



ANNUAL REPORT

2015

The TiARA (Tick-induced Allergies Research & Awareness) Committee was convened by Clinical Associate Professor Sheryl van Nunen and first met on 26th March 2013.

The TiARA Committee comprises

- **Professor Antony Basten AO (TB)**
- **Professor Nicholas Cowdery AM (NC)**
- **Emeritus Professor Derek Anderson AM (DA)**
- **Professor Emeritus Paul Canfield AM (PC)**
- **Associate Professor Kevin Broady (KB)**
- **Maria Said RN (MS)**
- **Dr Andrew Ratchford (AR)**
- **Stephen Doggett (SD)**
- **Edith Newton (EN)**
- **Dr Stephen Ginsborg (SG)**
- **Dr Raymond Mullins (RM)**
- **Clinical Associate Professor Sheryl van Nunen (SvN)**

TiARA was established in order

- ❖ **To promote awareness of tick-induced allergies by the public, health professionals, those in at-risk occupations, educators and government.**
- ❖ **To provide resources and support for sufferers of tick-induced allergies who live remote from expert medical and dietetic advisors.**
- ❖ **To promote research into the prevention & cure of tick-induced allergies.**
- ❖ **To disseminate established tick management strategies and help develop novel, proven tick management measures.**

Professor Nicholas Cowdery chaired the first TiARA Committee Meeting for 2015 on Tuesday 24th March and our second meeting on Tuesday 23rd June 2015. Professor Antony Basten chaired our meetings on Tuesday 25th August and Tuesday 24th November 2015, all held in Meeting Rooms 3J/3K in the Acute Services Building at Royal North Shore Hospital. Melanie Burk RN (MB) very kindly assists the Committee.

TiARA Committee Meetings March, June, August and November 2015.

TiARA Committee Meeting Tuesday 24th March 2015.

Attendees: TB, NC, PC, KB, SD, EN, SvN, MB and via telephone AR and RM.

Apologies: DA, MS, SG.

The meeting on Tuesday 24th March 2015 was chaired by Professor Nicholas Cowdery, The Minutes TiARA Committee meeting held on the 18th November 2014 were accepted pending their being sighted by the Committee members.

Professor Emeritus Paul Canfield AM was congratulated by NC and all of the TiARA Committee members both present and absent upon his being appointed a Member of the Order of Australia in the Australia Day Awards for 2015. TB read the citation for the award to the Committee:

“For significant service to veterinary science education, particularly in the field of morbid anatomy and clinical pathology, and to professional organisations.”

Geoff Cook was thanked (in absentia) by NC for his TiARA Committee contribution during 2013 and 2014. His insights into occupational exposures to ticks were always appreciated.

The Progress Report of Awareness Initiatives was tabled.

Media awareness:

- (i) Catalyst program 17th February 2015. NC, TiARA Ambassador Joy Cowdery, SD, AR and SvN.
A vote of thanks to Ambassador Joy Cowdery and NC, from the entire TiARA Committee, was moved for their generous contribution of time and effort in producing this program. Likewise the devotion of considerable time in its production by AR, SD and SvN was most appreciated. The TiARA Committee members were particularly grateful for SD’s skill in treating the tick which lodged in the Catalyst presenter’s scalp (Dr Jonica Newby). TiARA remains appreciative of the professionalism of the Catalyst team and the extended segment and tick removal segment featured on the Catalyst website. The response from the public was enthusiastic, considerable and thankful for both the educational aspects contained in the program and for the effect upon awareness of these conditions, especially from those who suffer MMA (alphagal). Many emails were received thereafter from both the general public and GPs, requesting education on tick-induced allergies, both mammalian meat anaphylaxis and tick anaphylaxis and its testing. TiARA PSG Subcommittee member, Janelle Williams, has been contacted by the US MMA Facebook page to upload education sessions. The program also aired internationally.
- (ii) December 2014 ABC Margaret Throsby: Midday: Mammalian meat and tick bites (originally broadcast in March 2014 and repeated in December 2014). For noting. x 2 broadcasts noted. Also broadcast in Canada and Germany.
- (iii) December 2014 Book Mentions: 2014 House of Karls. Dr Karl Kruszelnicki. Meat Allergy. Pan Macmillan Pty Limited, Australia 2014 [ISBN 978-1-743-51951-6](#).
- (iv) February 2015 ABC Richard Glover “Drive” program: Tick removal techniques.

- (v) March 2015 Sveriges Radio (Swedish Public Radio): Mammalian meat allergy following tick bites. Broadcasted in English.
- (vi) 'A Question of Balance' – KB gave an interview discussing MMA.
- (vii) 'Wild Women on Top' Coastal Trekking organisation: 'freeze it, don't squeeze it, dab it, don't grab it' article in their organisation's newsletter.

