipsychopioids, identification of hearing impairment, comorbidities, diagning presence of indwelling bladder catheter, blood urea to creatinine rebed changes during the admission, survival, delirium precipitants associated with delirium such as falls, pressure areas, pneumoni utilization (length of stay and in-hospital resource utilisation)	or of medications at notics, corticosteroids or nosis of depression, ratio, number of room or medical complications a, and health services
Identifiable data is re unblinded analysis to participant withdraws 2 Name of agency / organisation Database source: Name/description of the database Describe the information that will be collected. List all data items. The information used b box if applicable.	equired so that the data obtained can be linked to the trial intervention individual participant data. It may also need to be identified for removes. Liverpool Hospital A Commonwealth government department or agency A state/territory authority A private sector organisation Patient medical records Sociodemographic data, clinical data (cancer type, stage), number baseline, subsequent prescriptions of benzodiazepines, antipsychopioids, identification of hearing impairment, comorbidities, diagn presence of indwelling bladder catheter, blood urea to creatinine rebed changes during the admission, survival, delirium precipitants associated with delirium such as falls, pressure areas, pneumoni utilization (length of stay and in-hospital resource utilisation) by the research team about participants will be in the following form	or of medications at notics, corticosteroids or nosis of depression, ratio, number of room or medical complications a, and health services

participant withdraws.

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Name of agency / organisation	Sacred Heart Health Service
	A Commonwealth government department or agency
Database source:	A state/territory authority
	A private sector organisation
Name/description of the database	Patient medical records
Describe the information that will be collected. List all data items.	Sociodemographic data, clinical data (cancer type, stage), number of medications at baseline, subsequent prescriptions of benzodiazepines, antipsychotics, corticosteroids or opioids, identification of hearing impairment, comorbidities, diagnosis of depression, presence of indwelling bladder catheter, blood urea to creatinine ratio, number of room or bed changes during the admission, survival, delirium precipitants, medical complications associated with delirium such as falls, pressure areas, pneumonia, and health services utilization (length of stay and in-hospital resource utilisation)
box if applicable.	y the research team about participants will be in the following form(s). Tick more than one
— De identificable	
De-identified	
Identifiable data is re	is necessary to use information in Identified or Potentially identifiable form quired so that the data obtained can be linked to the trial interventions and will allow individual participant data. It may also need to be identified for removal in the event a s.
4	
Name of agency / organisation	Flinders Medical Centre
	A Commonwealth government department or agency
Database source:	A state/territory authority
	A private sector organisation
Name/description of the database	Patient medical records
Describe the information that will be collected. List all data items.	Sociodemographic data, clinical data (cancer type, stage), number of medications at baseline, subsequent prescriptions of benzodiazepines, antipsychotics, corticosteroids or opioids, identification of hearing impairment, comorbidities, diagnosis of depression, presence of indwelling bladder catheter, blood urea to creatinine ratio, number of room or bed changes during the admission, survival, delirium precipitants,,medical complications associated with delirium such as falls, pressure areas, pneumonia, and health services utilization (length of stay and in-hospital resource utilisation)
box if applicable.	y the research team about participants will be in the following form(s). Tick more than one
Identified	
Re-identifiable De-identified	
De-identified	
Identifiable data is re	is necessary to use information in Identified or Potentially identifiable form quired so that the data obtained can be linked to the trial interventions and will allow individual participant data. It may also need to be identified for removal in the event a s.

