



ROYAL ADELAIDE HOSPITAL
INTENSIVE CARE UNIT

Research Grants

2020

ROYAL ADELAIDE HOSPITAL ALLIED HEALTH GRANT

Konstantopoulos P, Chapple L, Yeung D, Corsini N.

Understanding nutritional requirements in patients undergoing haematological stem cell transplant (SCT) to improve clinical and patient-centred outcomes: A pilot study.

Value: \$29,699

AMERICAN SOCIETY OF PARENTERAL AND ENTERAL NUTRITION

Kouw I, Chapple L, Chapman M, Horowitz M, Jones K, Summers M.

The effect of enteral feeding pattern on glycemic control and gastrointestinal function in critically ill patients.

Value: \$13,950

2019

INTENSIVE CARE FOUNDATION

Chapple L, Reddi B, Ridley E, Kemp P, Chapman M.

MUSCLE health in response to augmented PROtein delivery in critically ill patients (The MUSCLE-PRO study).

Value: \$24,494

ALLIED HEALTH RESEARCH COLLABORATION (SA HEALTH, UNIVERSITY OF SOUTH AUSTRALIA, THE HOSPITAL RESEARCH FOUNDATION)

Kurmis R, Gauro J, Vale E, Chapple L, Yandell R, Dowling S, Hill A, Greenwood J.

Determination of nutritional requirements for severe burn injury patients requiring application of Novosorb Biodegradable Temporising Matrix using indirect calorimetry: A pilot study.

Value: \$26,000

ROYAL ADELAIDE HOSPITAL CLINICAL PROJECT GRANT

Chapple L, Weinel L, Summers M, O'Connor S, Horowitz M, Chapman M.

Nutrient regulation in survivors of critical illness.

Value: \$48,425

ROYAL ADELAIDE HOSPITAL ALLIED HEALTH GRANT

Sierp E, Chapple L, Yandell R, Kurmis R, Chapman M.

Factors that influence severity and timing of gastrointestinal motility in critically ill burn patients.

Value: \$26,618

THE HOSPITAL RESEARCH FOUNDATION PROJECT GRANT

Chapple L

Value: \$240,000

2018

AMERICAN SOCIETY OF PARENTERAL AND ENTERAL NUTRITION GRANT

Chapple L, Chapman M, Summers M, Jones K, Deane A.

The effect of standard versus energy dense feeds on gastric emptying and glucose metabolism in critically ill patients.

Value: \$US25,000



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

NHMRC PROJECT GRANT

Chapman M, Deane A, Soenen S, van Loon L, Jones K, Chapple L.
Protein Absorption and Kinetics in Critical Illness (APP1144496)
Value: \$1,233,268 (2018 – 2020)

ROYAL ADELAIDE HOSPITAL CLINICAL PROJECT GRANT

Gluck S, Worthington M, Nadel M, Finnis M, Chapman M, Iwashyna TJ and Deane AM
An open-source smartphone application to monitor patients prior to and following elective coronary artery bypass grafting: A prospective cohort study (The SMART-HEART Study).
Value: \$16,805

ROYAL ADELAIDE HOSPITAL CLINICAL PROJECT GRANT

Chapple L, Summers M, Weinel L, Chapman M.
Resolution of Elements Influencing Nutritional Status After critical illness (REINSTATE trial).
Value: \$49,959

SOCIETY OF CRITICAL CARE MEDICINE

Dr Samuel Gluck
Thrive Peer Support Collaborative (ICU Survivors)

2017

AusPEN PROJECT GRANT

Chapple L, Summers M, Deane A, Chapman M.
Long-term effects of critical illness on energy intake, appetite, gastric emptying and appetite-regulating hormones in adult survivors of intensive care unit admission.
Value: \$20,000

BAXTER HEALTHCARE CORPORATION, GLOBAL SCIENTIFIC REVIEW COUNCIL

Ridley E, Chapple L, Davies A, Deane A, Hodgson C, Cooper J, Bailey M. 2017.
Intensive nutrition in critically ill adults: A pilot randomised controlled study.
Value: \$2,400,000

