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STATE OF HAWAII
DEPARTMENT OF HEALTH
DEVELOPMENTAL DISABILITIES DIVISION
OUTCOMES AND COMPLIANCE BRANCH
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Pearl City, HI 96782

In reply, please refer to:

File:

NEUROTRAUMA ADVISORY BOARD (NTAB)
MEETING MINUTES
June 26, 2015

Present: Lyna Burian, Ian Mattoch, Rita Manriquez, Scott Sagum, Stella Wong, Valerie Yamada

Excused: Angie Enoka, Milton Takara

Others: Theresse Argoud, Injury Prevention and Control Section (IPCS); Dylan Arrieta, Pacific Basin Rehabilitation Research and Training Center (PBRRTC); Nicholas Hines (IPCS); Violet Horvath, (PBRRTC); Matthew Koenig, M.D. Queen's Medical Center Neuroscience; Nathan Murata, University of Hawaii Kinesiology and Rehabilitation Science; Tina Robertson, Queen's Medical Center Neuroscience; Bridget Velasco, (IPCS)

DOH Staff: Curtis Inouye. Wendie Lino

- I. **Call to Order** – meeting called to order at 1:40 p.m. Quorum present.
- II. **Approval of Minutes from the April 24, 2015 meeting** – Board Member Scott Sagum made a motion to accept the minutes as written. Board Member Ian Mattoch seconded that motion. All Board Members present voted in favor of minutes being accepted as written. No questions.
- III. **Review of Agenda** – agenda reviewed. No changes.

IV. New Business

- A. University of Hawaii Concussion Awareness Management Program Contract – Nathan Murata, Professor and Chair of the Kinesiology and Rehabilitation Science Department at University of Hawaii at Manoa provided an update on the Hawaii Concussion Awareness Management Program (HCAMP). The Neurotrauma Supports and Dr. Murata are in the process of completing a proposed one year contract extension of the HCAMP program to continue with the baseline testing of high school athletes and to address the sustainability of HCAMP and baseline testing for high school athletes for future years. Per Dr. Murata, HCAMP will continue with the education and awareness of concussions with community youth sports organizations as well as community events during the extended contract year. Per Dr. Murata, the HCAMP website will continue to provide education and awareness on sports concussions through University of Hawaii's Kinesiology and Rehabilitation Science Department. Dr. Murata also mentioned that he will be convening a working group per Senate Concurrent Resolution 75, to develop and implementation strategy to require youth sports organizations to initiate and implement concussion management plans.
- B. Neurotrauma Advisory Board Membership – Per Section 321H-3, Hawaii Revised Statutes, the eleven member Neurotrauma Advisory Board must consist of one member representing a trauma center that provide services for neurotrauma survivors. That position will be filled by Doris Warner, who was selected to serve as Director of Queen's Medical Center's Trauma and Outreach program. She was recommended by Sally Jones, Director of Queen's Medical Center Trauma Department who retired in May, 2015. Neurotrauma Supports is continuing its search for a spinal cord injury survivor or family member and a member representing a private sector business that provides services to individuals with a neurotrauma injury.

The NTAB will continue discussions on a chairperson for the NTAB. Identified Board Member will be recommended to the Department for consideration and appointment as Chair of the Neurotrauma Advisory Board.

V. Old Business

- A. Hawaii Concussion Awareness and Management Program Update – see attached report.
- B. Pacific Basin Rehabilitation Research and Training Center – Hawaii Neurotrauma Registry Update. See attached report.

- C. Hawaii Islands Regional Stroke Network Update – see attached report.
- D. Neighbor Island Activities – Board Member Scott Sagum reported that nearly sixty percent of the surf schools on Kauai have gone through the Surfer’s Myelopathy class his team provides. Their next objective is to provide this education on surfer’s myelopathy to the lifeguards on Kauai’s beaches. Great job and keep up the good work.
- E. DOH Update – due to a reorganization, the Neurotrauma Supports program will be moving to another branch under the Developmental Disabilities Division, Community Resources Branch. Ms. Wendie Lino will be the supervisor of Neurotrauma effective 7/1/15. Neurotrauma staff will eventually be relocated from Pearl City to Kaimuki. Curtis Inouye will remain with Neurotrauma.