Reference:

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1c. Will the	e information to be used in medical research?	
Yes	○ No	
1d. Does th	this application include an attachment relevant to state/territory privac	y legislation?
Yes	⊚ No	
1e. Is the in	information health information?	
Yes	s O No	
Using inforr	rmation from participants	
2. Describe	e how information collected about participants will be used in this pro	ject.
	to collect only enough personal information to give a general demograpl ant. The participant responses collected are limited to those that will addr	
2 Will ony	of the information be used by the research team be in identified or re-	identifiable (ended) form?
Yes	No	-identifiable (coded) form:
	whichever of the following applies to this project: ormation collected for, used in, or generated by, this project will not be use	ed for any other purpose.
	ormation collected for, used in, or generated by, this project will/may be us earcher for which ethical approval will be sought.	sed for another purpose by the
	ormation collected for, used in, or generated by, this project is intended to abase/data collection/register for future use by the researcher for which ϵ	
	ormation collected for, used in, or generated by, this project will/may be mosequent use for which ethical approval will be sought.	ade available to a third party for a
	L research personnel and others who, for the purposes of this research the information and describe the nature of the use or access. Example	
research m	monitors, pharmaceutical company monitors.	
Investigat	ators will have access to data by ID number only for the purposes of data	monitoring and analysis.
The proje for analys	ect officer will have access to all study data for the purposes for data che ysis.	ecking, monitoring and preparation
	rdinators will have access to the local site case report forms and the data lection, data entry and data query resolution.	a contained within for the purpose of
Data safe	fety monitoring board will have access to de-identified data for safety and	l efficacy assessments.
Study aud	uditors will have access to case report forms (by ID number only), and stu	dy files in order to audit the study.
Site resea	earch ethics committees will have access to local data for audit purposes	S.

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5. In what formats will the information be stored during and after the research project? (eg. paper copy, computer file on floppy disk or CD, audio tape, videotape, film)

All data will be collected and stored on paper Case Report Forms and then entered in a onto an secure online password protected research electronic database. The data will be downloaded on a regular basis into a computer

Source data, such as investigations and medical examinations will be kept within the clinical record and will be retained according to hospital requirements.

6. Specify the measures to be taken to ensure the security of information from misuse, loss, or unauthorised access while stored during and after the research project? (eg. will identifiers be removed and at what stage? Will the information be physically stored in a locked cabinet?)

There will be differential access to the database, site staff (study nurses and site coordinators) will have access for data entry only, and will only be able to view the data for that participant at that time. The PaCCSC Project Officer will have access to the reporting, update, data corrections and download functions of the database.

Data entry will be by ID number only.

non-identifiable

file with regular backup to CD for security.

Each site will maintain an electronic file containing the participant information along with the allocated ID number. This will be stored on a password protected, network backup computer. Paper versions will be stored in a locked filing cabinet.

Signed consent forms will be kept in a locked filing cabinet, separate from the file linking the patient with the ID number.

9. The information which will be stored at the completion of this project is of the following type(s). Tick more than one box if applicable.						
individually identifiable						
□ re-identifiable						

Give reasons why it is necessary to store information in individually identifiable or re-identifiable form. Signed consent forms need to be kept for the required retention period consistent with international and national quidelines.

If the data can be re-identified using a code, specify the security arrangements and access for the code. The identified data will be separated from the study data, so that the link between the participant and their data cannot be made by persons without authorised access.

10. For how long will the information be stored after the completion of the project and why has this period been chosen?

Records from our study will be maintained for 15 years after study completion, this meets national requirements for record retention of research materials.

11. What arrangements are in place with regard to the storage of the information collected for, used in, or generated by this project in the event that the principal researcher / investigator ceases to be engaged at the current organisation?

The information generated during this study remain the property of Investigator team and will be stored for the 15 years regardless of changes in the principal researcher work location.

Ownership of the information collected during the research project and resulting from the research project

13. Who is understood to own the information resulting from the research, eg. the final report or published form of the results?