INTENSIVE CARE FOUNDATION GRANT

Deane A, Poole A, Kar P, Finnis M, Martensson J, Finfer S, Horowitz M and Bellomo R
Liberal glucose Control in critically ill patient with pre-existing type 2 Diabetes (LUCID): a phase IIB multi-centre single-blinded parallel group randomised control trial.
Value: \$25 000

NHMRC PROJECT GRANT

Deane AM, Finfer S, Cook D, Myburgh J, Young P, Guyatt GH, Chapman MJ and Venkatesh B. *Re-Evaluating the Inhibition of Stress Erosions (REVISE): Gastrointestinal bleeding prophylaxis in ICU*
Value: \$2,955,164 (2017 – 2021)

ROYAL ADELAIDE HOSPITAL NHMRC ‘NEAR MISS’ GRANT

Ali Abdelhamid Y, Jones K, Horowitz M, Kar P, Phillips L, Nguyen T and Deane AM.
Project title: *Prevalence, mechanisms and impact of post-prandial hypotension in elderly survivors of ICU.*
Value: \$49,207

ROYAL ADELAIDE HOSPITAL NHMRC ‘NEAR MISS’ GRANT

Chapman M, Deane A, Soenen S, Van Loon L, Jones K, Chapple L, Yandell R, O’Connor S, Horowitz M, Lange K.
Protein absorption and kinetics in critical illness.



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

Value: \$57,205

ROYAL ADELAIDE HOSPITAL CLINICAL PROJECT GRANT

Kar P, Deane AM, Horowitz M, Finfer S, Bellomo R, Finnis ME, Maiden M and Poole A.

Liberal glucose Control in critically ill patient with pre-existing type 2 Diabetes (LUCID): a phase IIB multi-centre randomised control trial

Value: \$49,950

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Stephens JE, Jones KL, Rayner CK, Kar P, Deane AM and Horowitz M.

Acute hypoglycaemia and gastric emptying – ‘dose-response’ and impact on oral drug absorption

Value: \$30,000

REBECCA L COOPER MEDICAL RESEARCH FOUNDATION GRANT

Horowitz M, Rayner CK, Jones KL, Feinle-Bisset C, Chapman MJ and Deane AM.

Magpix multiplex for analysing gut hormones

Value: \$25,000

THE UNIVERSITY OF ADELAIDE INVESTMENT FOR SUCCESS NHMRC NEAR MISS GRANT

Chapman M, Deane A, Soenen S, Chapple L.

Ultrasound probe for Measurement of muscle thickness

Value: \$10,080

2016

ACEM EARLY CAREER. RESEARCHER GRANT.

Maiden MJ

Project Title: Changes to red cell in septic shock.

Value: \$20,000

DIABETES AUSTRALIA RESEARCH TRUST GENERAL PROJECT GRANT

Phillips LK, Horowitz M, Shaw JE, Deane AM and Plummer MP.

Project title: Glycaemia in the critically ill - dysglycaemia as a predictor for incident type 2 diabetes and the effect of pre-existing type 2 diabetes on outcomes in survivors of critical illness.

Value: \$59,915

HEALTH COUNCIL OF NEW ZEALAND

Young P, Beasley R, McArthur C, McGuinness S, Freebairn R, Mackle D, Bellomo R, Finfer S, Bailey M, Deane A, Litton E, Eastwood G and Panwar R.

ICU: ICU-ROX: An ICU RCT of conservative vs. standard Oxygen therapy

Value: NZ\$1,404,525

INTENSIVE CARE FOUNDATION

Ali Abdelhamid Y, Phillips L, Horowitz M and Deane AM.

Project title: Survivors of ICU with type 2 diabetes and the effect of shared care follow up clinics: The SWEET-AS feasibility study.

Value: \$35,000

ROYAL ADELAIDE HOSPITAL NHMRC ‘NEAR MISS’ GRANT

Deane AM

Project title: Glucose metabolism in survivors of ICU.

Value: \$50,000

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Deane AM, Cook DJ, Finfer S, Guyatt G, Poole A and Alhazzani W.



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

Project title: *REVISE: Re-evaluating the inhibition of stress erosions: gastrointestinal bleeding prophylaxis in ICU.*

Value: \$48,696

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Costello L, Chapman MJ and Deane AM.

