Agricultural Health and Medicine, School of Medicine, Deakin University

Excellence in Innovation and Public Health Teaching

COUNCIL OF ACADEMIC PUBLIC HEALTH INSTITUTIONS AUSTRALIA (CAPHIA) 2014 AWARDS
CAHPIA Supporting Statement: Agricultural Health and Medicine

The National Centre for Farmer Health (NCFH) sits 300 kilometres west of Melbourne in the agricultural hub of Hamilton and is a partnership between Deakin University and Western District Health Service (WDHS). Rural populations, particularly those in agricultural communities require health and rural professionals to work across disciplines and across sectors to reduce the high rate of workplace deaths[1], preventable injuries and illness [2, 3] and understand agricultural practices in their community. To address these unique public health characteristics, education in agricultural health and medicine (AH&M) was established through the School of Medicine at Deakin University. Through Deakin, the NCFH partnership offers the only Graduate Certificate of Agricultural Health and Medicine (GCAHM) in Australia.

Prior to the GCAHM, there were no formal academic units for health and rural professionals to gain knowledge and develop expertise in public health and prevent, diagnose and treat the broader context of illness or injury that is specific to farming communities outside of ‘on the job’ experience. Exacerbating this was the difficulty the health workforce had connecting with farm men and women describing farmers as ‘hard to engage’ and like ‘a lost tribe’[4, 5]. With international and recently-trained professionals joining rural workforces it was essential to provide opportunities to improve situational knowledge and skills in line with growing societal expectations that health professionals make prevention a larger priority and be knowledgeable about specific population-based issues [6].

Our approaches to teaching that influence motivate and inspire students to learn.

To successfully teach AH&M education to predominantly postgraduate or returning students, the course utilises Kolb’s adult learning model[7] and Kirkpatrick’s four levels of learning evaluation[8]. The core curriculum includes two units of study: Agricultural Health and Medicine (HMF701) a five-day, face-to-face intensive course (see Attachment 1) and Healthy and Sustainable Agricultural Communities HMF 702 undertaken entirely online with a broader population focus. Our approach combines both developmental and operational online teaching styles. Students use (and share) their own experiences to give context to the curriculum. This approach harnesses the reality and possibility of making a difference and inspires students to learn. See videos of students Agriculturalist Amy Fay, Registered Remote Nurse Lisa Taggart and Public Health Registrar Dr Mark Newell (See Videos). Our teaching objective is to motivate and inspire rural health professionals to be more engaged, literate, competent and capable to address rural and farmer inequities through cross sector cooperation and critical thinking. The iterative nature of the GCAHM model encourages students to reflect on their approach to public health, prevention, delivery and practice of services in agricultural communities to motivate insight, identify gaps and address the broader attitudinal and environmental challenges of serving these populations.

Development of curricula and resources that reflect a command of the field

Agricultural Health and Medicine uses a curriculum framework from the College of Public Health, University of Iowa, the only other providers of Agricultural Health and Medicine training globally (see Attachment 2). Extensive research conducted by the NCFH and collaborators has been embedded into the lectures and learning materials provided in the GCAHM curricula. This has been an important and unique feature of the HMF701 and HMF702 unit that confirms the NCFH as experts in agricultural health and medicine. The curricula team is comprised of practising professionals from public health, medicine, agriculture, psychology, addiction, rural surgery, ergonomic design, respiratory medicine, and veterinary backgrounds (see Attachment 3) highlighting their command of the AH&M field. Problem based learning and group work to solve real agricultural community and public health issues are cornerstones of the course, in addition to immersive experiences including visits to livestock exchanges and working farms to understand the realities of environment, social determinants, OH &S, pesticides, machinery and livestock interactions. These visits not only embed the knowledge obtained, they establish the NCFH teaching and public health messages within the broader community.