VI. Announcements

A. Brain Injury Association of Hawaii

1) *Support Group Meetings*

- a. 1st Saturdays, 1-3 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #1
 - b. 2nd and 3rd Wednesdays, 6 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #1
- 2) *ESPN Sports Festival* – Department of Health Neurotrauma Supports in partnership with the Rehabilitation Hospital of the Pacific (RHOP) will be participating in the ESPN Sports Festival. The event will be held at the Neal Blaisdell Center on June 27, 2015 from 9:00 a.m. to 4:00 p.m. RHOP and Neurotrauma staff will be educating the public on head injury prevention and will also be providing bike helmet fitting and give away.
- 3) *Dr. Cifu* – noted researcher on TBI will be on Oahu will be presenting on “Treatment of TBI”.

Date: 7/12/15

Time: 1:30 p.m. – 4:00 p.m.

Location: UH John A. Burns School of Medicine, Auditorium

Meeting Adjourned at 2:45 p.m.

Hawaiian Islands Regional Stroke Network Update

(Funded by a grant from the Hawaii State Dept. of Health Neurotrauma Fund)

Hub site: The Queen's Medical Center

Current spoke sites:

Current active sites are Molokai General Hospital (activated on 11/8/2011), Wahiawa General Hospital (activated on 6/21/2012), Hilo Medical Center (activated on 8/1/13), The Queen's Medical Center West Oahu (activated on 1/12/15) and Kona Community Hospital (activated on 5/27/15). The five spoke site hospitals – ED MDs and nurses, hospitalists, and administration - have been educated on stroke care paths and protocols and in-serviced on use of the technology.

Installation of Hawaii Stroke Network has been completed at Maui Memorial Medical Center and credentialing of the telestroke MDs is in progress.

Credentialing of the telestroke MDs has been completed. North Hawaii Community and installation of equipment is pending.

Total Calls	136		
Incomplete Calls	32	Triage calls, not telestroke	8
		Technical difficulties	24
Completed Calls	103	Molokai General Hospital	14
		Wahiawa General Hospital	37
		Hilo Medical Center	27
		The Queen's Medical Center West Oahu	26
# IV tPA Administrations	49	# Transferred to QMC Punchbowl	36
		# Not transferred-remained at site or transferred to another institution	14
Total Transfers to QMC Punchbowl	46	Non tPA Transfers	10

IV tPA Administration Summary

tPA #	Spoke Site	Encounter Duration (min)	Transfer to QMC Punchbowl?	Initial NIHSS	Last NIHSS	DC Disposition
1	MGH	60	YES	6	1	Home
2	WGH	45	YES	9	2	Home
3	WGH	UTD	YES	16	16	Hospice
4	WGH	60	YES	5	0	Home
5	WGH	45	YES	14	0	Home
6	WGH	35	YES	13	13	SNF
7	WGH	40	YES	6	2	Home
8	WGH	60	YES	5	0	Home