Project title: *Quantification of muscle size and function in response to a randomised nutritional intervention in critically ill patients.*

Value: \$46,197

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Chapman MJ, Deane AM, Soenen S, Van Loon L and Costello L.

Project title: *The effect of protein hydrolysis on the rate and extent of protein absorption and muscle uptake in critically ill patients.*

Value: \$49,560

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Gluck S, Deane AM, Choo R and Iwashyna TJ.

Project title: *The feasibility and validity of obtaining pre-illness activity data in critically ill patients using 'smart-phone' technology: a validation study.*

Value: \$49,990

ROYAL ADELAIDE HOSPITAL RESEARCH FUND

Flabouris A.

Project title: *Standardized patient observation charts, triggered clinical reviews and the prevention of serious patient adverse events.*

Value: \$19,250

UNIVERSITY OF ADELAIDE SCHOOL OF MEDICINE EQUIPMENT

Jones KL, Phillips LK, Rayner CK and Deane AM

Grant: Mechanisms and management of postprandial hypotension

Value: \$7,200

UNIVERSITY OF ADELAIDE SCHOOL OF MEDICINE EQUIPMENT

Rayner CK, Horowitz M, Deane AM and Jones KL.

Grant: *Upper gastrointestinal motility and glycaemic control in patients with diabetes and the critically ill*

Value: \$38,040

2015

NHMRC PROJECT GRANT

Chapman MJ, Peake S, Bellomo R, Horowitz M, Davies AR, Deane AM

The Augmented versus Routine approach to Giving Energy Trial (TARGET)

Value \$3,534,236 (2015-2019)

ROYAL ADELAIDE HOSPITAL RESEARCH FOUNDATION CLINICAL PROJECT GRANT

Plummer MP, Deane AM, Jones KL and Hausken T

The effect of critical illness on gallbladder motility, lipid absorption and plasma cholecystokinin concentrations

Value \$49,565

ROYAL ADELAIDE HOSPITAL RESEARCH FOUNDATION CLINICAL PROJECT GRANT

Costello L, Chapman M, Deane A.



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

Quantification of muscle size and function in response to a randomised nutritional intervention in critically ill patients.

Value: \$46,198

ROYAL ADELAIDE HOSPITAL RESEARCH FOUNDATION CLINICAL PROJECT GRANT

Chapman M, Deane A, Soenen S, Van Loon L, Costello L.

The effect of protein hydrolysis on the rate and extent of protein absorption and muscle uptake in critically ill patients.

Value: \$49,560

THE MAURICE SANDO CHAIR OF ANAESTHESIA AND INTENSIVE CARE FOUNDATION SPONSORSHIP SCHEME PROJECT GRANT

Plummer MP, Deane AM, Finnis ME, Shaw JE, Moodie S and Biradar V.

Project title: A state-wide study to determine whether hyperglycaemia during critical illness identifies survivors at risk of subsequently developing diabetes.

Value: \$10,000

AusPEN SMALL RESEARCH GRANT

Costello L, Chapman M.

Project title: The provision of energy and protein in adults with moderate-severe traumatic brain injury: the relationship between nutrition provision and long-term outcomes.

Value: \$10,000

AusPEN PROJECT GRANT

Yandell R, Yaxley A, Hodges C, Deane AM

Nutritional status, nutritional intake, and energy requirements in non-invasively mechanically ventilated critically ill adult patients – A pilot study

Value \$20,000

INTENSIVE CARE FOUNDATION TRAINEE PROJECT GRANT

Plummer MP, Deane AM, Chapman MJ, Horowitz M, Jones KL

Gallbladder motility in critical illness

Value \$5,000

2014

AusPEN PROJECT GRANT

Costello L, Chapman M.

The provision of energy and protein in adults with moderate-severe traumatic brain injury (PEP-TBI).

Value: \$10,000

INTENSIVE CARE FOUNDATION

Young RL, Deane AM

Intestinal GLP-2 as novel target in critical illness-induced malabsorption

Value \$30,900

NEUROSURGICAL RESEARCH FOUNDATION GRANT.

Chapman M, Costello L

The provision of energy and protein after traumatic brain injury (PEP-TBI).