Approaches to assessment and feedback that foster independent learning

Self-directed online discussion forums, group work assignments, short answer and multiple-choice questions (MCQ) essays and critical reviews are the assessment approaches used. Students also provide peer feedback and reflection during group work, and self-assessment of performance assists in fostering independent learning. Assessment tasks have been designed to:

- Reflect clear alignment between expected learning outcomes, what is taught and learnt, and the knowledge and skills assessed through a closed curriculum loop.
Assess the capacity to analyse and synthesize new information rather than just recall information

Provide students with explanatory and diagnostic feedback as well as grades.

An outline of our learning outcomes is provided (see Attachment 4). Unit topics, learning outcomes and assessments are annually reviewed to ensure they meet the expectation and requirements of a Graduate Certificate program at Deakin. The quality of our approaches has been formally recognised with AH&M receiving an overall average of 4.6/5 for all questions on the SETU surveys sitting well above the university and faculty unit averages. To improve the learning experience, all presenters are individually evaluated by the students using a 7 point Likert score on learning experience with feedback provided back to every presenter annually (see Attachment 5).

Scholarly activities that have influenced and enhanced learning and teaching

Recognising the diversity of public health and rural practice, the core units are available as elective units to a variety of disciplines and accredited for professional development through the Australian Veterinary Association, the Australian College of Rural and Remote Medicine, the Australian Association of Social Workers and the Australian College of Nursing. Deakin University also formally recognises the Australian College of Rural and Remote Medicine (ACRRM) and Royal Australian College of General Practitioners (RACGP) fellowships as credit for prior learning for GP registrars enrolled in the GCAHM. As AH&M is a new field of endeavour, scholarly activities that enhance learning and teaching and provide further contribution in the field has been important. Some of these include biennial conferences (http://www.farmerhealth.org.au/conferences) and supporting students with conference presentations and introductions to research communities. A 2013 survey (n =101) reported 98.8% of students believed their abilities in anticipating, diagnosing, treating and preventing occupational injuries had improved with 90.0% agreeing that AH&M had helped them address occupational and environmental hazards and advocate for their agricultural communities.

Respect and support for the development of students as individuals.

Students are exposed to a different network of professionals who work with agricultural communities. The cross-sectoral methods utilised means there are new areas to be learnt and opportunity for individual development and contribution. A recent example is the peer reviewed publication of a student’s assessment task by rural pharmacist Hana Morrissey [9] providing evidence of interdisciplinary support and personal and professional development. Our agricultural community respects the students and this is illustrated by the annual Southern Grampians Shire Council Civic reception to welcome students and academic presenters. To support students post AH&M, and provide ongoing development opportunities, a novel approach continues through www.farmerhealth.org.au. Reflecting best practice in public health standards through its accreditation through Health on the Net (HONcode) this site has over 82,000 unique users (see Attachment 6) keeping students connected to each other and global communities in this growing field of AH&M.

References

HMF701 Agricultural Health and Medicine is offered by the School of Medicine at Deakin University. It aims to develop the next generation of rural and agricultural health leaders to improve the health, safety and wellbeing of rural and remote Australians. It is well documented that agricultural workers, their families and communities face poorer health outcomes than their urban counterparts, experiencing higher incidences of injury, illness and work-related fatalities than other industries. Further compounding this unhealthy 'life on the land' is an ageing workforce required to work harder and smarter for longer in a time of climate instability, increasing corporatisation, global food insecurity and ever tightening financial pressures. This unit addresses the underlying causes of injury and illness in agriculture and highlights the importance of healthy farming families and communities for the productivity and sustainability of the industry.

Why study this unit?

Without doubt, the most important aspect of a productive agricultural industry is a healthy workforce. During this unit you will learn about the poor health on the 'other side of the fence' and its impact on agribusiness, agricultural production and sustainability. You will increase your understanding of the social, environmental, physical and mental health factors that result in higher rates of injury, illness and death in rural and remote communities. This information will be beneficial to professionals looking to improve agricultural production and sustainability or to improve health provision, research, policy and literacy in rural and remote communities.

