**Current Research Projects at Northern Health**

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| Clinical Division | Project Title |
| Emergency Services | 1. A randomised blind placebo controlled trial of hydrocortisone in critically ill patients with septic shock (ADRENAL) |
| 1. Nebulised heparin for lung injury. A multi-centre, randomised, double blind, placebo controlled trial (CHARLI) |
| 1. Sedation practice in intensive care evaluation: SPICE III: A prospective multicentre randomised controlled trial of early goal directed sedation compared with standard care in mechanically ventilated partients in intensive care (SPICE) |
| 1. National study of family experiences of organ and tissue donation (Donor Family Study Waves 2-4) |
| 1. Proton Pump Inhibitors vs. Histamine-2 REceptor Blockers for Ulcer Prophylaxis Therapy in the Intensive Care Unit (PEPTIC) |
| 1. The Augmented versus Routine approach to Giving Energy Trial: A randomised controlled trial. (The TARGET Nutrition Study) |
| 1. STandard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRTAKI): A MultiCentre, Randomized, Controlled Trial |
| 1. Responding to the needs of Children/Young people visiting patients in the intensive care unit |
| 1. Factors associated with patients undergoing Medical Emergency Team (MET) review at a metropolitan teaching hospital: a multi-faceted audit of antecedent factors and patient outcomes Short Title:MET Call Audit |
| 1. Intensive Care outcomes from epidemic asthma following a thunderstrom |
| 1. Association between Time to Infection Management and In-hospital Mortality in the Northern Hospital ICU |
| 1. Panadeine Forte Audit |
| 1. Barriers and facilitators to framing in-hospital goals of patient care: physician’s perceptions - a mixed methods approach. |
| 1. Monitoring and Evaluation of the Victorian State Trauma System - Victorian State Trauma Registry (VSTORM & VOTOR) |
| 1. The Victorian Ambulance Cardiac Arrest Register (VACAR) |
| 1. Knowledge Translation in Australasian Paediatric Acute Care Settings: a multi-centred, cluster, randomised controlled trial comparing a tailored, theory informed Knowledge Translation intervention versus passive dissemination of a bronchiolitis guideline. PREDICT KT Study |
| 1. Reduction of Oxygen After Cardiac Arrest: The EXACT study |
| 1. The use of intramuscular ketamine by paramedics in the management of the severely agitated patient |
| 1. "Exploring the delivery of education in the clinical setting to improve paediatric triage education in Australian emergency departments" |
| 1. Ed Medicine Screening tool study |
| 1. Northern Emergency Department Step on Sepsis |
|  | 1. Prospective, multi centre, international registry of male and female patients newly diagnosed with atrial fibrillation. GARFIELD-AF |
| 1. Victorian Cardiac Outcomes Registry (VCOR) |
| 1. PARAGON - A multicenter, randomized, double-blind, parallel group, active-controlled, study to evaluate the efficacy and safety of LCZ696 compared to valsartan, on morbidity and mortality in heart failure patients (NYHA Class II-IV) with preserved ejection fraction |
| 1. Victorian Cardiac Outcomes Registry (VCOR) - Heart Failure Snapshot |
| 1. Colchicine in Patients with Acute Coronary Syndromes - the COPS trial |
| 1. A clinical evaluation of the Medtronic Polymer-Free drug-eluting stent system in de novo native coronary artery lesions(RevElution) |
| 1. A phase III, double-blind, randomized placebo-controlled study to evaluate the effects of dalcetrapib on cardiovascular (CV) risk in a genetically defined population with a recent Acute Coronary Syndrome (ACS): The dal-GenE trial DAL-301 (Dal-GenE) |
| 1. Ivabradine in the prevention of Peri-operative Myocardial Injury (IPMI) |
| 1. PROTECT-ICD Trial: Programmed Ventricular Stimulation to Risk Stratify for Early Cardioverter-defibrillator Implantation to Prevent Tachyarrhythmia following Acute Myocardial Infarction |
| 1. DE novo Combination allopurinolthiopurine vs standard thiopurine in IBD patients Escalating to immunomodulators: a Randomized controlled trial (DECIDER study) |