Public awareness:

- (i) February 2015 Quarantine Station Lecture Series: "Tick-induced allergies: mammalian meat anaphylaxis and tick anaphylaxis and their significance". "The history of tick-induced allergies: A proud story of Australian medical science". "Aspects of tick biology". "Allergic conditions caused by tick bite, including the burden tick-induced allergies place upon Emergency Departments in tick endemic areas." Presentations were forwarded for information to Committee members by email. SvN Invited to speak at this event by Paul Lancaster (President of The University of Sydney Medical Alumni organisation). SvN was grateful for the input of AR and SD who were unable to attend but who kindly allowed their material to be presented.
- (ii) TiARA PSG (Patient Support Group) Sub-committee Meeting at Mona Vale Hospital 17th February 2015. Report: AR, SD, SG, MB and SvN on behalf of DA. A vote of thanks to AR, MB and Janelle Williams (TiARA PSG) for their work for the meeting at Mona Vale Hospital was proposed by our Chair, NC. AR gave verbal report of evening. Written report tabled from DA. Survey results Powerpoint presentation given by MB. Discussion of a further PSG / public education meetings. Date (likely Spring 2015) and venue (likely Mona Vale Hospital) TBA.
- (iii) TiARA pamphlets #1 & #2 forwarded to Pittwater, Manly, Willoughby & Warringah Councils. SvN taking a further 1000 of pamphlets #1 and #2 to Ku-ring-gai council education evening later tonight.
- (iv) TiARA pamphlets #1 and #2 distributed to pharmacies by Pharmicare. 1000 TiARA pamphlets #1 and #2 given on 24.02.2015. It has been requested that Pharmicare keep a list of pharmacies which have received the pamphlets.
- (v) SvN to email Pharmicare re provision of refreshments for upcoming Colloquium Meeting on 30.04.2015. EN asked if pamphlet #2 will be available on newly designed TiARA website. SvN advised both pamphlets will be available on the refurbished website.

NC thanked the Rotary Clubs of Chatswood and Ku-ring-gai for funding the printing of 15,050 pamphlets and 10,000 pamphlets respectively. SvN has ordered the remaining pamphlets donated by Chatswood Rotary. SvN has paid the printer's account and will be re-imbursed from the Trust Fund.

Request noted from SD for education sessions to be held in the South of Sydney (Bundeena Area).

Medical profession awareness:

- (i) February 2015 Australian Doctor Therapy Update: Allergic Conditions caused by Tick Bites (SvN). Readership 25,000 GPs. Article published 03.02.2015- discussed by SvN. SVN also noted that the article was edited without permission of the author, resulting in major disappointment being registered by her when a visual aid showed the use of tweezers for removal. SvN to follow up in September 2015, by asking that our TiARA 'You tube' animation donated by Craig Baxter (animator of "Happy Feet") be placed by Australian Doctor on their website. This publication reaches every general practitioner by email, Australia wide. An profound apology was forthcoming from the Editor of Australian Doctor and an undertaking extended to help us with correcting the problem.
- (ii) Noted by NC: Local GP (Dr Chris McMahon) in Lane Cove wrote article for the 'Village Observer'. SvN has sent pamphlets #1 and #2. SvN to speak with Dr Ronnie Harding (NSW) re Professor Kerry Phelps Health column for September 2015 following TiARA "You Tube" video completion as well.

6. Website update www.tiara.org.au March 2015. Design make-over by Blake Williams, webmaster. In progress is

Update of Ambassadors section: posting of Richard B.'s "Travelling with MMA".

Update of Committee members' profiles. AR, SG updated, GC removed, PC posted, RM forwarded for posting.

Posting of the Audio version of the "Allergic Conditions caused by Tick Bites" presentation prepared by KB.

Update of Dietary Information (Mrs Lesley Clarke).

Chair (NC) thanked Mrs Lesley Clarke (Honorary TiARA Dietitian), in absentia, for her comprehensive contribution.

Further improvements in development: posting of information regarding mammalian meat product allergy and tick anaphylaxis and an Update of The Science Behind Tick-induced Allergies.

Website viewed and discussed. Very positive response from Committee members.

7. Control of Tick Populations by Treatment of Free Living Bandicoots: Update KB.

- UQ research proposal A/Professor Peter Murray School of Agriculture and Food Sciences ARC Linkage Grant discussed briefly only due to confidentiality agreement in place. KB stated funding constraints continue to hold up progress with this project.



8. Council education program progress report: SD, SvN.

Four lectures in 2014. Some councils now providing on line education for tick management for Council workers.

Preliminary meeting with Warringah Council (SvN) re their providing the same or a similar program together with Ku-ring-gai Council.

NC (Chair) noted with thanks that the fees paid by State Cover for the delivery and development of this Education Program to SD and SvN have been donated kindly to the TiARA Fund.