Career opportunities and professional accreditation

This unit opens possibilities in a variety of exciting career paths by providing students with a strong foundation in agricultural health, safety and wellbeing. It is accredited to offer continuing education and professional development points through a number of professional colleges and associations, including the Australian College of Rural and Remote Medicine, the Australian College of Nursing Australia, the Australian Association of Social Workers and the Australian Veterinary Association. HMF701 Agricultural Health and Medicine can be taken as an elective unit (worth 1 credit point) towards a postgraduate qualification at Deakin University and is a core unit of the Graduate Certificate of Agricultural Health and Medicine. The unit is also a requirement for recognition as a health provider by AgriSafe Australia.
Topics include
The five-day intensive curriculum will cover the following topics:
- agricultural medicine conditions and co-morbidities
- high risk remote populations and chronic disease
- agricultural respiratory health
- occupational health assessments
- vision and hearing injuries
- common cancers in agriculture
- traumatic agricultural injury
- remote emergency medicine
- addiction, suicide and mental illness in rural Australia
- pesticide and veterinary chemical hazards
- musculoskeletal health and ageing
- zoonotic diseases

A better understanding of these agricultural health, safety and wellbeing issues will help improve the health outcomes of farming men, women, children and agricultural workers.

What you will get out of it
At the end of this unit you will be able to:
- describe the clinical factors contributing to poor physical and mental health outcomes in the agricultural workforce
- comment on the social, economic and health service constraints experienced in farming communities and how these influence physical and mental health
- discuss the occupational health and safety risks associated with agricultural communities
- consider rural health, safety and wellbeing interventions including health promotion, primary care models and the Hamilton Charter for Farmer Health
- critically evaluate the agricultural health and medicine literature
- use online communication technologies to investigate and address agricultural and rural health problems
- develop skills to implement this new knowledge in your current or future professional life.

Prerequisites
This unit has no prerequisites. It is available to all postgraduate-level students or interested professionals from agricultural, education, policy or health backgrounds.

Unit fees
HMF701 Agricultural Health and Medicine is a full-fee unit offered through the School of Medicine at Deakin University. For more information on 2014 tuition fees, visit deakin.edu.au/future-students/fees.

Further information
Applications for this unit can be made through Deakin University's online application portal applicantportal.deakin.edu.au/connect/webconnect or via mail through the Unit Chair. If you would like further information about this unit or the application process, please visit www.farmerhealth.org.au or contact the Unit Chair.

Further information
Unit Chair: Clinical Associate Professor Susan Brumby
PO Box 283
Hamilton, Victoria, 3300
Phone 03 5551 8533 susan.brumby@wdhs.net

While the information provided here was correct at the time of publication, Deakin University reserves the right to alter, amend or define details of courses and unit offerings. Printed August 2012.
Supporting Attachment: 2
Table 1: Curricula topics covered in Agricultural Health and medicine in Australia and the United States.

<table>
<thead>
<tr>
<th>Topic / Content area</th>
<th>USA</th>
<th>AUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction and overview</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Addiction in farming populations</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Agricultural chemicals and toxicology</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Agricultural populations’ comorbidities</td>
<td>x</td>
<td>✔</td>
</tr>
<tr>
<td>Agricultural environmental health issues</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Agricultural respiratory illnesses</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Agricultural trauma</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>&quot;AgriSafe—clinical preventive occupational health care&quot;</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>At-risk populations</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Behavioural and mental-health issues in the farming community</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Biosecurity</td>
<td>x</td>
<td>✔</td>
</tr>
<tr>
<td>Cancer in the farm environment and agricultural setting</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>&quot;Rehabilitation among disabled farmers, family and workers&quot;</td>
<td>✔</td>
<td>x</td>
</tr>
<tr>
<td>Ergonomics in agriculture</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Farm dangers/injuries from physical agents (vibration, noise, heat/cold)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Farm children and youth at risk</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Health assessments for agricultural populations</td>
<td>x</td>
<td>✔</td>
</tr>
<tr>
<td>Hearing loss and eye injury</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Musculoskeletal injuries and occupational low-back pain</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Occupation and environmental concerns for veterinary pharmaceuticals and chemicals</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Personal protective equipment (including respirators)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Prevention of illness and injury in agricultural populations (including women, minorities, youth)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Remote emergency medicine</td>
<td>x</td>
<td>✔</td>
</tr>
<tr>
<td>Skin cancers of agricultural workers</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Skin diseases of agricultural workers</td>
<td>✔</td>
<td>x</td>
</tr>
<tr>
<td>Zoonotic diseases</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