| 1. A phase III randomised, double-blind trial to evaluate efficacy and safety of once daily empagliflozin 10 mg compared to placebo, in patients with chronic Heart Failure with preserved Ejection Fraction (HFpEF). |
| 1. The COlchicine for COronary Plaque MOdification in Acute Coronary Syndrome study. (COCOMO-ACS) study |
| 1. A phase III randomised, double-blind trial to evaluate efficacy and safety of once daily empagliflozin 10 mg compared to placebo, in patients with chronic Heart Failure with reduced Ejection Fraction (HFrEF). |
| 1. A Phase 3, Multicentre, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Investigate the Efficacy and Safety of CSL112 in Subjects with Acute Coronary Syndrome Protocol #: CSL112\_3001 [the ApoA-I Event ReducinG in Ischaemic Syndromes II (AEGIS-II) Study |
| 1. Imaging of Coronary Plaques in Subjects Treated With Evolocumab (HUYGENS) |
| 1. Optical Coherence Tomography Assessment for Acute Coronary Events in Type 2 Myocardial Infarction/Myocardial Injury |
| 1. The Massachusetts General Hospital Optical Coherence Tomography Registry (The MGH OCT Registry) |
| 1. Improving the quality of emergency care for women with heart attacks |

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| Clinical Division | Project Title |
| Medicine and Subacute Services | 1. Identifying risks for Thunderstorm Asthma in Seasonal Allergic Rhinitis (TAISAR) cohort study |
| 1. Does music listening during pulmonary rehabilitation in individuals with chronic obstructive pulmonary disease (COPD) improve outcomes? A mixed methods study |
| 1. Patients’ Perspectives on the Use of a Pulse Oximeter at home. |
| 1. Point prevalence of diabetes & hyperglycaemia in hospitalised patients at Northern and Melbourne Health |
| 1. PREDICT UC: Optimising Infliximab Induction therapy for Acute Severe Ulcerative Colitis – A Randomised Controlled Trial |
| 1. I6T-MC-AMAN: A Phase 3, Multicenter, Randomized, Double-Blind, Parallel, Placebo-Controlled Induction Study of Mirikizumab in Conventional-Failed and. Biologic-Failed Patients with Moderately to Severely Active Ulcerative Colitis (LUCENT 1) |
| 1. I6T-MC-AMBG: A Phase 3, Multicentre, Randomized, Double-Blind, Parallel-Arm, Placebo-Controlled Maintenance Study of Mirikizumab in Patients with. Moderately to Severely Active Ulcerative Colitis (LUCENT 2) |
| 1. Australian Stroke Clinical Registry (AuSCR) |
| 1. Fatigue After Stroke Trial (FAST): A randomised controlled study |
| 1. ATTUNE- ATrial fibrillation in sTroke: Utility of Neuroimaging Evaluation |
| 1. Participation in Safe Implementation of Treatments in Stroke (SITS) registry |
| 1. Retinal small vessel abnormalities and increased vascular risk |
| 1. The identification of novel genes for inherited renal disease, and understanding how these mutations cause disease: Optimisation of the clinical pathway |
| 1. Australian Follow-up Tracking and Enhancing Recovery after Acute Kidney Injury (AFTER - AKI) |
| 1. Early needs assessment of adult patients in acute care **(Subacute)** |
| 1. Memory and Mood in OSA treatment study **(Subacute)** |
| 1. Reducing the impact of aphasisa in stroke patients & their caregivers a year post onset via a brief early intervention **(Subacute)** |
| 1. The impact of health assets on outcomes for hospitalised older adults: Development and validation of a health assets index for hospitalised older adults. |
| 1. Does Electronic Prescribing Lead to Increased Prescribing Errors in the Elderly? A Pilot Study of Intern Prescribing Accuracy in Electronic versus Manual Systems. **(Subacute)** |
| 1. Preventing Avoidable Hospital Admissions for People with Dementia- An Evaluation of Carer and Staff Perspectives **(Subacute)** |
| 1. A Phase II randomised, double-blind, placebo-controlled pilot study to assess the efficacy and safety of BNC210 in hospitalised elderly patients with agitation **(Subacute)** |
| 1. Evaluating and monitoring the Goals of Patient Care Summary **(Subacute)** |