Any Intellectual Property arising from this study shall be jointly owned by Investigators equally.
14. Does the owner of the information or any other party have any right to impose limitations or conditions on the publication of the results of this project?
Disposal of the information
15. Will the information collected for, used in, or generated by this project be disposed of at some stage?
⊚ Yes ○ No
At what stage will the information be disposed? The information will be disposed of after the required retention period has passed and if there are no ongoing or outstanding analysis, questions or publications pending. How will information, in all forms, be disposed? Once the waiting period is complete, the files will be erased from the data base hard drive (the online data entry system), the CDs used for security backup of the data, and shred any paper copies. This includes the master list
linking participant name and treatment number.
Reporting individual results to participants and others
16. Is it intended that results of the research that relate to a specific participant be reported to that participant? Yes No
Explain/justify why results will not be reported to participants: The study's outcomes measures are all transparent to participants removing the need to provide individual feedback. At the completion of the study, a report detailing the study findings will be offered to all participants still alive or their relatives.
17. Is the research likely to produce information of personal significance to individual participants?
18. Will individual participant's results be recorded with their personal records?
19. Is it intended that results that relate to a specific participant be reported to anyone other than that participant? Yes No
20. Is the research likely to reveal a significant risk to the health or well being of persons other than the participant, eg family members, colleagues

Reference:

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21. Is there a risk that the dissemination of results could cause harm of any kind to individual participants - whether their physical, psychological, spiritual, emotional, social or financial well-being, or to their employability or professional

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relationship	s - or to their communities?		
Yes	No No		
22 How is i	t intended to disseminate the	results of the research? eg report, pu	phlication thosis
The Pallia comprehe	tive Care Clinical Studies Colla nsive dissemination strategy to	borative (PaCCSC) which is conducting ensure the findings of this study (either ific dissemination activities that will occ	g this study have developed a er positive or negative) are used to
o Study su o Confere	ion in peer review journals ummary outcomes on CareSea nce presentations ations to clinical meetings at ea		
	ation to key peak bodies. consultation with leaders of cli	inical guidelines for delirium care	
23. Will the	confidentiality of participants	and their data be protected in the dis	semination of research results?
Yes	○ No		
		s and their data will be protected in the iified group data that will not allow the	
9. PROJECT			
will require question s	e additional information which i	Research" and question 6.1 "Research s specific to your research project. The you will need to complete. If this is not	e following table indicates the
• 9.1	. Type of research/trial		
• 9.2	2. Clinical research		
9.1 Type o	of research/trial		
1. The study	involves:		
	administration of a drug / medi use of a medical device	cine (includes a complementary / alter	native medicine)
	administration of human soma	tic cell gene therapy	
The	use of a xenotransplant		
The Othe	use of stem cells (adult or emb	ryonic) as therapy	
2. The proje	ct will be conducted as follow	s:	
Under the	Clinical Trial Notification Sche	me (CTN)	

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3. Provide the following details for the clinical trial protocol:

Protocol name: Randomised double blind placebo controlled phase III trial of oral

melatonin for the prevention of d

Protocol version number: 035/16 v 1.0

Protocol version date: 27/05/2016 (dd/mm/yyyy)

If you intend to/have registered this trial in a publicly accessible register, please provide the details of it hereThe trial will be registered online on the ANZ Clinical Trials Registry.

4. Provide the following details for the investigator's brochure/product information (as relevant):

Title of Investigator's Brochure: Investigator's Brochure Circadin

Investigator's brochure version number: 1i

Investigator's brochure version date: 01/08/2010 (dd/mm/yyyy)

9.2 C	linical research		
1. The	1. The study examines:		
~	The administration of a drug / medicine (includes a complementary / alternative medicine)		
	The use of a medical device		
	Other		

2. Provide the following details for the study protocol:

Protocol title:

Randomised double blind placebo controlled phase III trial of oral

melatonin for the prevention of d

Protocol version number: 035/16 v 1.0

Protocol version date: 27/05/2016 (dd/mm/yyyy)