Value: \$28,150

ROYAL ADELAIDE HOSPITAL RESEARCH FOUNDATION, CLINICAL PROJECT GRANT

Plummer MP, Deane AM, Chapman MJ, Rayner C



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

The effect of routine pantoprazole administration when compared to placebo on gastrointestinal bleeding, ventilator-associated pneumonia and Clostridium Difficile infection in enterally-fed mechanically ventilated critically ill patients: A prospective randomised study

Value \$49,139

2013

ANZCA GRANT

Chapman M, Peake S, Davies A, Deane A

The augmented versus routine approach to giving energy trial (TARGET) in Intensive Care: A feasibility study

Value \$34,300

DIABETES AUSTRALIA RESEARCH TRUST GENERAL GRANT

Deane AM, Bellomo R, Jenkins A, Horowitz M

Optimal glucose targets in critically ill patients with pre-existing type-2 diabetes and chronic hyperglycaemia

Value \$60,000

RAH RIBG GRANT

Value \$70,000

2012

NHMRC CRE GRANT

Horowitz M, Wittert G, Clifton P, Rayner C, Chapman I, Feinle Bisset C, Jones K, Noakes M, Chapman M, Nguyen N

Centre of research excellence in translating nutritional science to good health

Value \$2,499,990 (2012 – 2017)

NHMRC PROJECT GRANT

Deane AM

Project title: *Causes and management of abnormally elevated blood glucose concentrations in the critically ill (App 1025648)*

Value \$416,175 (2012 – 2014)

NHMRC PROJECT GRANT

Chapman MJ, Nguyen NQ, Horowitz M, Rayner CK, Jones K and Deane AM

Project title: *Optimising nutrient delivery and absorption in critically ill patients (App 1025186)*

Value \$542,500 (2012 – 2014)

ARC LINKAGE GRANT – LP120100606

Hayball J D, Sproston K, Chapman MJ

The development of a potent new passive immunotherapeutic for the treatment and prevention of bacterial sepsis and septic shock

Value: \$183,000 (2012 – 2014)

Partner Organisation(s).BTG Australasia P/L, Royal Adelaide Hospital

ROYAL ADELAIDE HOSPITAL RESEARCH GRANT FOR ALLIED HEALTH-PHARMACY-NURSING

Pryor, L, Ward, E, Cornwell, P, O'Connor, S & Chapman, M

Project title: *Speech production during mechanical ventilation via a cuffed tracheostomy tube: A feasibility study comparing two tracheostomy tube designs*

Value \$6,000 (2012 – 2013)

SPEECH PATHOLOGY AUSTRALIA POST GRADUATE RESEARCH GRANT



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

Pryor, L, Ward, E, Cornwell, P, O'Connor, S & Chapman, M

Project title: *Speech production using a cuffed tracheostomy tube: A comparison of two tracheostomy tube designs*

Value \$2 000 (2012 – 2013)

REBECCA L COOPER MEDICAL RESEARCH FOUNDATION GRANT

Horowitz, M, Rayner, CK, Jones, KL & Deane, AM

Project title: Measurement of gastrointestinal hormones in patients with diabetes and critical illness-induced hyperglycaemia.

Value: \$22,000

2011

ROYAL ADELAIDE HOSPITAL ALLIED HEALTH RESEARCH GRANT

Pryor, L, Ward, E, Cornwell, P, O'Connor, S & Chapman, M

Project title: *The effect of nasogastric tubes on swallowing physiology and airway protection in older healthy volunteers.*

Value \$5, 013 (2011 – 2012)

ROYAL ADELAIDE HOSPITAL RESEARCH COMMITTEE MARY OVERTON PROJECT GRANT

Deane AM

Project title: *The Effect of Calorie Goal on Outcome in Critically Ill Patients. A feasibility study*

Value \$40,000

MEDVET LABORATORIES' 2011 ROUND FOR SPECIAL RESEARCH PROJECTS

Deane AM, and Young, RL

Project title: *The Intestinal Glucose Transporter SGLT-1 as a novel Therapeutic Target in Critical Illness*

