



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

NEUROTRAUMA ADVISORY BOARD (NTAB)

MEETING MINUTES

December 12, 2013

Present: Lyna Burian, Angie Enoka, Elzy Kaina, Ian Mattoch, Alan Parker, Scott Sagum, Karen Seth, Milton Takara, Stella Wong

Excused: Joyce Arizumi, Sally Jones

Others: Violet Horvath, Pacific Basin Rehabilitation Research and Training Center, (PBRRTC); Rita Manriquez, STBIAB Member; Nathan Murata, University of Hawaii Manoa; Ross Oshiro, Department of Education (DOE); Valerie Yamada, Hawaii Neurotrauma Registry (HNTR), Hui Malama Po'o

DOH Staff: Aaron Arakaki, Curtis Inouye, Michele Tong

- I. **Call to Order** – Board Member Stella Wong called the meeting to order. Quorum present.
- II. **Approval of Minutes from October 25, 2013** – Board Member Lyna Burian made a motion to approve minutes as written. Motion was second by Board Member Angie Enoka. All Board Members were in favor, motion carried to approve Minutes as written.
- III. **Review of Agenda** – Ms. Wong reviewed the Board's agenda. No changes made to the agenda, approved as submitted.
- IV. **New Business**
 - A. Legislative Updates for 2014

The following bills will be introduced at the 2014 Legislative Session in January, 2014:

HB2418 which requires moped operators of all ages to wear a helmet and requires mopeds to be insured for personal injury protection.

SB3009 which increases the minimum age to eighteen years to drive a moped. It also requires a moped driver of any age to wear a safety helmet securely fastened with a chin strap.

SB2726 SD1 which allows all-terrain vehicles (ATV) and utility-terrain vehicles to be driven on any street if the ATV or the utility-terrain vehicle is being used as a farm equipment, if the operator holds a current category (3) license of a commercial driver's license and if the operator and passengers wear safety helmets secured with a chin strap.

SB2071 which requires helmet use for individuals under the age of twenty-one who are operating or riding motorcycles, motor scooters, mopeds, and all-terrain vehicles. Requires persons engaging in the business of renting motorcycles, motor scooters, mopeds, and all-terrain vehicles to furnish a safety helmet to renters under the age of twenty-one who will drive or ride on these vehicles.

HB124 prohibits anyone under ____years of age from operating a skateboard in a public skateboard park unless the person is wearing a properly fitted and fastened helmet that meets specified standards. Establishes a fine for violations. Requires the respective state agency or county to post signs at public skateboard parks to bring the requirements to the attention of park users.

HB1105 requires application for moped, motorcycle, and motor scooter licenses to include information on planned safety helmet usage. Creates penalties for those electing to use helmets but failing to do so. Applies county vehicle taxes under chapter 249, Hawaii Revised Statutes, to mopeds, motorcycles, and motor scooters.

SB1227 SD1 requires certain insurance contracts and plans to provide coverage beginning 1/1/2014 for treatment of brain injuries, including cognitive and neurocognitive therapy, neurobehavioral and neuropsychological testing or treatment, and necessary post-acute years from the date the injury occurred and up to a lifetime cap per person of \$300,000.

SB2531 SD1 establishes a falls prevention and early detection coordinator within the Department of Health's Emergency Medical Services and Injury Prevention System Branch.

SB2854 SD1 with companion HB2304 HD1 revises the total number of members of the Neurotrauma Advisory Board from 21 to at least 11 members while still maintaining representation of nearly all existing parties.

B. Educational Initiatives

Board Members were informed by DOH staff that funds from the Neurotrauma Special Fund will be set aside for planning purposes for an educational initiative.

Board members will decide whether a sub-committee be formed to address planning concerns at a future Board Meeting.

V. **Old Business**

A. Concussion Management Program Update

Ross Oshiro from the Department of Education provided a summary of baselines and concussions reported by high schools throughout the State of Hawaii from 8/1/13 through 11/30/13. There were a total of 5869 baselines completed during this period. A total of 708 concussions were reported for this period. Football continues to be the sport reporting the highest amount of concussions with 359, followed by girls cheerleading with 67, girls soccer with 51, girls volleyball with 45, and girls basketball with 44 reported concussions. For additional information on number of baselines and concussions completed at high schools statewide. See Ross' report which is attached.

Nathan Murata, PhD. and Ross Oshiro, MS, ATC, CSCS submitted the Year 3 Annual Report on Concussion Management Program for Interscholastic Student/Athletes in Hawaii High Schools to the Department. Nathan provided a summary of the report to Board Members. Nathan reviewed the data on the baseline of the Immediate Post-concussion Assessment and Cognitive Testing (ImPACT) testing for Hawaii high school student/athletes, the number of concussions reported across this cycle, results on specific research goals and outcomes, and concussion awareness and education to community and youth organizations. This Year 3 Annual Report addresses two distinct sections: Hawaii high school student/athlete data using ImPACT baseline testing and return to play protocol, and data from the community and youth organizations on the education and awareness of concussions. Anyone interested in receiving a copy of the annual report can contact the Neurotrauma Supports at 453-6151 or e-mail at ntrauma@doh.hawaii.gov. Nathan also reported on the presentations done on education and awareness on concussions during this same reporting period. In August, 2013, Nathan completed presentations at the Keiki Day at Kahala Mall and with the Island Football League at the Wahiawa District Park. In September, 2013, presentations were done at the Big Boys Football at Kuhio park Terrace and with the Department of Parks and Recreation at the Waimanalo district Park. In October, 2013, presentations were done on Hawaii Island at the Hilo Pop Warner association, Children and Youth Day at the State Capitol, and at the Hawaii Pacific Health Kid's Fest at the Bishop Museum. Upcoming presentations will resume in January, 2014.