9. Progress report on labelling issues for MMA sufferers and link provision to alphagal private website based in the USA by A&AA. Geraldine (GB).

GB suggested that a 'question help sheet' for MMA sufferers to be designed and displayed on the TiARA website. TiARA patients will then have the necessary questions to ask food companies, producers etc when contacting them. GB, MS and MB to meet and discuss. Allergen Bureau to be contacted, <http://allergenbureau.net/>

10. Veterinary Awareness: PC. Catalyst link requested and forwarded to Lis Churchward.

PC discussed three points;

1. Provet and CDE are keen to continue to liaise with TiARA
2. PC distributed pamphlets to Glenorie Vets
3. Feedback is showing that vets are interested in giving clients education. Vets have expressed an interest in more education on MMA and tick anaphylaxis regarding the issue of appropriate tick removal practices.

11. Ku-ring-gai Rotary pamphlet and video production update: SvN.

- Video of tick removal technique for web placement as You Tube Video:
 - Craig Baxter "Happy Feet" animation completed.
 - Script finalised. Production will be commenced soon.

SvN noted that this has been held up due to the ill-health of Rob Hall from Ku-ring-gai Rotary. Some changes to animation have been suggested. Hoping to have completed by Aug/Sept 2015 for the next adult tick season.

12. Update on OEH experience: Edith Newton (EN).

EN: Tick Guidelines recently updated and reviewed. New Manager of Work, Health and Safety at the Office of Environment and Heritage (OEH). EN said that she will circulate current policies of OEH on tick management to TiARA at next meeting. A briefing to all OEH staff has been undertaken re tick management. Also stated they have a document re ticks on their website designed for OEH staff to review with their GPs if needed.

SvN showed 'Kathmandu' tick repellent clothing (representative brand of several). SD concerned that it is not officially authorised by the APVMA. SvN noted that there is no children's range available in SvN noted that there is no children's range available in permethrin treated clothing.

6/



permethrin treated clothing. EN stated that National Parks and Wildlife in OEH are still trying to obtain pre-treated uniforms for staff.

13. Australian Government Department of Health Tick Removal Advice Update.

NSW Ministry of Health meeting- no advice of their conclusions forwarded to date. At the meeting expressed views were

1. Recommendation of off label use of ether-freezing agents identified as a difficulty and
2. Request for more information. TB. AR will be publishing a review of the use of ether freezing agents in the Emergency setting shortly. Proposed invitation to Dr Sean Tobin to our next TiARA Committee meeting (SD). SvN discussed the 'policy failure' evident in the current Ministry of Health public information leaflet.

TB suggested that NC might write to MoH and suggested that Vicky Sheppard (State Medical Officer) be invited to a future TiARA meeting.

Progress with Research into Tick-induced Allergies:

Collection of data from AR at Mona Vale Hospital likely to be published soon.

SvN to prepare tick removal data for full publication as well (ASCIA poster 2014).

14. April 2015 Seminar invitation: SvN. Comparative Genomics Centre, College of Public Health, Medical and Veterinary Sciences, James Cook University, Townsville, Tick-induced Allergies: Mammalian meat anaphylaxis and tick anaphylaxis and their significance. SvN, KB, RM.

Desired outcome: Collaboration with Dr Andreas Lopata. SvN discussed prospects.

15. Colloquium on Tick-induced Allergies and the Role of Small Mammals. Thursday April 30th, 2015. SvN, KB, SD, AR, TB. All TiARA members are invited to the Colloquium.

SvN to contact Pharmicare re provision of refreshments.

16. Awareness initiatives planned: Pharmacy Guild involvement, Schools 2015 (one request to date). Ku-ring-gai Council this evening. Warringah Council. SvN.

Pharmacare interested in sponsoring the Pharmacy Guild Education session. SvN to approach the Pharmacy Society of Australia individually. Noted that one northern suburbs school had requested assistance with

'Tick' Management education program.

17. Other business. Recent donations to TiARA (MB)

\$2000 from Statecover to SD and SvN donated by them to TiARA, \$600 received from “Australian Doctor” for article by SvN donated by SvN to TiARA.

Our current financial position presented by MB.

7/



18. SvN suggested that an application to HREC be made to commence epidemiological ‘Telephone’ Survey.

Remaining Meeting dates for 2015 confirmed:

Tuesday 23 June 2015

Tuesday 25 August 2015

Tuesday 24 November 2015

Meeting Closed 6.00pm Next Meeting 23 June 2015

-o0o-

TiARA Committee Meeting Tuesday 23rd June 2015

Professor Nicholas Cowderly chaired the second meeting of the TiARA Committee for 2015. NC introduced our guest speaker for the meeting:

Ms Karen Jones, First Aid Co-ordinator, Northern Beaches Christian School, who addressed us on the topic of the

“Burden of Tick Bites and Tick-induced Allergies in Schools”

Discussion was then led by Karen exploring the difficulties faced in dealing with tick bites and children and staff with tick-induced allergies in a school in a highly tick endemic area.