9	WGH	50	YES	8	ND	RHOP
10	WGH	30	YES	3	3	Home
11	WGH	40	YES	11	13	RHOP
12	HMC	40	NO	13	UTD	UTD
13	MGH	35	YES	11	6	RHOP
14	WGH	35	YES	15	3	RHOP
15	MGH	15	YES	7	0	Home
16	HMC	45	NO	6	4	Kaiser Acute
17	HMC	45	NO	7	UTD	SNF
18	WGH	40	NO	16	3	UTD
19	HMC	50	NO	17	UTD	Home
20	HMC	35	NO	21	21	UTD
21	MGH	40	YES	10	4	RHOP
22	HMC	30	NO	5	1	VA home
23	MGH	UTD	YES	9	10	RHOP
24	HMC	35	NO	ND	7	Home
25	WGH	30	YES	7	0	Home
26	MGH	UTD	YES	6	6	Home
27	QMC-W	35	YES	32	24	Foster Home
28	QMC-W	120	YES	4	1	HOME
29	QMC-W	40	NO	16	UNK	DC to Kaiser Acute
30	MGH	80	YES	20	29	Expired
31	HMC	30	NO	14	8	Home
32	QMC-W	90	YES	17	5	Home
33	WGH	90	YES	10	26	Expired
34	QMC-W	50	YES	6	9	RHOP
35	QMC-W	45	YES	6	0	HOME
36	HMC	35	NO	ND		Expired
37	QMC-W	90	YES	24	24	Expired
38	WGH	45	YES	31	27	Hospice
39	QMC-W	40	YES	9	0	HOME
40	HMC	50	NO	6		HOME
41	MGH	45	YES	5	1	HOME
42	QMC-W	40	YES	16	6?	RHOP
43	QMC-W	50	YES	10	7	HOME-MRS 0
44	QMC-W	60	NO	11	11	DC to Kaiser Acute
45	WGH	45	YES	11	2	HOME-MRS 0
46	QMC-W	50	YES	14	20	SNF rehab
47	HMC	50	NO	11		
48	QMC-W	40	YES	13	4	HOME
49	WGH	90	YES	26	1	HOME
50	QMC-W	90	YES	16	5	Remains hospitalized
51	QMC-W	50	YES	15	11	Remains hospitalized

- 10 patient did not receive t-PA but transferred to QMC for further treatment such as endovascular reperfusion, closer monitoring and further evaluation.

- 44 patients remained at spoke site since they were not tPA candidates and did not require a higher level of care. These patients were diagnosed with either mild stroke, completed stroke, complex migraine, old stroke, ICH, fatal stroke or with transient symptoms.
- 11 patients at HMC who received t-PA remained at site, 2 patient from QMC West transferred to Kaiser and 1 patient from Wahiawa General remained at site due to lack of available bed.
- Telemedicine encounters require 35- 60 minutes of direct critical care time

Community Education

- QMC West O’ahu Community Health Fair- May 17, 2014, educated 1000 people on stroke signs and symptoms and telestroke network.
- Public health campaign 'Spot a Stroke' was a joint effort between DOH, QMC, and AHA that placed stroke education signs on every Oahu bus from May-September of this year. This campaign resulted in an estimated 14 million impressions on Oahu bus riders and was paid from our Neurotrauma Fund grant and the placement fee was donated by Ad Walls.
- Dr Koenig filmed a promo with the Pacific Basin Telehealth Resource Center regarding the telestroke project. To view the video: <http://vimeo.com/102377242>
- 15 Craigsid e Place – July 22, 2013, educated 100 seniors on “Stroke: What you should know.”
- Waipio Senior Fair – June 21, 2013, Hawaii Okinawan Center, partnered with Wahiawa General Hospital and Genentech to conduct stroke risk assessments with 240 people and educate on stroke signs and symptoms and telestroke network.
- QMC – May 29, 2013, educated 150 medical center staff and guests on the stroke chain of survival (i.e. stroke risk factors, stroke signs and symptoms, acute stroke treatment and the telestroke network).
- Hawaii Dental Services – May 16, 2013, educated 40 worksite staff on “Heart Disease and Stroke: What women should know.”
- QMC – April 24, 2013, educated 15 volunteers on “Stroke: What you should know.”
- Moanalua Middle School Health and Safety Fair – February 15, 2013, educated over 75 middle schoolers on signs and symptoms of stroke.

- Wahiawa Community Health Fair – October 27, 2012, educated over 300 in the Wahiawa community about stroke and signs and symptoms and introduced them to Hawaiian Islands Regional Stroke Network Camera System.
- Article in Star-Advertiser on 10/18/12.