*aFor information on AgriSafe, see http://www.agrisafe.org/*

Source: Brumby et al. (under review)
Supporting Attachment: 3
Unit presenter profiles and expertise (command of the field)

Ms Jan Austin BSc (Hons psych) MSc
Jan has 16 years’ experience in adult and older adult psychiatry and recently with clinical work in the child and adolescent mental health service. Jan’s background was in farming, where she was a wool classer and trained in sheep husbandry. In the ‘90s she pursued her passion for psychology, completing her undergraduate studies after which she began work for South West Healthcare (SWHC). While working in 2002 she completed her masters by research and is senior psychologist at SWHC. Jan has seen firsthand the range of mental health conditions in agricultural and rural communities. Also working in private practice, she is involved in supervising and training more than 40 psychologists.

Associate Professor Tim Baker MBBS (Hons) BMedSci (Hons) FACEM
Clinical Associate Professor Tim Baker is a fellow of the Australian College of Emergency Medicine and has considerable experience in the field of rural emergency medicine. Tim is Director of the new Centre for Rural Emergency Medicine (CREM), a joint initiative between the State Government, Alcoa Australia and the Deakin Medical School. CREM contributes to the co-ordination and delivery of effective emergency medical management throughout western Victoria and provides national leadership in emergency medicine research. He combines this research with work in the emergency departments of South West Healthcare in Warrnambool and Portland District Hospitals.

Dr Andrew Bradbeer MBBS FRACP
Dr Bradbeer is the principal physician at Manse Medical in Hamilton and is a specialist respiratory physician and accredited sleep physician. He graduated with an MBBS from Melbourne University in 1995 then completed specialty training in Melbourne at St Vincent’s Hospital and Monash Medical Centre and at the Royal Brompton Hospital in London. He was admitted as Fellow of the Royal Australasian College of Physicians in 2003. Since 2004 he has based his practice in Hamilton. He has a particular interest in improving accessibility to specialist services for people in rural areas and with his team has established centers for respiratory function testing and diagnostic sleep studies throughout the Wimmera, Western District, South East of South Australia and in Mildura.

Dr Rodger Brough MBBS FAccAM FACRRM
Rodger worked in general practice in Warrnambool for 12 years and as an addiction medicine physician at South West Healthcare for the past 26 years. Until December 2006 he had a co-located position in this role at the Western Regional Alcohol and Drug (WRAD) Centre in Warrnambool. Rodger is a consultant with Turning Point Drug and Alcohol Centre's Drug and Alcohol Clinical Advisory Service (DACAS), and a fellow of the Australian College of Rural and Remote Medicine (ACRRM) and Australasian Chapter of Addiction Medicine (AChAM).

Clinical Associate Prof Susan Brumby RN RM GDip Women's Stds MHM MACN PhD
Founding director of the National Centre for Farmer Health a partnership between Deakin University and Western District Health Service, Hamilton Australia. She leads the implementation of five key strategies to improve the health, wellbeing and safety of farm men and women blending both a theoretical and practical understanding of agriculture, health, management and rural communities. Sue is the PI of the award winning Sustainable Farm Families™ (SFF) project and CI on Australian Research Council, NHMRC, RIRDC and beyondblue grants. She has previously been awarded a Victorian Travelling Fellowship to the USA and the EU looking at farmer health and decision making.
Prof Daryl Pedler MBBS D (Obst) RCOG FRACGP FACRRM
Prof Daryl Pedler has been in medical practice for 40 years. Graduating in Adelaide in 1972, he has spent all but ten years of his medical career in rural practice. Initially, this was in a procedural general practice in the small township of Cummins on Lower Eyre Peninsula. Subsequently, after eight years in Adelaide where he was Medical Educator and then State Director of general practice training for South Australia and the Northern Territory, he moved to Warrnambool as their Emergency Department Director. In 2003 he took over as Director of Monash University’s Gippsland Regional Clinical School, returning to Warrnambool in 2012 as Professor of Rural General Practice for Deakin University. Daryl’s research interests focus on that population health and his research doctorate was on the impact of acute farm injury on rurally-based health services.