Concern was expressed regarding parental approval of tick removal techniques. Karen asked TiARA to hold a parent /teacher education session at the school. Karen also sought information regarding management of tick bites in tick anaphylactic and mammalian meat anaphylactic children in her care.

NC thanked Karen Jones for her presentation and ensured her that TiARA would provide the support requested. A small token of TiARA’s appreciation was presented to Karen and a note of thanks followed.

Our business meeting commenced at 4.30pm.

NC noted the apologies for the meeting:

1. Apologies: MS, SG, KB
2. Attendees: TB, NC, DA, PC, EN, SD, SvN, MB

Telephone presence: RM and AR

3. Minutes from the TiARA Committee meeting 18th November 2014 and Minutes from the TiARA
8/



Committee Meeting 24th March 2015 tabled for approval.

Acceptance of Minutes from 18th November 2014 & 24th March 2015 moved by TB seconded by NC and SD.

4. Report on the 2015 Colloquium on Tick-induced Allergies and the Role of Small Mammals. TiARA (Tick-induced Allergies Research and Awareness), Royal North Shore Hospital and the School of Biological Sciences, The University of Sydney. (KB, AR, SD, TB).

This was a most successful and interesting full day meeting bringing together A/Professor Peter Banks' group from The University of Sydney and TiARA. The program was as follows:

Tick-induced allergies: mammalian meat allergies and tick anaphylaxis	Clin A/Prof Sheryl van Nunen (TiARA, RNSH, USyd)
Tick allergies and their burden upon the Emergency Services.	Dr Andrew Ratchford (TiARA, Mona Vale Hospital, USyd)
The science behind tick-induced allergies.	A/Prof Kevin Broady (TiARA, Retired UTS)
Tick biology relevant to Tick-induced Allergies	Stephen Doggett (TiARA, Westmead Hospital, USyd)
The landscape ecology of ticks	Henry Lydecker (USyd)
Creating tick-free mammals in Australia and overseas	A/Prof Kevin Broady and Stephen Doggett
Small mammal behavior and population dynamics in urban and peri-urban areas	A/Prof Peter Banks (USyd)

Theories underpinning host-tick population dynamics and review of science on most relevant hosts

Dr Catherine Price (USyd)

Round Table Discussion

- a) Identification of high priority knowledge gaps for future collaboration
- b) Set research goals
- c) Nominate funding opportunities
- d) Publication of meeting outcomes

Leaders: A/Prof Kevin Broady and A/Prof Peter Banks



SD suggested another colloquium date to be set to follow up results from UNSW backyard camera surveys.

NC moved to have a vote of thanks to 'Pharmacare' for their provision of catering for Colloquium meeting held 30.04.2015 at RNSH.

4. Website refurbishment www.tiara.org.au for tabling (SvN, MB).

Completion of

Updated Ambassadors section: posting of Richard B.'s "Travelling with MMA".

Updated Committee members profiles. AR, SG updated, GC removed, PC posted,

Dr Raymond Mullins (RM) posted.

Audio version of the "Allergic Conditions caused by Tick Bites" presentation prepared by

A/Professor Kevin Broady (KB) posted.

Updated Dietary Information.

Catalyst button, Garvan lecture button and "How to Remove a Tick" button placed on website.

Irrelevant You Tube videos following Catalyst program link to be removed.

SD suggested that we need to add title 'Tick Removal' to the opening top tabs of www.tiara.org.au

SD raised the need of having a contact on TiARA website for people to access. SvN currently working with Blake Williams to have info@tiara.org.au set up.

5. Progress report of Awareness initiatives

(i) Schools: Northern Beaches Christian School meeting (MB). As per discussion by Karen Jones

10/



(NBCS) MB to contact the people referred to us by Karen Jones for Catholic Schools First Aid training, Device Technologies (First Aid Manual development)

(ii) Pharmacy education: Pharmacy Guild Meeting organised for September 2015 (AR, SvN).

SvN, MB to liaise for promotion of information evening and potential development of flyer that pharmacists may distribute when giving tick education.

AR and SvN to present at information evening September 2015.

(iii) Media Awareness:

2015 ABC Sunshine & Cooloola Coasts: Mornings with Annie Gaffney: Mammalian meat allergy following tick bites. (SvN).

6. PSG update: Meeting at Mona Vale Hospital (MVH) planned in September/October to present summary of survey and Facebook survey results and to enlist help with Awareness via pamphlet distribution (DA, AR, MB, JW, SD, SG, SvN).

DA received endorsement from the TiARA Committee for another education evening at Mona Vale Hospital in September/October 2015.

Our 3 objectives are:

1. To present a summary of findings from the previous PSG meeting and survey results.
2. To present the FaceBook survey results to be gathered by Janelle Williams & MB.
3. To give an education and awareness session.