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**Hawai'i Neurotrauma Registry Project (HNTR) Report
For Neurotrauma Advisory Board (NTAB)**

June 26, 2015 for May 2015

1:30 p.m.—4:00 p.m.

Highlights:

1. Contract for Year 3 has been fully executed; new end date is March 20, 2016
2. Total of 110 unique participants in the Registry as of May 31, 2015
3. Next HNTR Advisory Board meeting is Friday, June 26. The main topic is revising the survey so it can be used as a two-year follow up
4. New brochure designed to introduce HNTR to parents of children with neurotrauma injuries
5. Continue to work on details of proposed prevocational training for persons with mild traumatic brain injury – what the training will include, collaborations with other organizations
6. Positive feedback from evaluations of our presentation at the 39th Annual Brain Injury Rehabilitation Conference in Williamsburg, VA in April 2015
7. Presentation at 2015 Pacific Rim International Conference on Disability and Diversity was well received (May 2015)
8. Lecture by traumatic brain injury expert Dr. David Cifu on Sunday, July 12, 2015, at John A. Burns School of Medicine, 1:30 – 3:30 p.m., Medical Education Building 315, free and open to the public
9. Social media and marketing update

Hawai'i Neurotrauma Registry Update

Table 1: Dashboard Report through May 31, 2015

Item	Total through March 2015	April 2015	May 2015	Grand Total
Registry Participation				
Number of unique participants in HNTR Registry	99	8	3	110
Public Education				
Public events attended by HNTR staff and volunteers	51	3	5	59
Number of individuals who visited HNTR tables at public events	7334	280	828	8442
Number of HNTR brochures distributed	6595	280	828	7703
Number of HNTR business cards distributed (incl. trivia cards)	2214	4	20	2238
Neurotrauma educational materials distributed (incl. CDC info)	6749	280	828	7857
Number of volunteers assisting with public events (duplicated count)	88	4	5	97
Networking with Professionals				
Presentations about HNTR to professionals	18	5	1	24
Number of professionals who attended HNTR presentations	236	189	15	440
Networking contacts made with partners / collaborators	190	4	5	199
Events / presentations in conjunction with partners / collaborators	12	6	1	19
Media				
Print articles	7	0	0	7
Print ads	11	3	0	14
HNTR newsletters (quarterly, effective October 29, 2014)	2	0	0	2
Distribution (Number of subscribers)	350	13	59	422
Radio PSAs/Interviews	1160	202	0	1362
TV PSAs (to be determined)				
TV programs, appearances, or ads (duplicated count/broadcast)	10	0	0	10
Social media following (Facebook effective July 16, 2014)	14	8	5	27
Facebook Posts	45	2	6	53
Facebook Friends/Following	12	8	2	22
Twitter Posts (effective October 31, 2014)	6	4	3	13
Twitter Following (effective October 31, 2014)	2	0	1	3
YouTube Hits (effective February 23, 2015)	14	15	17	46
Information and Referral				
Number of information / referral contacts with individuals	233	20	19	272
Number of information / referrals provided to individuals Range: 1 – 5 pieces of information / referrals per contact	400	25	32	457

Average: 1.72 pieces of information / referrals per contact				
Volunteers/Trainings				
Number of volunteer trainings held	14	0	1	15
Number of persons attending trainings (duplicated count includes HNTR volunteers and others)	71	0	1	72
Number of new volunteers recruited to help with HNTR	13	0	1	14

Goal 1: Develop and administer a voluntary NT Registry

Three new persons were added to the Registry in May 2015, for a total of 110 unique individuals. There are 97 complete surveys and 13 that are incomplete. There are more women (n=66) than men (n=44) in the survey. The vast majority (n=95) reside on Oahu, but there are now also 11 in the Registry from Hawaii, 3 from Maui, and 1 from Kauai. Most participants list TBI or some other form of brain injury as their first or second neurotrauma injury. The next most reported injury is, specifically, ischemic stroke (26), followed by hemorrhagic stroke (15), and spinal cord injury (14).

