The Personal Health Informatics (PHIT) Group

Leveraging digital presence for health

http://flinders.edu.au/phit

Our Research Areas

• Developing health interventions, health services and enabling medical research utilising every day personal technologies and personal data

• Focus – behaviour change strategies, engagement, clinical processes, digital phenotyping, data to decisions

• Technologies - social media, m-health, wearables, electronic health records, large registries, cloud machine learning services.

• Priority area - Psychiatry and mental health
• Other areas - prostate cancer, sleep disorders, heart disease
Psychiatry

- Development of digital mental health interventions for both patients and clinicians
  - Understanding end user perspectives
    • Use of mental health technologies in clinical practice. (Orlowski et al 2016 (a), Orlowski et al 2016 (b))
  - Characterising current and emerging consumer apps for health behaviour change
    • PhD project: Finding effective elements that can produce behaviour change in apps
  - Mobile apps based interventions
    • Development of an online wellbeing intervention for young people (Antezana et al 2015)
  - Text messaging interventions
    • As therapy support with crisis patients (Bidargaddi et al 2015, Furber et al 2014)
  - Digital platforms for recruitment
    • Comparing paid and unpaid online recruitment for health interventions in young adults (Musiat et al.)

Psychiatry

- Exploring how personal digital footprints can shed new light on health behaviours and lead to better prevention care strategies or new treatments.
  - Collecting personal digital footprints in a standardised way
    • ‘From apps to lab: personal mental health datasets’-project in collaboration with ANDS
  - Digital phenotyping in major depressive disorders
    • Online Health Monitoring study - project in collaboration with SAHMRI Mind and Brain
Psychiatry

• Reusing existing large data sets for engagement and decision support interventions

  – Personal Health record applications
    • ‘Healthtimeline’ – an app for health professionals and patients to derive health related value from historical medical records stored in PCEHR through intuitive visual analytics.

  – Deriving decision support insights from large registry and hospital data sets
    • Mental health informatics

Our team (located at SAHMRI and Tonsley)

A/Prof Niranjan Bidargaddi
Associate Professor – Personal Health Informatics
niranjan.bidargaddi@flinders.edu.au
(08) 7221 8840

Megan Winsall
Research Officer – Personal Health Informatics
megan.winsall@flinders.edu.au
(08) 7221 8842

Yang Yang
ICT Officer – Personal Health Informatics
yang.yang@flinders.edu.au
(08) 7221 8843

Dr Peter Musiat
Research Fellow – Personal Health Informatics
peter.musi@flinders.edu.au
(08) 7221 8841

Dr Camille Short
NHMRC ECR Fellow
camille.short@adelaide.edu.au
(08) 8313 0532
Contact

If you are interested in utilising our research capabilities or in collaborating on projects, please contact Niranjan Bidargaddi (niranjan.bidargaddi@flinders.edu.au)

References

References

• ‘From apps to lab: personal mental health datasets’- project in collaboration with ANDS: [https://projects.ands.org.au/id/HVC07](https://projects.ands.org.au/id/HVC07)

• Online Health Monitoring study – project in collaboration with SAHMRI Mind and Brain: [http://mb.sahmri.com/](http://mb.sahmri.com/)