Approval given by Committee for second PSG information evening – Date TBA

SD asked re development of TiARA Facebook site. SvN & TB to meet with Professor Jonathan Morris (Director, Kolling Institute) at which meeting this will be discussed.

7. Tabling and discussion of OEH “Managing Tick Risks Procedures”, “Tick Briefing” and “Information for GPs” by EN.

8. RM suggested current data re tick removal practices be published in open access journal

e.g.

APAACI Journal.

RM confirmed that he has current Ethics approval to cover. Following this to approach NSW Ministry of Health re tick removal techniques and anaphylaxis.

11/



9. Discussion of availability of new adrenaline auto-injector available in 2016.
10. Description of the significance of the work being done by Daniel Christ's group at the Garvan Institute of Medical Research (TB, KB). This work is Scientific-in-Confidence.
11. Questionnaire (Janelle Williams) for target audience Alphagal Facebook group tabled and initiative described (SvN). Social media survey of experience of alphagal allergic individuals will be presented by MS at ASCIA (Australasian Society of Clinical Immunology and Allergy) Conference 2015.
12. Flagging for ticks: utility and limitations (SD).

SvN reported that some patients seen noticing presence of ticks on some bushes and not others. - Suggested development of flag kits for patients to use in own backyard areas affected.

SD discussed 'Doctors Flannel' to be his material of choice although can be more expensive.

SD & PC discussed looking at Vet's records of ticks to flag areas of higher tick population.

PC stated veterinary pharma company may offer this information.

PC to send SD available information.

DA suggested possibility of survey being completed at Kirinbiriki Tip (Northern Beaches).
13. Medicare Local involvement in Awareness this coming Spring (SG).

SG absent. SvN discussed further pamphlet supply to Medicare Local for distribution to GP's on Northern Beaches (MB to assist).
14. Permethrin-treated clothing initiative: Planned discussions with manufacturers and distributors
SD, SvN will examine this possibility.

SD discussed having permethrin clothing regulated through possibly the APVMA. No new information on efficacy of products currently available. SD concerned that these products are

not approved by an Australian authority.

15. Council Education Program SD, SvN completed.

Awaiting Wendy Ablott from State Cover to sign off after voiceover.

12/



Meeting closed 5.45 pm.

Our business meeting was followed by our Co-Chair of TiARA,

Professor Nicholas Cowdery delivering a presentation to the TiARA Committee members:

“Aspects of the Magna Carta upon its 800th Anniversary.”

For us to have NC address us on this topic, was a privilege and most informative and entertaining.

TiARA Committee Meeting Tuesday 25th August 2015

The TiARA Committee Meeting on Tuesday 25th August 2015 was chaired by Professor Tony Basten (TB).

TB welcomed Janelle Williams (TiARA PSG Sub-committee Member) who presented her survey ((DA, MB and MS) which was accepted as an abstract for the ASCIA 2015 Conference in Adelaide in September 2015 Adelaide and will be presented as a poster there by MS.

CLINICAL SPECTRUM OF MAMMALIAN MEAT PRODUCT/ALPHAGAL ALLERGY AFTER TICK BITES: A SOCIAL MEDIA SURVEY

Janelle Williams, Melanie Burk, Maria Said, Derek Anderson AM

Janelle presented a very insightful look into the difficulties faced by those that possess MMA /AA.

Facebook survey results were discussed with TiARA Committee input and a draft of the poster Reviewed by all..

Our business meeting commenced at 5pm.

1. Apologies (TB): MS, SG, AR, RM, PC.
2. Attendees: TB, NC, DA, KB, SD, EN, SvN, MB.
3. Previous Minutes (dated: 23.06.2015) accepted by SD & seconded by NC.
4. Vote of Thanks to Professor Nicholas Cowdery for his erudite and fascinating presentation on the Magna Carta after our last meeting which was very much appreciated by all in attendance (TB).

5. Acknowledgement and thanks from the committee to the Williams Family for their ongoing contribution to the TiARA website and funding of 'Clinical Spectrum of MMA / AA' poster for the upcoming ASCIA conference.
6. Request to add new standing item to future agenda: 'Research items' SD.
7. SvN: Possibility of volunteer (Michele) being able to help with data collection of GP contact 13/ details to distribute with a personalised approach the TiARA pamphlets and education.