Regarding how participants obtained information about the registry, six heard about it from a table at a public event, six from a newspaper or newsletter, and 19 from presentations. (In terms of presentations, the Pacific Head Injury Support Group, Rehabilitation Hospital of the Pacific, and BIA-Hi were specifically named.) Four heard it on the radio, one from family or friends, three from an article in Generations magazine, and one from the Island Scene article. One person heard about it from a physician/hospital/clinic.

Develop an Advisory Board of Stakeholders

The next meeting is scheduled for Friday, June 26, from 10 a.m. to 12 noon at the PBRRTC office. The meeting will begin with a brief presentation on preliminary statistics and be followed by suggestions on how to change the survey for the two-year follow-up.

Conduct Research on Best Practices and Information Contained in Voluntary Database for Individuals with Neurotrauma Injuries

The presentation at the 2015 PACRIM conference was well-received. The next step is to write a manuscript with the information collected from the states and territories and recommendations based on that information. We received positive feedback from the presentation at the Williamsburg TBI conference.

Develop Project Materials for Recruitment

- HNTR Brochures and inserts directed towards parents and children will soon be sent to IRB for approval.
- The Project Director finalized an introductory letter directed to veterans for distribution by service professionals with the HNTR brochure.

Provide Community Outreach

Completed:

- May 2, 2015, SPIN Conference at UH Mānoa Campus Center
 - Dispersed 175 packets of information; added 17 organizations to resource listing; obtained 46 newsletter sign ups
- May 13, 2015, Children’s Mental Health Resource Fair at Windward Mall (National Children’s Mental Health Month)
 - Scheduled “Intro to HNTR” presentation for Lanakila Meals on Wheels Group Dining members in Hau‘ula; discussed doing presentations for DOE but was not encouraged to pursue further
- May 16—17, 2015, New Baby Expo at NBC Exhibition Hall
 - Dispersed 569 packets (double last year’s)
- May 23, 2015, Hui Malama Po‘o card-making activity at Shriners Hospital for Children
 - Unfortunately, none of the outpatients were residents of Hawai‘i
- May 30, 2015, Trinity Missionary Baptist Church Health Fair
 - Appreciation to Mary Wilson of BIA—HI for invitation to participate; gained four new resources for persons with NT injuries
- At the request of Dr. Sloan, HNTR brochures and an introductory letter for veterans were sent to QTC Medical Group at Kuakini Medical Center.

Current Month and Future:

- June 1, 2015, “Intro to HNTR” presentation to Japanese Club at Lanakila Multipurpose Senior Center (approximately 30 members)
- June 6, 2015, Pride Parade at Kapi‘olani Park
- June 19, 2015, Hawai‘i United Okinawa Association Health Fair at Okinawan Cultural Center, Waipahu
- June 28, 2015, ESPN Sports Festival at NBC Exhibition Hall
- July 8, 2015, “Intro to HNTR” presentation to Lanakila Group Dining Seniors at Hau‘ula Civic Center
- July 28, 2015, FHB Maui PrimeTime Wellness Fair
- *August 8, 2015, American Heart Association Heart Walk
- *August 15, 2015, KHON Elderhood Project, Aging in Place Workshops
- August 31, 2015, Stroke Presentation to Japanese Club at Lanakila Multipurpose Senior Center (75 members total)
- *September 2015, FHB Kauai PrimeTime Wellness Fair
- *September 25—27, 2015, Seniors Fair/The Good Life Expo at NBC Exhibition Hall
- *September 27, 2015, Honolulu Century Ride
- *October 4, 2015, Children & Youth Day at State Capitol
- *October 10—11, 2015, Oh Baby! Family Expo at NBC Exhibition Hall
- October 12, 2015, TBI Presentation to Japanese Club at Lanakila Multipurpose Senior Center
- *October 16, 2015, Hawaii island (Kailua-Kona) FHB PrimeTime Wellness Fair

- November 2, 2015, SCI Presentation to Japanese Club at Lanakila Multipurpose Senior Center

***Asterisk indicates events with pending applications.**

Develop a Volunteer Program

- **Trainings**
HNTR conducted a “How to Promote HNTR” training via email successfully, demonstrating another viable method of training delivery for one or two individuals needing the training.
- **Involve Volunteers in Community Outreach, Recruitment, and Intake**
During May 2015, five volunteers and six natural supports or advocates participated in informing others in the community about the registry and neurotrauma injuries.