| 1. Exploring the needs of informal carers of people with advanced Parkinson's disease: a pilot study **(Subacute)** |
| 1. Effectiveness of a Falls Prevention Intervention in Medical Inpatients Using Lean Thinking Methodology **(Subacute)** |
| 1. The association between a secure GEM ward’s aggressive behaviour (RAGE) score and unplanned nursing leave **(Subacute)** |
|  | 1. resident- to resident elder mistreatment (R-REM) in resifential agend care **(Subacute)** |
| 1. Prosthetic joint infection in Australia and New Zealand observational (PIANO) study |
| 1. Establishing outcomes for people not regularly attending HIV care |

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| Clinical Division | Project Title |
| Cancer Services | 1. Establishment of a Tissue Bank to collect, store and distribute data, blood and tissue for ethically approved research projects |
| 1. A phase III trial evaluating the role of continuous letrozole versus intermittent letrozole following 4 to 6 years of prior adjuvant endocrine therapy for postmenopausal women with hormone receptor positive, node poitive, early stage breast cancer (SOLE trial) |
| 1. A randomised, multi-center, double-blind phase 3 study of PD-0332991 (oral CDK 4/6 INHIBITOR) plus letrozole versus placebo plus letrozole for the treatment of postmenopausal women with ER (+), HER2 (-) breast cancer who have not reeived any prior systemic anti-cancer treatment for advanced disease. |
| 1. PALLAS: PALbociclib CoLlaborative Adjuvant Study A randomized phase III trial of Palbociclib with standard adjuvant endocrine therapy versus standard adjuvant endocrine therapy alone for hormone receptor positive (HR+) / human epidermal growth factor receptor 2 (HER2)-negative early breast cancer |
| 1. LEAD - Lung cancer diagnostic and treatment pathways: a comparison between CALD and Anglo-Australian patients |
| 1. Establishing a biobank of colorectal and pancreatic cancer models for the pursuit of personalised therapies |
| 1. Pancreatic cancer: Understanding Routine Practice and Lifting End results (PURPLE) A Prospective Pancreatic Cancer clinical registry |
| 1. Lung Cancer Clinical Quality Registry |
| 1. Assessing Predictive and Prognostic Biomarkers in Pancreatic Cancer |
| 1. Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage III Colon Cancer: A Multicentre Phase II/III Randomised Controlled Study (DYNAMIC-III) |
| 1. How oesophageal cancer is diagnosed and treated in Victoria: understanding practice and treatment decisions. |
| 1. Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Locally Advanced Rectal Cancer: A Multicentre Randomised Study (DYNAMIC-Rectal) |
| 1. Evaluation of Global Coagulation Assays in patients with active malignancy and/or undergoing chemotherapy |
| 1. The AvR-CHOP study |
| 1. Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage II Colon Cancer (DYNAMIC II) |
| 1. Treatment of Recurrent and Advanced Colorectal Cancer (TRACC): A prospective multi-site registry |
| 1. A Phase 3, Double-blind, Randomized Study of BGB-290 versus Placebo as Maintenance Therapy in Patients with Inoperable Locally Advanced or Metastatic Gastric Cancer that Responded to Platinum-based First-line Chemotherapy |
| 1. DNA Analysis Informing Adjuvant Chemotherapy in Early Stage Pancreatic Cancer: A Multicentre Randomised Study (DYNAMIC-Pancreas) |
|  | 1. Upper Gastrointestianal Cancer Registry |
| 1. Healthy Living after Cancer (HLaC) - a telephone-delivered healthy lifestyle coaching program for cancer survivors |
| 1. Evaluation of the implementation of the use of My Cancer Care Record (MY CCR) |
| 1. A Population-Based Prostate Cancer Outcomes Registry Victoria (PCORVic) |
| 1. The role of CxBladder in identifying urothelial carcinonma in haematuria patients and it's place in triaging of cystoscopic investigation of haematuria |
| 1. BioGrid Australia - Australian Cancer Grid (ACG). |
| 1. Thrombotic Thrombocytopenic Purpra (TTP) Registry |
| 1. Response post tyrosine Kinase Inhibitor: assessment of sensitivity and therapeutic response to next line therapy in CML. The Australian RESIST Study |