3. Provide a statement addressing the following as may be applicable to the project.

- a) Method of randomisation
- b) Whether the hypothesis offers a realistic possibility that the intervention is at least as effective as standard treatment
- c) The justification for the use of placebo or non-treatment control group, including alternative effective treatments and any risk of harm in the absence of treatment.
- d) How variations in response will be treated
- e) Endpoints
- f) Details of contingencies and management of these
- g) Explain the arrangements in place to ensure there is adequate compensation for participants.
- a) Randomisation schedules will be developed for each site using random number tables, generated at an independent centre (central registry). Randomisation will be stratified by location of inpatient admission (oncology or palliative care unit) given differing patient populations and service delivery models. Treatment for each patient will be allocated according to a block randomisation (blocks of 6) schedule held by the central registry in a 1:1 ratio. Block randomisation will ensure even allocation to each code in each site. The central registry will supply the schedule tables to each site pharmacy. Treatment allocation will not be disclosed to patient, study staff, treating clinicians or investigators. The study drug and placebo will be manufactured by an external facility and supplied to each site pharmacy in pre-prepared and coded bottles.
- b) There are currently no standard measures taken to prevent delirium in inpatients with advanced cancer. Both arms will receive standardised multi-component non-pharmacological interventions. Components of inpatient care that may influence delirium risk will be standardised for sleep preservation, mobility, orientation and sensory deficit minimisation, individualised to the functional status of the participant. This includes assessment of patients' readiness for and coordination of exercise program, access to hearing aids /glasses, sleep preservation techniques and reorientation. Light exposure will be minimised from 2200 to 0630 hours to standardise light exposure, to help maintain their normal sleep pattern in the hospital environment, and to avoid nocturnal depletion of melatonin.

- c) The aetiology of delirium is complex and poorly understood. While it is unlikely there may be a placebo effect in delirium prevention, the possibility cannot be ruled out. Risk of harm arises from potential side effects of melatonin outlined in detail elsewhere on the NEAF. These are all uncommon or rare and our exclusion criteria and monitoring are designed to avoid serious adverse events.
- d) There may be a variance in delirium episodes (the primary outcome of interest) if the treatment is effective. Delirium episodes will be treated with standard supportive measures and medical treatment of the underlying precipitants individualised by the treating clinicians and in accordance with patients goals of care.
- e) Endpoints will be:

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Primary end point:

1. delirium-free days (before delirium onset for those who develop delirium)

Secondary end points:

- 1. Feasibility end points:
- Percentage of eligible patients screened who progress to randomized.
- 2. Efficacy
- -Incidence of first episodes of delirium as defined by Diagnostic and Statistical Manual of Mental Disorders Version IV Text Revised (DSM-IV-TR) assessment by treating clinician confirmed by a DR-R-98 (total score ≥17.75)
- -Sleep quality measured using Insomnia Severity Index at baseline every 5 days during admission.
- 3. Toxicity
- -Delirium symptom and time profile, subtype and severity (measured by Delirium Rating Scale Revised -98 (DRS-R-98)), time to delirium onset, and duration of delirium (number of days DRS-R-98 score ≥17.75);
- -Sedation will be rated daily by observation using the Richmond Agitation-Sedation Scale Palliative (RASS Pal), developed by Al Bush.
- 4. Benzodiazepine and antipsychotic use
- -Regular use and administration of 'as required' doses of all benzodiazepine and antipsychotics will be recorded daily, including the clinical indication.
- 5. Delirium risk factors
- -Delirium risk factors will be recorded at baseline: age (>65 and >80 years of interest), cognitive impairment defined as SBT score >4, visual impairment, presence of infection, and use of physical restraint.(14) Risk factors which have uncertain/contradictory evidence will also be collected to advance the science for future work: primary or secondary brain malignancy, benzodiazepines (oral diazepam equivalents), corticosteroids (oral dexamethasone equivalents), opioids (oral morphine equivalents), hearing impairment, comorbidities (Charlson Comorbidity Index), diagnosis of depression, use of indwelling bladder catheter, number of room/bed changes during admission, multiple medications (number of medications), and high blood urea/creatinine ratio (>18).
- f)If delirium develops, this will be treated according to standard practice which involves treating the underlying medical precipitant, non pharmacological strategies and the administration of anti-psychotics if required for specific symptoms. This treatment will be determined by the treating clinician. Administration of melatonin/placebo will be stopped but we will continue to monitor the type, severity and duration of the delirium episode.
- g) Participants will not receive any compensation for participating in this study.
- 4. How many drugs will be used in this research project?