Provide and Document Information and Referral

During May 2015, 12 individuals contacted the Project Coordinator; 40 items of information or referral were provided.

Goal 2: Develop and disseminate an effective PSA and social media campaign

Weekly HNTR print ads were published in Ka Leo newsletter, starting April 13, 2015. The last Ka Leo print ad will be published May 4, 2015. The print ads for Ka Leo were geared to students using social media as a means to get in touch with HNTR, e.g., #WhatIsNeurotrauma. Unfortunately, we HNTR received no phone calls and no hashtag gamers from the Ka Leo print flight.

Other social media advertising efforts were considered. HNTR wanted to place an ad on Facebook and boost our page for \$5 a day for one week. The terms and conditions were sent to RCUH for review. However, during the review, RCUH requested we find out whether Facebook would sign an addendum and send an original copy in the mail. The Project Assistant was unable to reach a live person at Facebook and there was no information on how to get in touch with the legal department in the self-help online community section. Per Fiscal Department, HNTR cannot proceed with advertising on Facebook.

- Facebook Page: The Project Assistant added future events to the calendar.
- Twitter Page: The project Assistant posted upcoming HNTR events. So far, there are no responses to the hashtag game #WhatIsNeurotrauma.
- Email Marketing: The next newsletter will be published once the PBRRTC’s name change has been officially approved.
- Print Ads:
Future:

- i. OHA Newsletter publication dates are pending purchase order approval with tentative date of July 1, 2015.
 - ii. Lānaʻi Today quotes are pending.
 - iii. Bus placards are pending available funds.
- The HNTR Guerilla Flyer will be redesigned in the near future.
- Radio: ʻŌhāna Broadcasting Company pending approval of Modification 3; radio spots to begin July 20 and end August 16, 2015.

Concussion Report for School Year 2014 - 2015

Report Summary from 8/1/14 to 5/31/15	Total	BIIF	KIF	MIL	ILH	OIA
67 Schools						
Number of Baselines	7449		1222	330	625	3058
Number of Concussions	966		82	48	86	235

1. 8/16/14, Waianae Health Fair
2. 8/20/14, Palama Settlement football
3. 10/26/14, HPH Kids Fest, Bishop Museum
4. 1/24/15, Neuro Huddle at UH
5. 2/28/15, Big Boys Football
6. 4/23/15, Kapolei High School Free Concussion Clinic
7. 6/6/15, Play Sports Hawaii
8. 6/6/15, Pop Warner
9. 7/23/15, McKinley High School Free concussion clinic

SPORTS	Number of Baseline	Number of Concussion			
	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date	
Baseball (M)	464	28	3	31	
Baseball (F)	37	4	0	4	
Basketball (M)	653	43	0	43	
Basketball (F)	494	53	0	53	
Boating Related (M)	25	0	0	0	
Boating Related (F)	32	3	0	3	
Cheerleading (M)	19	0	0	0	
Cheerleading (F)	249	48	0	48	
Football (M)	1182	316	13	329	
Football (F)	15	3	0	3	
Golf (M)	7	0	0	0	
Golf (F)	7	2	0	2	
Lacrosse (M)	0	0	0	0	
Lacrosse (F)	0	2	0	2	
Marital Arts (M)	151	42	7	49	
Marital Arts (F)	102	37	2	39	
Soccer (M)	704	52	1	53	
Soccer (F)	730	78	0	78	
Softball	373	49	5	54	
Swimming (M)	12	1	0	1	
Swimming (F)	42	3	0	3	
Tennis (M)	39	0	0	0	
Tennis (F)	60	0	0	0	
Track & Field (M)	49	3	0	3	
Track & Field (F)	34	16	0	16	
Volleyball (M)	204	11	0	11	
Volleyball (F)	821	50	0	50	
Water Polo (M)	93	1	0	1	
Water Polo (F)	56	6	0	6	
Wrestling (M)	346	55	1	56	
Wrestling (F)	162	17	0	17	
X-Country (M)	55	0	0	0	
X-Country (F)	34	2	0	2	
Others (M)	87	3	0	3	
Others (F)	111	5	0	5	
Total	7449	933	32	965	