8. Chief Medical Officer's Progress report on Lyme Disease and an Australian Guideline on Overseas Acquired Lyme Disease borreliosis. SD noted overall results showed no Australian tick types were positive for Borrelia. 'Clinical significance still to be determined.' Deep sequencing method discussed by Committee members. AR has collected in excess of 200 ticks from humans.
9. SD discussed: new 'Moz Repel/ (DEET free) product that will be new to the market. No Australian Research available for this product. ARC Linkage Funding Grant by Bayer.
10. Report on the visit by TB and SvN to Professor Jonathan Morris (JM), Director of the Kolling Institute (SvN).
Following matters discussed:
 1. TiARA progress to date: PSG, ongoing Pharmacy education, GP education.
 2. TiARA's position within the Kolling: Membership of TiARA, SvN & AR & MB of Kolling Foundation.
 3. Review of TiARA website – Prof Jonathan Morris shown website. Agreed to Kolling Institute being listed on TiARA pamphlets. He will provide criteria for this to SvN.
 4. Also agreed that the TiARA website can be migrated into the RNS/Northern Sydney Health websites.
 5. TiARA's future: Prof Jonathan Morris stated that anyone who is a staff member of the Area Health Service is eligible to be a backup person for SvN's position within TiARA, i.e. act as convenor (AR).
 6. TiARA Donations: Online 'Donation' link not working from 24.08.2015, concern of missed potential donations discussed. JM agreed to fix this issue.
11. Progress report of Awareness initiatives (SvN)

- (i) ASCIA poster 2015 by TiARA PSG.

A draft copy of this poster was distributed to the committee members and useful feedback given. DA further reviewed the contents before publication in the Internal medicine Journal as an abstract and as a poster presented by MS at the 2015 ASCIA meeting.

- (ii) Schools: Presentation to Schools First Aid Training providers arranged for 14 November 2015.

SvN to provide education session with HealthCorp (covers Training Education for Catholic schools within the Sydney area).

Information evening to be held at Northern Beaches Christian School (surrounding schools and Kindergartens will also be invited) date to be confirmed.

- (iii) Pharmacy education: Pharmacy Guild Meeting organised for 2 September 2015 (AR, SvN and SD has kindly allowed presentation of his presentation on Tick Biology as well) as he will be unable to attend due to his absence overseas.

14/



8. Chief Medical Officer's Progress report on Lyme Disease and an Australian Guideline on Overseas Acquired Lyme Disease borreliosis. SD noted overall results showed no Australian tick types were positive for Borrelia. 'Clinical significance still to be determined.' Deep sequencing method discussed by Committee members. AR has collected in excess of 200 ticks from humans.

9. SD discussed: new 'Moz Repel/ (DEET free) product that will be new to the market. No Australian Research available for this product. ARC Linkage Funding Grant by Bayer.

- (iv) Council Education Program report (SD, SvN) completed. Still awaiting voiceover completion.
- (v) SvN will make contact with Rob Hall to follow up for completion of You Tube video (Rob Hall has been unable to proceed due to personal circumstances).
- (vi) Medicare Local involvement in Awareness this coming Spring (MBB).

MBB has contacted Sandra Collins (Medicare Local acting CEO) and provided digital copies of TiARA pamphlets. Offer of hard cover pamphlets given as well.

1. Submission for awards for WHS initiatives from Office of Environment and Heritage: Edith Newton (EN).
WHS Management launched a submission to the Treasury Management Funds. To be announced and attended by NSW Gov Agencies in Nov 2015. Entered into the Innovation Category. EN will provide TiARA with the 1 minute video submitted.
2. Medicare Local involvement in Awareness this coming Spring (SG).
See 5 (v)
3. TiARA PSG: Next meeting agreed in principle, AR to return from leave in September to finalise date (SvN).

Date to be confirmed: likely to be in late September/ early October? Early November.

General Business arising:

Re approach PSG re Parliament House Event

SvN to complete 2015 Annual Report

TiARA submission (2016) to Science Community Category for Eureka Prizes to be discussed at next meeting.

Meeting closed at 6.10pm.

TiARA Committee Meeting Tuesday 24th November 2015

Professor Tony Basten chaired the TiARA Committee Meeting on Tuesday 24th November 2015.

1. Apologies: MS, EN, AR.

2. Welcome to Geraldine Batty representing Allergy and Anaphylaxis Australia (GB). (TB).
3. Attendees TB, NC, DA, PC, SD, SG, KB, GB, MB, SvN.
4. The Minutes of the TiARA Committee meeting on Tuesday 25th August 2015 were accepted.

15/



Proposed TB, Seconded SD, NC.

5. CLINICAL SPECTRUM OF MAMMALIAN MEAT PRODUCT/ALPHAGAL ALLERGY AFTER TICK BITES: A SOCIAL MEDIA SURVEY

Janelle Williams, Melanie Burk, Maria Said, Derek Anderson AM

ASCIA 2015 poster September 2015 Adelaide. Presented there by Maria Said.

MS reports via GB considerable interest shown at ASCIA in the survey results.

Will be displayed at the End of Year function this evening: Melanie Burk (MB).

Displayed. Importance of this survey and its presentation noted by the TiARA Committee.

6. Report on the PSG Education evening and meeting held at Mona Vale Hospital on Tuesday 17th November 2015: and upcoming PSG endeavours DA.