1

5. Provide the following information for each drug:

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Drug 1

Approved name: Melatonin Trade name: Circadin

Approved therapeutic indication, dose and duration in Australia:

Insomnia; 2 mg once daily for up to thirteen weeks

Dosage regimen: 2mg

2mg oral prolonged release once daily at 8pm.

The adverse reactions were reported in clinical trials and were defined as possibly, probably or definitely related to treatment. A total of 9.5% of subjects receiving Circadin reported an adverse reaction compared with 7.4% of subjects taking placebo. Only those adverse events occurring in subjects at an equivalent or greater rate than placebo have been included.

Uncommon

Irritability, Nervousness, Restlessness, Insomnia, Abnormal dreams, Anxiety, Migraine, Lethargy Psychomotor hyperactivity, Dizziness, Somnolence, Abdominal pain, Abdominal pain upper, Mouth Ulceration, Dry mouth, Hyperbilirubinaemia, Dermatitis, Night Sweats, Pruritus, Rash, Pruritus Generalised, Dry Skin, Pain in extremity, Menopausal symptoms, Asthenia, Chest Pain, Glycosuria, Proteinuria, Liver Function Test Abnormal, Weight increased

Known adverse effects: Rare

Herpes zoster, Leukopenia, Thrombocytopenia, Angina Pectoris, Palpitations Hypertriglyceridaemia, Hypocalcaemia, Hyponatraemia, Mood altered, Aggression, Agitation, Crying, Stress Symptoms, Disorientation, Early morning awakening, Libido increased, Depressed mood, Depression, Syncope, Memory impairment, Disturbance in attention, Dreamy state, Restless Legs Syndrome, Poor quality sleep, Paresthesia, Visual acuity reduced, Vision blurred, Lacrimation increased, Vertigo positional, Vertigo, Hot flush, Gastrooeshophageal Reflux Disease, Gastrointestinal disorder, oral Mucosal Blistering, Tongue Ulceration, Gastrointestinal upset, Vomiting, Bowel sounds abnormal, Flatulence, Salivary hypersecretion, Halitosis, Abdominal Discomfort, Gastric disorder, Gastritis, Eczema, Erythema, Hand Dermatitis, Psoriasis, Rash Generalised, Rash pruritic, Nail disorder, Arthritis, Muscle, Neck pain, Night cramps, Priapism Prostatis, Fatigue, Pain, Thirst, Polyuria, Hematuria, Nocturia, Hepatic enzyme increased, Blood Electrolytes Abnormal, Laboratory Test Abnormal.

The following precautions are listed in the information for melatonin:

Drowsiness: Circadin may cause drowsiness. Therefore the product should be used with caution if the effects of drowsiness are likely to be associated with a risk to safety.

Effects on ability to drive and operate machinery: Circadin has negligible influence on the ability to drive and use machines. Nevertheless, patients should avoid engaging in hazardous activities (such as driving or operating machinery) aftertaking Circadin.

Autoimmune diseases: No clinical data exist concerning the use of Circadin in individuals with autoimmune diseases. Therefore Circadin is not recommended for use in patients with autoimmune diseases.

Excipients: The tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, the LAPP lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Effects on fertility: No significant effects on fertility or reproductive performance were observed in rats given oral melatonin prior to mating through to early gestation at doses over 900-fold the recommended clinical dose, based on body surface area.

Use in pregnancy: Category B3.

No significant effects on embryofetal development were observed in rats given oral

melatonin during the period of organogenesis at doses over 900-fold the recommended clinical dose, based on body surface area.

No clinical data on exposed pregnancies are available. In view of the lack of clinical data, use in pregnant women and by women intended to become pregnant is not recommended.