| 1. A randomised, double-blind, multi-center study of denosumab compared with zoledronic acide (zometa) in the treathment of bone disease in subjects with newly diagnosed multiple myeloma (Denosumab 90090482) |
| 1. Myeloma & Related Diseases Registry (MRDR) |
| 1. Evaluation of new Biomarkers of thrombosis in a normal population as well as anticoagulated and hypercoagulable states |
| 1. Prospective VTE biomarker Study |
| 1. Global anticoagulant registry in the FIELD observing treatment and outcomes in patients with treated acute venous thromboembolic events in the real world (GARFIELD-VTE) |
| 1. An Australian, phase III, multi-centre, randomised trial comparing lenalidomide consolidation Vs no consolidation with chronic lymphocytic leukaemia and residual disease following induction chemotherapy (RESIDUUM (CLL6) |
| 1. A prospective, open-label, multicenter, randomised phase III trial to compare the efficacy and safety of a combined regimen of obinutuzumab and GDC-0199 (ABT-199) versus obinutuzumab and chlorambucil in previously untreated patients with CLL and coexisting medical conditions |
| 1. The donation, collection, storage and usage of blood and bone marrow samples for the investigation of CD4+ T cell fate in plasma cell dyscrasia. |
| 1. Evaluation of global coagulation assay parameters in normal and thrombocytopenic populations |
| 1. Evaluation of global coagulation assays in patients with High Risk cardiovascular Disease risk factors |
| 1. The Australasian Leukaemia & Lymphoma Group National Blood Cancer Registry and Biorepository |
| 1. A Phase III, double-blind, placebo-controlled, multicentre, randomized study of Pracinostat in combination with Azacitidine in patients 18 years with newly diagnosed acute myeloid leukemia unfit for standard induction chemotherapy. |

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| Clinical Division | Project Title |
| Surgery | 1. Acupressure for PONV (Stages 2 – 4) |
| 1. Endoscopic Polypectomy on Clopidogrel; a randomized controlled trial |
| 1. Cyanoacrylate glue vs tacks in fication for laparoscopic inguinal hernia repair |
| 1. Transition, threshold concepts and troublesome knowledge in medical education: Hurdles in becoming an intern doctor |
| 1. Is laparoscopy safe in pregnancy? Perioperative and obstetric outcomes of laparoscopic surgeries during pregnancy |
| 1. Retrospective review of upper gastrointestinal bleeding |
| 1. Are we choosing wisely at Northern health for inguinal hernia repair? |
| 1. Barrett’s Oesophagus: Review of patient outcomes and guideline adherence |
| 1. "Investigation of barriers and areas for improvement in plastic surgery care between General Practices in the Northern catchment and The Northern Hospital." |
| 1. Critical Care Use following elective primary hip and Knee joint |
| 1. Laparoscopic Cholecystectomy Video Assessment Study |
| 1. A multi-centre survey to evaluate the outpatient clinic experience in surgical education and training using cloud-based resources |
| 1. Acupressure for peri-surgical care: Implementing effective treatments to improve post-operative nausea and vomiting Short Title: Reducing post-surgical nausea and vomiting |
| 1. Australian Brest Device Registry (ABDR) |
| 1. "Clinical outcome and risk factors for failure in patients with a late acute prosthetic joint infection |
| 1. "Clinical outcome and risk factors for failure in patients with a late acute prosthetic joint infection" |
| 1. Joint replacement following hip fracture |
| 1. "Epidemiology, Management and outcomes of Traumatic Knee Dislocations (A VOTOR Report) Short Title: Traumatic Knee Dislocations" |
| 1. In Vivo Reproducibility of the KneeKG in Patients of Different BMIs |
| 1. Validation of Satisfaction Visual Analogue Score for Patient Satisfaction in Post Total Knee Arthroplasty Patient. Short Title: Validation of Satisfaction VAS in post TKA patient |
| 1. Evaluation of Biomet patient specific instrumentation in patients undergoing total shoulder replacement |