DA reported another successful TiARA PSG Education Session held at MVH. Preponderance of female attendees reduced significantly at the latest meeting, with several men coming along and telling of their problems with tick-induced allergies. AR and SvN presented the educational segments. Janelle Williams' (with MB, MS and DA) survey was on display at the meeting as well. Plans to make these education sessions annually in March and September if possible with AR, SD and SvN presenting segments. Donations of \$102.30 were received on the night (MB)- a slight increase on the session earlier In 2015 (\$ 88.40). Total for the year \$190.70. Survey of tick removal practices in attendees and tick bites will be collated (along with the results from the session earlier in 2015).

Meeting with Minister Anthony Roberts (Leader of the House, NSW Parliament, Member for Lane Cove and Minister for Industry, Resources and Energy) and TiARA supporter from inception, being organised for late 2015. DA to ask the Minister to host a TiARA reception at NSW

Parliament House to enhance our educational efforts to the public, the media and various stakeholders- educational, occupational and recreational) (Minister Roberts offered to do so in 2013).

The support from NC and TiARA Ambassador Joy Cowdery and Janelle Williams on the evening was noted with thanks.



The support from NC and TiARA Ambassador Joy Cowdery and Janelle Williams on the evening was noted with thanks.

7. Likely inclusion of alphagal in future vaccines and other medicines. A/Prof Kevin Broady (KB).

KB tabled a review of vaccines in development, noting the role of alphagal in improving the antigenicity of vaccine proteins in vaccines in development. The implications for our patients with tick-induced allergies (both MMA and TA) was discussed.

8. Eureka Prize 2016: Discussion of approach (DA, TB, SD, PC and all committee members)

Australian Museum Eureka Prizes are awarded annually in 4 categories:

1. Research and Innovation
2. Leadership in Science
3. Science Communication and Journalism
4. School Science

Suggested category would be “Leadership in Science” or “Science Communication and Journalism”.

A subcommittee has been formed (DA, AB, PC, SD) and are to meet in early 2016 to prepare for the May entry date. AB to email proposed dates to meet to the Subcommittee. Entries open 5.2.16 and close 7pm AEST 6 May 2016.

9. Parliamentary inquiry mooted into “Lyme Disease” in Australia Stephen Doggett (SD).

SD discussed Senate Hearing findings (discovery of new pathogens, some GP practices, testing and treatments controversial, 180,000 people in Australia with ‘Lyme-like disease’).

SD also emailed a report of same following the meeting to TiARA Committee members.

SD commented upon tick risk, prevention and removal on ABC 702 Simon Marne 21.11.15.

10. Progress report of Awareness initiatives A/Prof Sheryl van Nunen (SvN).

- (i) Schools: Presentation to First Aid Training providers Device Technologies SvN 14.11.15.

17/ Education to schools to continue in 2016 – SvN, MB



Education to schools to continue in 2016 – SvN, MB

- (ii) Pharmacy education: Pharmacy Guild Meeting 2.9.15 (AR or SvN if AR unavailable). SD

kindly allowed presentation of his Tick Biology slides due to his being overseas). C

Completed. Plans for Pharmacy Education session to be held in Qld in 2016.

- (iii) Council Education Program report (SD, SvN) completed. Voiceover completion expected this week.

- (iv) GP education progress helped by Michele Gleeson our RNSH volunteer (MB).

To date 23 GP practices (=240 individual GP's) contacted from Palm Beach – Manly – Chatswood. This remains ongoing.

MB to send Excel spread sheet to SG (completed 01.12.2015).

Northern Sydney Medicare Local now known as Sydney North Health Network. SG will liaise with them re ongoing supply of TiARA pamphlets and education.

- (v) 2016 awareness objectives are further pharmacy education in NSW and QLD, further schools education and politician awareness in each affected electorate in Australia.

SvN & MB to update TiARA on progress at first TiARA Committee meeting in 2016.

SG offered to approach his Local Member and educate him regarding tick-induced allergies.

11. Research progress:

: Data from 125 tick anaphylaxis sufferers now being analysed (SvN).

: Andy Ratchford (AR) is analysing outcomes of tick removal in ED (Emergency Department) with a MPH candidate Dr Ben Harris).

: Alphagal progress: Daniel Christ, Garvan Institute for Medical Research (TB, KB).

12. TMF Awards: Our best wishes to the Dept of Environment and Heritage for the TMF awards this week (TB). It's commendable to be nominated.

Proposed dates for 2016 TiARA Committee meetings (TB).

Tuesday 22.3.16, Tuesday 21.6.16, Tuesday 23.8.16, Tuesday 15.11.16.

Meeting closed at 4.55pm and the TiARA End of Year function followed from 5-6pm.