Known contraindications/warnings:

Use in lactation:

Maternal transfer of exogenous melatonin to the fetus via the placenta or milk has been demonstrated in several animal species including rats, hamsters, goats, monkeys and cows. A slight reduction in post-natal growth, viability and development was found in rats given oral melatonin during gestation through weaning at doses over 900-fold the recommended clinical dose, based on body surface area; the no-effect dose was over 250-fold the clinical dose. Endogenous melatonin has been detected in human breast milk, thus exogenous melatonin is likely excreted into human milk. The effects of melatonin on the nursing infant have not been established. Therefore, breast-feeding is not recommended in women under treatment with melatonin.

Paediatric use:

Circadin is not recommended for use in children and adolescents below 18 years of age due to insufficient data on safety and efficacy.

Use in the elderly:

Melatonin metabolism is known to decline with age. Across a range of doses, higher AUC and Cmax levels have been reported in older subjects compared to younger subjects, reflecting the lower metabolism of melatonin in the elderly.

Carcinogenicity:

An oral lifetime carcinogenicity study with melatonin in rats showed an increased incidence of thyroid follicular cell adenomas in males at doses around 700-fold the recommended clinical dose, based on body surface area. No neoplastic tissue histopathology was examined at lower doses and therefore the no-effect dose could not be determined. These effects were associated with liver enzyme induction in this species and are unlikely to be relevant to humans.

Genotoxicity:

Results from a standard battery of in vitro and in vivo assays showed no evidence of a genotoxic potential for melatonin.

Interactions with other medicines:

Pharmacokinetic interactions

Hepatic enzymes - Melatonin has been observed to induce CYP3A in vitro at supratherapeutic concentrations. The clinical relevance of the finding is unknown. If induction occurs, plasma concentrations of concomitantly administered drugs can be reduced. Melatonin does not appear to induce CYP1A enzymes in vitro at supra-therapeutic concentrations. Therefore, interactions between melatonin and other active substances as a consequence of melatonin's effect on CYP1A enzymes are not likely to be significant. Melatonin's metabolism is mainly mediated by CYP1A enzymes. Therefore, interactions between melatonin and other active substances as a consequence of their effect on CYP1A enzymes is possible:

Quinolones - CYP1A2 inhibitors such as quinolones may give rise to increased melatonin exposure.

Carbamazepine and rifampicin - CYP1A2 inducers such as carbamazepine and rifampicin may give rise to reduced plasma concentrations of melatonin.

Fluvoxamine - Caution should be exercised in patients on fluvoxamine, which increases melatonin levels (17-fold higher AUC and 12-fold higher serum Cmax) by inhibiting its metabolism by hepatic cytochrome P450 (CYP) isozymes CYP1A2 and CYP2C19. The combination should be avoided.

5- or 8-methoxypsoralen - Caution should be exercised in patients on 5- or 8-methoxypsoralen (5 and 8-MOP), which increases melatonin levels by inhibiting its metabolism.

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Cimetidine - Coadministration of CIRCADIN with cimetidine resulted in a 1.7 fold increase in exposure to melatonin with no change in the exposure to cimetidine. Caution should be exercised in patients on cimetidine, a CYP2D inhibitor which increases plasma melatonin levels by inhibiting its metabolism.

Concurrent drugs to be avoided:

Cigarette smoking - Cigarette smoking may decrease melatonin levels due to induction of CYP1A2.

Oestrogens - Caution should be exercised in patients on oestrogens (e.g. contraceptives or hormone replacement therapy), which increase melatonin levels by inhibiting its metabolism by CYP1A1 and CYP1A2.

Other - There is a large amount of data in the literature regarding the effect of adrenergic agonists/antagonists, opiate agonists/antagonists, antidepressant medicinal products, prostaglandin inhibitors, benzodiazepines, tryptophan and alcohol, on endogenous melatonin secretion. Whether or not these active substances interfere with the dynamic or kinetic effects of Circadin or vice versa has not been studied.

Pharmacodynamic interactions

Alcohol - Alcohol should not be taken with Circadin, because it reduces the effectiveness of Circadin on sleep. The prolonged release characteristics of Circadin may be altered by alcohol, resulting in immediate release of melatonin.