| 1. Patella Stabilisation surgery patient outcome scores |
| 1. Outcomes of operated ankle fractures treated with early weight bearing vs. Six weeks of plaster. |
| 1. ANZHFR – Australia & New Zealand Hip Fracture Registry |
| 1. Ideal positioning of elevated-rim acetabular liners in primary total hip replacements |
|  | 1. Knee Kinematics in patellofemoral dislocation patients |
| 1. Knee Kinematics in patients with ACL tear |
| 1. Medial pivot versus posterior stabilising total knee prosthesis: a comparison of early clinical and functional outcomes and patient satisfaction |
| 1. Surgery for Olecranon Fractures in the Elderly: a randomised controlled trial of operative vs. Non-operative treatment (SOFIE) |
| 1. Northern Health Orthopaedic Outcomes – Hip |
| 1. Anatomical features of the knee patellofemoural dislocation: An MRI based study |
| 1. Northern Health Orthopaedic Outcomes – Knee |
| 1. Prospective outcomes after creation of arteriovenous fistula (POCAF) |
| 1. TRAMOD |
| 1. The Perioperative ADministration of Dexamethasone and Infection - The PADDI trial |
| 1. Reduction Of Chronic Postsurgical Pain with Ketamine ROCKet Trial |
| 1. Does a correlation exist with either ROTEM or Thrombin Generation Assay and a venous thromboembolism risk assessment chart? The CLOT Study. |
| 1. "A feasibility study to determine if ROTEM may be used to correlate a postpartum venous thromboembolism risk score" |
| 1. Binational Colorectal Cancer Audit (VIC) - BCCA (VIC) |
| 1. Cultural perspectives on colorectal cancer screening and the reporting of bowel symptoms - the Arabic-Australian Story. Short title: Bowel health - the Arabic perspective |
| 1. The role of deep neuromuscular blockade in an ERAS programme for colorectal surgery. |

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| Clinical Division | Project Title |
| Women's & Children's Health | 1. Pilot evaluation of global coagulation assays in maternal and umbilical cord blood |
| 1. Improving management of mastitis in breastfeeding women |
| 1. THE CROSS-COUNTRY ULTRASOUND STUDY – CROCUS |
| 1. Harnessing Neuroplasticity to Improve Motor Performance in Infants with Cerebral Palsy: a Pragmatic Randomized Controlled Trial (GAME Trial) |
| 1. Northern Centre for Health Education and Research (NCHER) Reproductive Health Biobank |
| 1. Ronald McDonald Family Rooms: Understanding their outcomes for families with hospitalised children |
| 1. Antenatal corticosteroid therapy – do neonatal outcomes match expectations? The Northern Health experience |
| 1. "Meconium stained amniotic fluid- how great a risk is it? A population based study in the Northern Region, examining relevant maternal antenatal factors and associated neonatal outcomes" |
| 1. Does postnatal breastfeeding support improve rates of breastfeeding? |
| 1. A cross-sectional study to evaluate the knowledge and uptake of pertussis vaccination in postnatal women at The Northern Hospital |
| 1. Comparison of neonates receiving nasal Continuous Positive Airways Pressure in tertiary and non-tertiary centres in Victoria |
| 1. Rising obesity rates and compliance with Australasian recommendations in maternity care: trends in maternal obesity and clinical care of women with BMI > 50 at The Northern Hospital |
| 1. "Impact of Provision of Preschool Wheeze Action Plan on the Quality of Care in Children less than 6 years old with Wheezing" |
| 1. Parental attitudes to the free influenza vaccine for children under 5 years |
| 1. Australasian Maternity Outcomes Surveillance System (AMOSS) |
| 1. The My Baby's Movements (MBM) Study |
| 1. Australian and New Zealand Neonatal Network Register for Clinical Audit |
| 1. Evaluation of Group Antenatal and Postnatal Care for Refugee Women: Group Pregnancy Care STUDY |
| 1. Harmonising age pathology parameters in kids (HAPPI Kids) |
| 1. High-flow nasal cannulae use in non-tertiary centres for early respiratory distress (The HUNTER Trial) |
| 1. A Phase 2b Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of MEDI8897, a Monoclonal Antibody With an Extended Half-life Against Respiratory Syncytial Virus, in Healthy Preterm Infants |