Dr Jacqueline Cotton BScAnSc PhD.
Jacquie joined NCFH in 2012 as Researcher and Lecturer in Rural Health. Graduating from La Trobe University in 2003, she continued to complete a Doctorate in Agriculture in 2009. Prior to joining the NCFH team, Jacquie worked as course developer and trainer at Rural Industries Skill Training in Hamilton, and on the teaching and research team at La Trobe University in the Department of Agricultural Sciences. Originally a Melbourne girl, Jacquie and her husband have worked with farmers in Hamilton for 6 years and plan to continue to call the area home. Jacquie has a passion for Agriculture, & education and has jumped at the chance to combine the two with farmer health at Deakin.

Mr Peter Tung MBBS FRACS
Peter Tung is a general surgeon with 14 years’ experience treating agricultural injuries and conditions through his tenure at Hamilton Base Hospital and Glenelg Surgical Clinic. He has a wide range of surgical experience, having worked as a general surgeon in Australia, New Zealand, United Kingdom, Pakistan and Hong Kong. Peter is currently a fellow of the Royal Australian College of Surgeons, College of Surgeons Hong Kong and Hong Kong Academy of Medicine (Surgery).

Ms Fran Patterson BAppSci (OT) GDipVET
Fran is currently employed Chief Occupational Therapist, Western District Health Service, and Hamilton, Victoria. She has also worked as an Occupational Therapist, a workplace ergonomics consultant, a case manager, workplace assessor and trainer, a lecturer and a project manager over a 30 year period in a variety of settings including: Occupational Therapist/Rehabilitation consultant, sessional lecturer with South West TAFE in Hamilton and adult day activity support service manager with Western District Health Service.

Mr Bill Hamill
Bill is passionate about rural Australia and ensuring that rural producers and their staff have affordable access to quality and up-to-date education and training. Bill is the CEO of Rural Industries Skill Training one of Australia’s leading rural training organisations, with its headquarters in Hamilton, Victoria. Prior to joining RIST, he held a number of senior management positions in national companies within the rural industry sector. Bill is a Victorian committee member of the Australian Council for Private Education and Training and has held a number of State and National Board positions in the rural health field.
Prof Scott Kitchener MBBS MClinEd MD DrPH FAFPHM (RACP) COL RAAMC
Scott completed the RACGP Family Medicine Training Program in 1992 and continued onto advanced training in Population Health to receive Fellowship in the Faculty of Public Health Medicine (RACP). He has practiced in rural Queensland, NSW and WA as well as in Timor and Bougainville. Scott and his family moved back to Toowoomba in 2006 where he worked for Queensland Health developing the role of Director of Rural Medicine on the Darling Downs in addition to part time medical education with QRME (then RRQC). He became full time with QRME in 2008 and since 2007 he has been in sessional rural practice at Clifton, an agricultural community on the Darling Downs. Prof. Kitchener is also the Clinical and Academic Lead in Rural Health at Griffith University.

Adrian Calvano RN
Adrian is experienced in the health sector and is currently working as a Health Professional at the National Centre for Farmer Health. Adrian’s main role is to deliver the Sustainable Farm Families Program nationwide. Adrian has completed postgraduate studies in Prostate Cancer Care (nursing), Agricultural Health & Medicine, and is a trained instructor in Mental Health First Aid. Adrian has also held positions as Community Health Nurse for Western District Health Service and Headspace Co-ordinator in Hamilton. Adrian enjoys working with farm families and the health agencies involved with the program.