Hypnotics - Circadin may enhance the sedative properties of benzodiazepines and non-benzodiazepine hypnotics, such as zaleplon, zolpidem and zopiclone. In a clinical trial, there was clear evidence for a transitory pharmacodynamic interaction between Circadin and zolpidem one hour following co-dosing. Concomitant administration resulted in increased impairment of attention, memory and co-ordination compared to zolpidem alone.

Thioridazine and imipramine - Circadin has been co-administered in studies with thioridazine and imipramine, active substances which affect the central nervous system. No clinically significant pharmacokinetic interactions were found in each case. However, Circadin co-administration resulted in increased feelings of tranquility and difficulty in performing tasks compared to imipramine alone, and increased feelings of "muzzy-headedness" compared to thioridazine alone.

Effect on laboratory tests:

No information is available on the effect of melatonin on laboratory tests.

10. Declarations And Signatures

Applicant / Principal Researchers (including students where permitted)

Project Title (in full): Randomised double-blind placebo-controlled phase III trial of oral

melatonin for the prevention of delirium in hospital in people with

advanced cancer

HREC to which this application is made:

HREC Reference number:

I/we certify that:

- All information is truthful and as complete as possible.
- I/we have had access to and read the National Statement on Ethical Conduct in Research InvolvingHumans.
- The research will be conducted in accordance with the National Statement.
- The research will be conducted in accordance with the ethical and research arrangements of the organisations involved.

- The research will be conducted in accordance with the ethical and research arrangements of the organisations involved.
- I/we have consulted any relevant legislation and regulations, and the research will be conducted in accordance with these.
- I/we will immediately report to the HREC anything which might warrant review of the ethical approval of the proposal (NS 2.37), including:
- serious or unexpected adverse effects on participants;
- proposed changes in the protocol; and
- unforseen events that might affect continued ethical acceptability of the project.
- I/we will inform the HREC, giving reasons, if the research project is discontinued before the expected date of completion (NS 2.38);
- I/we will not continue the research if ethical approval is withdrawn and will comply with any special conditions required by the HREC (NS. 2.45);
- I/we will adhere to the conditions of approval stipulated by the HREC and will cooperate with HREC monitoring requirements. At a minimum annual progress reports and a final report will be provided to the HREC.

Applicant / Chief Researcher(s) / Principal Researcher(s)

Professor Meera Agar Faculty of Health, SWSLHD Palliative Care Department	Signature	// Date
A/Prof Gideon Caplan Post-acute Services, Prince of Wales Hospital	Signature	// Date
A/Prof Peter Lawlor University of Ottawa, Canada	Signature	// Date
A/Prof Delwyn Bartlett Woolcock institute of Medical Research & The University of Sydney	Signature	/ Date
Prof David Currow Flinders University	Signature	// Date
Dr Jane Nikles University of Queensland	Signature	// Date
Prof Jane Phillips University of Technology	Signature	// Date
A/Prof Lawrence Lam University of Technology	Signature	/ Date
Ms Nikki McCaffrey Flinders University	Signature	// Date
Prof Wes Ely Vanderbilt University	Signature	// Date
Associate Researchers		
Dr Tim Luckett University of Technology	Signature	// Date
Ms Bev Noble Improving palliative care through clinical trials - NSW Palliative Care Clinical Trials group	 Signature	// Date

Dr AnnMarie Hosie University of Technology	Signature	/ Date
A/Prof Brian Le The Royal Melbourne Hospital	Signature	/ Date
A/Prof Jennifer Philip St Vincents Hospital	Signature	// Date
Ms Meg Brassil Palliative Care Clinical Studies Collaborative	Signature	//
A/Prof Peter Martin Barwon Health	Signature	//
Prof Richard Chye St Vincents Hospital, Sydney	Signature	//
A/Prof Shirley Bush University of Ottawa	Signature	// Date
Dr Andrew Teodorczuk Newcastle University	Signature	// Date
Dr Peter Allcroft Repatriation General Hospital	Signature	//

Supervisor(s) of student(s)

Project Title (in full): Randomised double-blind placebo-controlled phase III trial of oral

melatonin for the prevention of delirium in hospital in people with

advanced cancer

HREC to which this application is made:

HREC Reference number:

I/we certify that:

- I/we will provide appropriate supervision to the student to ensure that the project is undertaken in accordance with the undertakings above;
- I/we will ensure that training is provided necessary to enable the project to be undertaken skilfully and ethically.