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| Clinical Division | Project Title |
| Allied Health | 1. Effective sensory rehabilitation after stroke: Targeting viable train networks (CoNNECT) |
| 1. Expiratory Muscle Strength Training (EMST) versus traditional dysphagia rehabilitation for intervention of dysphagia in Parkinson’s disease in the community setting |
| 1. Does training family to help with physiotherapy for older people transitioning from hospital to the community increase falls-related self-efficacy? A randomised controlled trial and qualitative analysis. |
| 1. Functioning the community after inpatient rehabilitation |
| 1. Improving the Integration and Communication of End of Life Care Services - a Pilot Study |
| 1. Investigating the safety of a Low Calorie Diet using Optifast as a method of weight loss in obese patients receiving dialysis therapy |
| 1. Falls and Body Schema Research Project |
| 1. Effect of eccentrically biased aerobic exercise on quality of life and functional capacity in people with chronic heart failure: a randomised controlled trial. |
| 1. Retrospective evaluation of a lifestyle intervention program to reduce potentially avoidable hospital admissions and risk factors for metabolic syndrome. |
| 1. Validation of a dietitian independent novel nutritional assessment tool (DI-NNAT) utilising Computed Tomography (CT) for physical evaluation. Short Title: Dietitian independent novel nutritional assessment tool (DI-NNAT) |
| 1. Participation in the electronic Persistent Pain Outcomes Collaboration (ePPOC): An initiative to support continuous improvement in the quality and effectiveness of pain management in Australia |
| 1. The barriers to attendance in heart failure rehabilitation |
| 1. The utilisation of a clinical reasoning tool for pain by physiotherapists working in hospital and community settings. |
| 1. Improving the Physical Activity of Cancer Survivors through Wearable Technology - The IMPACT Trial |
| 1. The success of research implementation strategies on evidence-based decision-making by allied health managers: a randomised controlled trial |
| 1. Pressure reducing characteristics of offloading devices commonly used to manage diabetes-related foot ulceration |
| 1. "Implementation of a supervised implementation of a supervised exercise program for patients receiving cytotoxic and anti-cancer chemotherapy" |
|  | 1. Investigating the Dietary Habits and the impact of a Mediterranean diet in high risk cardiovascular patients |
| 1. "Investigating Malnutrition in Victorian Cancer Services: Malnutrition Prevalence Study 2018" |

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| Clinical Division | Project Title |
| Other | 1. Austin Health and Northern health clinical staff views on voluntarty assisted dying |
| 1. Point prevalence survey of delirium in Victorian public hospitals |
| 1. Incidence, Frequency and Attitudes to Code-switching in Interpreted Interactions |
| 1. HealthLinks: Chronic Care Evaluation |
| 1. "The Patient Handling Injuries Review of Systems (PHIRES) Toolkit: pilot and implementation trial" |
| 1. Exploring the communication structures and networks of senior staff in a public hospital’s clinical directorate. |
| 1. Assessing health practitioners' knowledge of the Medical Treatment Planning and Decisions Act |
| 1. Interprofessional Passport Project |
| 1. Assessing patient safety culture of junior and senior medical staff in a metropolitan teaching hospital |
| 1. Innovation Implementation in Healthcare: A resource Based View |
| 1. Investigating the effectiveness of 360 degrees (multi-source) feedback to facilitate Senior Medical Staff performance review. |
| 1. Evaluation of the Preceptorship Model for La Trobe University Undergraduate Nursing Student Placement at The Northern Hospital |
| 1. Improving quality of care for patients attending The Northern Hospital or attending Craigieburn Health Service |
| 1. Hospital Encounters of people with Cognitive Disability |