18/



Addendum: Meeting room booked for 2016 meetings dates and times as above – MB 01.12.2015

TiARA Annual End of Year Function 2015 and Presentation of Certificates of Appreciation

Presentation of Certificates of Appreciation by TB.

Highlights of TiARA 2015 Annual Report presented by NC.

Presentation of Certificates of Appreciation Professor Antony Basten AO Co-Chair TiARA

Certificates of Appreciation TiARA End of Year Function 2015: Recipients

Ray and Jenni Rampton

For their sustained commitment to supply of TiARA pamphlets to health care facilities

Joy Cowdery

For her excellent and sustained representation of TiARA in the media in 2015 and for her TiARA PSG membership

The Williams Family

For continuing to fund the hosting of the TiARA website www.tiara.org.au

Blake Williams

For his sustained contribution as Webmaster of the TiARA website and particularly for his re-design of the TiARA website in 2015

Janelle Williams

For her social media survey of alphagal allergy sufferers, for funding the infographic poster presented at the ASCIA meeting 2015, for her PSG membership and for representing TiARA in the media in 2015

Craig Baxter

For his brilliant animation of tick removal

Kathy Kai

For her sustained contribution to TiARA in organising Ku-Ring-Gai Council Information evening

19/



Chatswood Rotary Club: Antony Basten (2014- 2015 President)

For their generous support of the printing and distribution of TiARA pamphlet “Preventing and Managing Tick Bites”

Australian Doctor (A/Prof Amanda McBride)

For their support of education of our GPs Australia-wide in tick-induced allergies

Pharmacare (Rebecca Sharp and Grant Black)

For supporting the education of pharmacists in tick-induced allergies and the Colloquium

Petr Rokusek and Yolanda Khalil

For their financial management of the TiARA Trust Fund, especially in securing the donations

Michele Gleeson

For helping with TiARA’s education of GPs as a RNSH volunteer

Elizabeth Hand-O’Brien

For her distribution of TiARA pamphlets to Tresillian and SLSC groups

Alphapharm : Giulia Marzo

For their continued support of TiARA pamphlet production and distribution

In absentia:

Ku-ring-gai Rotary Club: Rob Hall (TiARA Project Manager), Tony McClelland (President), Greg Newling (TiARA Project Finance Co-ordinator)

For their generous support of the development, printing and distribution of TiARA pamphlet “Preventing and Managing Tick Bites”

Wendy Ablott (StateCover Mutual Limited WHS Specialist)

For their support and for educating council workers and ratepayers about tick-induced allergies

Louise Hudson (Safety Management Co-ordinator, Willoughby Council)

For her sustained efforts in supplying TiARA education pamphlets to the public

Bronwen Jewell (WHS Co-ordinator, Pittwater Council)

For her sustained efforts in supplying TiARA education pamphlets to the public

20/



Centre for Veterinary Education, University of Sydney: Elisabeth Churchward

For supporting the dissemination of TiARA's material on tick allergies to practising veterinarians by posting the Catalyst program details and including the information in the Christmas review edition

Paul Lancaster The University of Sydney Medical Alumni Association

For organising the Quarantine Station lectures on tick-induced allergies

Tanya Holloway

For her sustained communications work for TiARA

Dr Richard Boyle

For his contribution to the TiARA website regarding travelling with MMP/alphagal allergy

Dr Leonard Banks Chatswood Radiology

For organising an educational evening in tick-induced allergies for GPs

Manly Council (Mayor Jean Hay, Chris Parsons, Media Officer)

For their assistance in publicising the TiARA PSG evenings to the public

Northern Beaches Christian School: Karen Jones and Lisa Knight

For organising an educational evening on tick-induced allergies for parents

MEDIA

Catalyst Jonica Newby, Dominique Pile, cameramen, sound recordist.

Mornings with Annie Gaffney

Drive Richard Glover (presenter) and Emma Crowe (producer)

Illawarra Mercury

ABC Sunshine and Cooloola Coasts Jon Coghill

-o0o-



TiARA Benefactors and Supporters

We would like to thank all of those very generous individuals, families and organisations who have contributed to TiARA's progress in 2015.

It would not have been possible to achieve any of our goals this year without your help and we look forward to your continued support in the years to come.

TiARA Committee Members

TiARA Committee members contribute considerable time to achieving the goals of TiARA, and do so in an honorary capacity. We are all grateful for the pleasant company and unparalleled expertise of our TiARA Committee members. The remarkable achievements this year attest to the hard work of every member. Our meetings result in a renewed sense of purpose and the composition of the Committee allows for a high degree of synergism in our efforts.

We would also like to thank Melanie Burk, Clinical Research Nurse in the Department of Clinical Immunology and Allergy at Royal North Shore Hospital for her facilitation of our Committee Meetings.

24 November 2015

Tony Basten

Professor Antony Basten AO

Nicholas Cowdery

Professor Nicholas Cowdery AM