Value \$95,000

ROYAL ADELAIDE HOSPITAL RESEARCH GRANT FOR ALLIED HEALTH-PHARMACY-NURSING

Pryor, L, Ward, E, Cornwell, P, O'Connor, S & Chapman, M

Project title: *Retrospective review of tracheostomy practices across a tertiary hospital: Is there consistency in management.*

Value \$15, 893

2010

SYLVIA AND CHARLES VIERTEL CHARITABLE FOUNDATION ESTABLISHMENT GRANT FOR CLINICAL INVESTIGATORS

Deane AM

Project title: Mechanisms and management of disordered glucose metabolism in the critically ill

Value \$50,000

INTENSIVE CARE FOUNDATION

Deane AM, Young RL, Chapman MJ, O'Connor S, Rayner CK and Horowitz M

Project title: *Effect of critical illness on sweet taste receptors, glucose transporters, glucose absorption and secretion of glucagon-like peptide-1.*

Value \$45,000

ANZCA GRANT 11/015.

Chapman MJ, Deane A

Project Title: *The Effect of exogenous glucagon-like peptide -1 (GLP-1) on glucose absorption in critically ill patients.*



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

Value \$32,517

2009

NHMRC GRANT

Fraser R, Chapman M, Rayner C, Holloway RH, Holtman G, Horowitz M
Impact of gastrointestinal dysmotility on enteral nutrition in the critically ill
Value \$618,105

AUSTRALIAN SOCIETY FOR PARENTERAL AND ENTERAL NUTRITION RESEARCH GRANT

Deane AM, Yandell R, Horowitz M and Chapman MJ
Project title: *Exogenous GIP in the critically ill*
Value \$4,400

2008

ROYAL ADELAIDE HOSPITAL CLINICAL PROJECT GRANT

Deane A, Bryant L, McConnell H, Chapman M, Holloway R, Fraser R.
The effects of intravenous sedation on the lower oesophageal sphincter: a comparison between dexmedetomidine and propofol in humans
Value \$21,274

2007

ANZCA GRANT

Chapman M, Deane A, Fraser R, Jones K, Holloway R and Horowitz M
Effects of glucagon-like peptide -1 on glucose levels and small intestinal transit in critically ill patients.
Value \$40,000

INTENSIVE CARE FOUNDATION GRANT

Chapman MJ
Absorption and upper gastrointestinal motility in critical illness.
Value \$20,000 (awarded, but not accepted.)

ROYAL ADELAIDE HOSPITAL RESEARCH PROJECT GRANT

Chapman MJ, Deane A, Nguyen N, Holloway R, Fraser R
Glucose feedback inhibition of gastroduodenal motility in critical illness
Value \$16,700

2005

ANZCA GRANT

Chapman MJ, Fraser RJ, Dent J, Horowitz M, Holloway R, Jones K, Young R
Oesophageal, gastric and small intestinal motility in critical illness.
Value \$491,700 (2005 – 2007)

ANZCA GRANT

Chapman MJ, Fraser RJ
Effect of sedation on upper GI motility, CCK levels and glucose absorption in ICU patients
Value \$40,000



ROYAL ADELAIDE HOSPITAL INTENSIVE CARE UNIT

2003

NHMRC RESEARCH GRANT

Chapman MJ, Fraser RJ, Dent J, Horowitz M, Holloway R, Jones K, Young R.
Upper Gastrointestinal and absorptive function in critically ill patients
Value \$423,984. (2003 – 2005)

SPF GRANT

Chapman MJ, Fraser RJ
Effect of sedation on upper GI motility, CCK levels and glucose absorption in ICU patients.
Value \$15,000

2002

ANZCA RESEARCH GRANT APPLICATION

McIntyre P, Young RJ
Obstructive sleep apnoea: towards optimal post-operative analgesia.

ANZCA RESEARCH GRANT.

Chapman M, Young RJ, Fraser R, Horowitz M.
Motor patterns and gastric emptying in the critically ill.
Value \$15,000

2001

◆ ROYAL ADELAIDE HOSPITAL RESEARCH PROJECT GRANT

Chapman M, Bartholomeusz D, Fraser RJ, Horowitz M, Jones K, Young R
The effect of timing of the initiation of enteral feeding on gastric emptying and glucose absorption in critically ill patients
Value \$15,000