Dr David Rendell BVSc MACVSc MBA
David has 30 years livestock veterinary practice experience. He has presented at forums throughout Australia, New Zealand and North America and developed and delivers sheep and cattle health Diploma of Agriculture courses for RIST, which cover zoonoses and safe veterinary chemical training. David has considerable experience in both the management and treatment of cattle and sheep and currently operates Livestock Logic, a livestock vet consultancy and parasitological laboratory in Hamilton. He is an honorary Senior Fellow of the University of Melbourne veterinary faculty, and is the Victorian animal welfare representative for the Australian Veterinary Association. David also serves on a number of animal welfare related committees. He has published numerous veterinary research papers including several papers on needlestick injury and their prevention.

Ms Carolyn Sheridan RN BSN
Carolyn played a key role in the development of agricultural health clinics in Iowa and is the Clinical Director of twenty-two AgriSafe clinics throughout the USA. Carolyn has worked in the past 20 years as a registered nurse and received specialized training in agricultural health through the University of Iowa. She is now an instructor for portions of the training course sponsored by I-CASH. Carolyn’s speaking engagements on a local, state, regional and national level have included informing others about the need and availability of specific agricultural health services, the development of similar programs in other states, and the need for sustainability of the agricultural specific health programs.
### HMF701: Agricultural Health and Medicine

<table>
<thead>
<tr>
<th>Unit Learning Outcome (ULO):</th>
<th>At the completion of this unit students can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULO1</td>
<td>Describe and identify the clinical factors contributing to poor physical and behavioural health outcomes in the agricultural workforce, nationally and internationally.</td>
</tr>
<tr>
<td>ULO2</td>
<td>Appraise the social, economical, and health service constraints experienced in farming communities.</td>
</tr>
<tr>
<td>ULO3</td>
<td>Identify and explain the occupational health and safety risks associated with farming and rural communities.</td>
</tr>
<tr>
<td>ULO4</td>
<td>Apply knowledge of rural health, safety and wellbeing and develop a response to a community issue.</td>
</tr>
<tr>
<td>ULO5</td>
<td>Critically evaluate the agricultural health and medicine literature.</td>
</tr>
<tr>
<td>ULO6</td>
<td>Use online communication technologies to investigate and address agricultural and rural health problems through effective teamwork.</td>
</tr>
</tbody>
</table>

### HMF702: Health and Sustainable Agricultural Communities

<table>
<thead>
<tr>
<th>ULO:</th>
<th>At the completion of this unit students can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULO1</td>
<td>recognise and describe the social determinants of health that contribute to poor physical and behavioural outcomes in the agricultural workforce nationally and globally.</td>
</tr>
<tr>
<td>ULO2</td>
<td>explain the environmental, economical and health service constraints experienced in farming communities and how these influence physical and mental health.</td>
</tr>
<tr>
<td>ULO3</td>
<td>discuss the role climate variability plays in the health and well-being of rural and remote communities.</td>
</tr>
<tr>
<td>ULO4</td>
<td>examine the underlying attributes of successful health policies, health promotion and community level interventions in agricultural settings.</td>
</tr>
<tr>
<td>ULO5</td>
<td>critically evaluate literature surrounding the role of lifestyle disease on rural morbidity and mortality.</td>
</tr>
<tr>
<td>ULO6</td>
<td>employ online communication technologies to investigate and address agricultural and rural health population problems.</td>
</tr>
</tbody>
</table>
### Supporting Attachment: 5

#### ATTACHMENT 5: Agricultural Health and Medicine Evaluation form – Presenter Dr. David Rendall HMF 701 Class 2012/2013 summary