Heads of departments/schools/research organisation

Project Title (in full): Randomised double-blind placebo-controlled phase III trial of oral

melatonin for the prevention of delirium in hospital in people with

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HREC to which this application is made:

HREC Reference number:

I/we certify that:

- I/we are familiar with this project and endorse its undertaking;
- the resources required to undertake this project are available;
- the researchers have the skill and expertise to undertake this project appropriately or will undergo appropriate training as specified in this application.

Title	First Name		Surname
Position		Organisation	n Name
Signature		// Date	

11. Attachments

List of Attachments

Core Attachments	Attachments which may be required/appropriate
Recruitment/invitation	Copy of advertisement, letter of invitation etc
Participant Information	Copy or script for participant Copy or script for parent, legal guardian or person responsible as appropriate
Consent Form	Copy for participant For parent, legal guardian or person responsible as appropriate For, optional components of the project eg. genetic sub study
Peer review	Copy of peer review report or grant submission outcome
HREC approvals	Copy of outcome of other HREC reviews

Attachments specific to project or participant Attachments which may be required/appropriate group

People whose primary language is other than
English translation of participant information/consent forms

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English (LOTE)

Aboriginal and/or Torres Strait Islander Evidence of support / permission of elders and/or other appropriate

peoples bodies

Participant information elements

Core Elements

Provision of information to participants about the following topics should be considered for all research projects.

Core Elements	Issues to consider in participant information
About the project	Full title and / or short title of the project Plain language description of the project Purpose / aim of the project and research methods as appropriate Demands, risks, inconveniences, discomforts of participation in the project Outcomes and benefits of the project Project start, finish, duration
About the investigators / organisation	Researchers conducting the project (including whether student researchers are involved) Organisations which are involved / responsible Organistions which have given approvals Relationship between researchers and particpants and organisations
Participant description	How and why participants are chosen How participants are recruited How many participants are to be recruited
Participant experience	What will happen to the particant, what will they have to do, what will they experience? Benefits to individual, community, and contribution to knowledge Risks to individual, community Consequences of participation
Participant options	Alternatives to participation Whether participation may be for part of project or only for whole of project Whether any of the following will be provided: counselling, post research follow-up, or post research access to services, equipment or goods
Participants rights and responsibilities	That participation is voluntary That participants can withdraw, how to withdraw and what consequences may follow Expectations on participants, consequences of non-compliance with the protocol How to seek more information How to raise a concern or make a complaint
Handling of information	How information will be accessed, collected, used, stored, and to whom data will be disclosed Can participants withdraw their information, how, when Confidentiality of information Ownership of information Subsequent use of information Storage and disposal of information
Unlawful conduct	Whether researcher has any obligations to report unlawful conduct of participant

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Financial issues How the project is funded

Declaration of any duality of interests

Compensation entitlements

Costs to participants

Payments, reimbursements to participants

Commercial application of results

Results What will participants be told, when and by whom

Will individual results be provided

What are the consequences of being told or not being told the results of

research

How will results be reported / published

Ownership of intellectual property and commercial benefits

Cessation Circumstances under which the participation of an individual might

cease

Circumstances under which the project might be terminated

Research Specific Elements

Provision of information to participants about the following topics should be considered as may be relevant to the research project.

Specific to project or participant group	Additional issues to consider in participant information
Aboriginal and/or Torres Strait Islander peoples	Describe consultation process to date and involvement of leaderswhether ATSI status will be recorded