BIIF	Number of Baselines	Number of Concussion		
School	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date
Hilo High School	83	19	0	19
Honokaa High School	67	6	0	6
Kamehameha Schools-Hawaii	299	8	0	8
Kau High School	35	3	0	3
Kea'au High School	187	9	0	9
Kealahou High School	342	16	0	16
Kohala High School	1	0	0	0
Konawaena High School	162	8	1	9
Pahoa High School	1	0	0	0
Waialeale High School	45	12	0	12
Total (10 Schools)	1222	81	1	82

KIF	Number of Baselines	Number of Concussion		
School	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date
Kapaa High School	117	16	1	17
Kauai High School	100	6	1	7
Waimea High School	113	22	2	24
Total (3 Schools)	330	44	4	48

MIL	Number of Baselines	Number of Concussion		
School	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date
Baldwin High School	160	9	0	9
Hana High School	17	2	0	2
King Kekaulike High School	144	13	0	13
Lahainaluna High School	104	13	1	14
Lanai High School		0	0	0
Maui High School	200	45	3	48
Molokai High School		0	0	0
Total (10 Schools)	625	82	4	86

ILH	Number of Baselines	Number of Concussion		
School	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date
ASSETS School	32	12	0	12
Christian Academy	16	1	0	1
Damien High School	285	22	0	22
Hanalei School	50	6	0	6
Hawaii Baptist Academy	148	23	0	23
Honolulu Waldorf School	7	0	0	0
Iolani High School	452	22	2	24
Island Pacific Academy	51	0	0	0
Kamehameha schools-Oahu	154	19	0	19
La Pietra Hawaii School	53	0	0	0
Lanakia High School	4	0	0	0
Le Jardin Academy	98	2	0	2
Lutheran High School	27	1	0	1
Mid-Pacific Institute	432	40	2	42
Pacific Buddhist Academy	19	0	0	0
Sacred Heart Academy	70	11	0	11
St. Andrews Priori	65	2	0	2
St. Francis	45	2	0	2
St. Louis School	81	54	1	55
University Lab High	120	13	0	13
Total (21 Schools)	2209	230	5	235

OIA	Number of Baselines	Number of Concussion		
School	8/1/14 to 5/31/15	8/1/14 to 4/30/15	5/1/15 to 5/31/15	Total to date
Aiea High School	105	13	1	14
Anuenue School	45	11	2	13
Campbell High School	134	41	1	42
Castle High School	137	30	0	30
Farrington High School	196	12	0	12
Kahuku High School	0	23	2	25
Kailua High School	168	20	1	21
Kaimuki High School	113	13	1	14
Kaiser High School	121	8	0	8
Kalaheo High School	150	32	1	33
Kalani High School	186	25	2	27
Kapolei High School	226	17	2	19
Lelihua High School	141	35	1	36
McKinley High School	160	13	2	15
Milliani High School	293	28	0	28
Moanalua High School	123	47	0	47
Nanakuli High School	36	2	0	2
Pearl City High School	222	38	2	40
Radford High School	202	34	2	36
Roosevelt High School	71	11	0	11
Waialua High School	147	12	0	12
Waianae High School	24	10	0	10
Waipahu High School	58	18	2	20
Total (23 Schools)	3058	493	22	515