<table>
<thead>
<tr>
<th>Topic/Presenter</th>
<th>Australian zoonoses 2013</th>
<th>Veterinary chemicals 2013</th>
<th>Daily Average (All presenters) 2013</th>
<th>Australian zoonoses 2012</th>
<th>Veterinary chemicals 2012</th>
<th>Daily Average (All presenters) 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>This session added to my current knowledge</td>
<td>6.67</td>
<td>6.85</td>
<td>6.73</td>
<td>6.59</td>
<td>5.94</td>
<td>6.94</td>
</tr>
<tr>
<td>The content in this session is applicable in my work or in real-life situations</td>
<td>6.48</td>
<td>6.55</td>
<td>6.60</td>
<td>6.10</td>
<td>5.10</td>
<td>6.10</td>
</tr>
<tr>
<td>I found the information was of an appropriate level</td>
<td>6.62</td>
<td>6.75</td>
<td>6.64</td>
<td>6.24</td>
<td>6.24</td>
<td>6.27</td>
</tr>
<tr>
<td>This session was conducted at an appropriate pace</td>
<td>6.33</td>
<td>6.30</td>
<td>6.52</td>
<td>5.94</td>
<td>6.18</td>
<td>6.20</td>
</tr>
<tr>
<td>The material was clearly presented</td>
<td>6.62</td>
<td>6.60</td>
<td>6.61</td>
<td>6.29</td>
<td>6.41</td>
<td>6.45</td>
</tr>
<tr>
<td>The presenter maintained my interest and participation</td>
<td>6.67</td>
<td>6.70</td>
<td>6.75</td>
<td>6.47</td>
<td>6.50</td>
<td>6.48</td>
</tr>
<tr>
<td>There was a good balance between information delivery, activities and discussion</td>
<td>6.62</td>
<td>6.66</td>
<td>6.58</td>
<td>6.20</td>
<td>6.35</td>
<td>6.33</td>
</tr>
<tr>
<td>Total Daily Average</td>
<td>6.56</td>
<td>6.62</td>
<td>6.63</td>
<td>6.20</td>
<td>6.41</td>
<td>6.30</td>
</tr>
</tbody>
</table>

#### Specific student comments:
- I found Scott and David very easy to listen to, very interesting talks
- All good - really enjoyed both presenters and their topics
- More time was needed for David and Scott - very interesting
- A lot of people had a lot of questions and information delivered needed clarifying at times

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#### 2014 Agricultural Health and Medicine evaluation - day 3

**Today’s Highlight**

The best thing about today was...

**Further comments**

**Great Day. Every topic very informative**

**Under the explanation on Acetylcholine**
Supporting Attachment: 6

Agricultural Health and Medicine.

Figure 1 Location of students who have completed HMF701 and HMF702 between 2010-2014.

- HMF701 ♦ - HMF702 Students from 7 states, 59 local government areas and from locations with an Accessibility/Remoteness Index of Australia (ARIA) as high as 11.0

Communication, promotion and support through www.farmerhealth.org.au
Since going live in April 2010 www.farmerhealth.org.au has delivered over 309,000 pageviews from over 82,000 unique visitors (worldwide) with 48,000 unique Australian visitors (see Figure 2).

Figure 2 Farmerhealth.org.au access areas throughout Australia.
Source Google Analytics Please note: There is difficulty in obtaining accurate locations regarding access by rural and remote users due to ISPs being located in major centres or cities.
PERSONAL DETAILS

Name: Susan Alison Brumby

Work Address: National Centre for Farmer Health
Western District Health Service
PO BOX 283
HAMILTON VICTORIA 3300

Phone: (61 3) 5551 8460
Email susan.brumby@wdhs.net

ACADEMIC QUALIFICATIONS

2006 - 2013 PhD Centre for Sustainable Regional Communities, Faculty of Law and Management, La Trobe University, Australia. Farm Work and Family Health: A Study on Farming Family Health across selected Agricultural Industries in Australia.

2012 Graduate Australian Institute of Company Directors, Company Directors Course.

1999 - 2004 Master of Health Management, University of New England, Australia

2003 & 2013 Certificate IV Workplace Training and Assessment, VQA

1996 – 1998 Australian Rural Leadership Program course 3

1994 -1996 Graduate Diploma of Women’s Studies, Deakin University, Geelong, Australia

1984 -1987 Diploma Farm Management, Victorian College Agriculture and Horticulture Glenormiston College, Australia


1977 -1980 General Nurse Training, Royal Melbourne Hospital, Victoria

SUMMARY OF PROFESSIONAL POSITIONS

2009 - Appointed as Clinical Associate Professor, School of Medicine, Deakin University Course Director, Agricultural Health and Medicine

2008 - Founding Director, National Centre for Farmer Health (www.farmerhealth.org.au)

2002 - 2009 Director Community Services and Executive Member Western District Health Service, Hamilton

1999 - 2002 Director of Primary Care and Nursing Services, Heywood Rural Health, Heywood

1996 - 2001 Opinion column writer, Rural Press, Stock and Land Newspaper

1989 - 2000 Principal partner and Manager, Bellwyn Pastoral Co, Coleraine a 1600 hectare beef and fine wool property – 1050 head of cattle, 6000 sheep

PUBLICATIONS 2009 - current


Kennedy, Alison, Mellor, David, McCabe, Marita, Ricciardelli, Lina, Brumby, Susan, Head, Alexandra and Mercer-Grant, Cate (2013) *Training and Experience of Nurses Responding to Alcohol Misuse in Rural Communities*, Public Health Nursing


Brumby, S (2009) ‘*Cardio, Climate, Coping and Crops: Connecting Conditions in Farming Communities*’, in Climate Change in Regional Australia, eds J. Martin, C.Winter & M.Rogers, VURRN Press, Ballarat


Curriculum Vitae: Dr Jacqueline Cotton BSc(AnSci)(Hon), PhD

Deakin University  
School of Medicine  
National Centre for Farmer Health  
Hamilton, Victoria, 3300  
Current position: Lecturer

Dr. Jacquie Cotton is lecturer and researcher in Rural Health within the Deakin University School of Medicine. Lecturer in units HMF701 Agricultural Health and Medicine and HMF702 Healthy and Sustainable Agricultural Communities. Trained in agricultural research, previous research work has focused on the diagnosis of gastrointestinal worms in sheep. She is currently CI in a study funded by Deakin University, conducting research on chemical exposure in farm men and women. She has a number of years’ experience in development of assessment and delivery of evidence based agricultural training as Program Development Coordinator with Rural Industries Skill Training (RIST). Jacquie has developed and delivered agricultural training to adult learners, both online, in the classroom and in the field. She is currently undertaking a Graduate Certificate in Higher Education.

Education:

- 2013 – current  
  Graduate Certificate of Higher Education
- 2005 – 2009  
  Doctor of Philosophy (Agriculture)
- Nov 2009  
  Certificate IV Training and Assessment (TAE)
- 2000 – 2004  
  Bachelor of Science (Animal Science) (Hon)

Publications and Abstracts


PERSONAL DETAILS

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ACADEMIC QUALIFICATIONS

2009 - present Bachelor of Internet Communications – Curtin University, Western Australia
1995 - 1999 Bachelor of Arts - Griffith University, Queensland

SUMMARY OF PROFESSIONAL POSITIONS

2013 - present Website Administrator - Western District Health Service
2011 - 2013 Electronic Document Developer, Business Support & Innovation, Western District Health Service
2010 - present Website Coordinator and Support, National Centre for Farmer Health
(www.farmerhealth.org.au)
2007 - present Principal owner and Developer, Mac Web Service - Website Development Business

Bianca Todd is Website Coordinator and IT support at the National Centre for Farmer Health. Bianca maintains www.farmerhealth.org.au to ensure retention of HONcode accreditation, also providing support to students of HMF701 Agricultural Health and Medicine, and HMF702 Healthy and Sustainable Agricultural Communities. In addition, she assists to maintain linkages with Deakin and Better Health Channel, as well as providing support to off campus staff – Dr. Susan Brumby and Dr. Jacquie Cotton.