B. Hawaiian Islands Regional Stroke Network Update– Queen's Medical Center

Karen Seth reported that the three spoke sites: Molokai General Hospital, Wahiawa General Hospital and Hilo Medical Center are now active. ED M.D.'s and nurses, hospitalists, and administration at these sites have been educated on stroke care paths and protocols and in-serviced on use of the technology. There

were a total of 28 Telestroke calls completed from the three spoke sites combined. 18 of the 28 patients were transferred to Queen's Medical Center (QMC). 15 of the 18 patients that were transferred to QMC received tPA at their spoke site and 14 subsequently were transferred to QMC. 3 patients did not receive tPA but were transferred to QMC for closer monitoring and evaluation. One patient was transferred to QMC but had a final diagnosis of seizure. Contracting is being executed to bring Kona Community Hospital and QMC-West Oahu as the next two spoke hospital sites. A copy of Ms. Seth's report is attached to the meeting minutes.

C. Pacific Basin Rehabilitation Research and Training Center –Hawaii Neurotrauma Registry (HNTR) Contract Update

Violet Horvath, Project Director provided an update on the HNTR. Violet mentioned that there are a total of 28 participants currently in the HNTR. HNTR staff continues to research candidates for the HNTR Advisory board. Board Members will meet once a quarter. The Staff at HNTR continues to discuss the minimum number of Members required and their terms of service. HNTR staff is continuing with volunteer training and conducted a training session on "What is Confidentiality" in November, 2013. Regarding volunteer involvement in community outreach and recruitment, HNTR staff and volunteers participated in the Kids Fest sponsored by Hawaii Pacific Health. This allowed HNTR to add Kapiolani Medical Center as a source for referrals. In December, 2013, 3 volunteers raised awareness of neurotrauma injuries and promoted the HNTR at the Project Grad Windward Holiday Fair at Castle High School. Violet mentioned that the third edition of the HNTR newsletter will be distributed in December, 2013. The marketing plan continues to be developed. A new Neurotrauma Registry Assistant has been hired and will begin working on December 23, 2013. Refer to Violet's report which is attached to the minutes for further details.

D. Neighbor Island Update

Kauai-

Board Member Scott Sagum reported that his program, "Surf Safe Kauai" continues to educate the surf schools on Kauai on Surfer's Myelopathy. Providing the education along with Scott are an Emergency Room Physician and the Chief of the Physical Therapy Department from the Kauai Veterans Memorial Hospital. Scott mentioned that with the amount of tourists visiting the Island and their interest in surfing, it is important to educate these tourists on Surfer's Myelopathy to prevent any injuries.

Hawaii Island-

Board Member Alan Parker mentioned that The Center for Independent Living is no longer in business at the Hilo Aging and Disability Resource Center. Alan will keep Board Members updated as information becomes available regarding their status.

E. NT Special Fund Balance

Aaron Arakaki, DOH staff reported on the Neurotrauma Special Fund Deposits for Fiscal Years 2007 through 2013. The Neurotrauma Special Fund deposits have remained relatively stable at over \$800,000.00 for the past five fiscal years. See attachment for fund deposits for fiscal years 2007 through 2013.

VI. Announcements

- A. BIA-HI: Board Member Ian Mattoch informed the Neurotrauma Board members and others present that the Brain Injury Resource Center has secured a location on North Vineyard Blvd. in the Aloha United Way Building. Plans are to have the Resource Center in operation in January, 2014. Plans are to have the resource Center open four days a week initially from 9:00 a.m. to 1:00 p.m. More information will be provided at the next NTAB meeting.

Board Member Lyna Burian mentioned that there will be no BIA-HI support group and educational meetings for the month of December, 2013. The next meetings will resume in January, 2014 but a location and time have not been determined. Calls can be made to the BIA-HI office for more information regarding the support group and educational meetings.

VII. Next Meeting

Date: February 27, 2014
Time: 1:30-4:00 pm
Place: Kalanimoku & Neighbor Island VCCs

Adjourned: 3:00 p.m.

Recorded by Curtis Inouye



**Hawai'i Neurotrauma Registry
Update to Neurotrauma Advisory Board
December 12, 2013**

1. Goal I: Develop and administer a voluntary NT Registry.

The Hawai'i Neurotrauma Registry will assist the Department of Health in prioritizing activities to support the needs of neurotrauma survivors. The Hawai'i Neurotrauma Registry Project, hereafter referred to as "the project," complements the Hawai'i Department of Health, Healthy Hawai'i Initiative in areas of research, public and professional education, and evaluation. The Hawai'i Neurotrauma Registry shall include individuals who have sustained traumatic brain injury, stroke, or spinal cord injury.

Three (3) more participants completed online intake surveys in November. Please refer to Table 1 below.

**Table 1: Hawaii Neurotrauma Registry – Monthly Update of Participants
Last Update: 12-11-13**

<i>Month & Year</i>	<i>Paper Copy only</i>	<i>Online Only</i>	<i>Both Paper Copy and Online</i>	<i>Total Number of Unique Participants</i>
June – September 2013	6	14	5	25
October 2013	6	14 (4 incomplete)	5	25
November 2013	6	17 (4 incomplete)	5	28

a. Advisory Board of Stakeholders

Staff continues to research appropriate candidates. Staff has determined that Hawai'i Neurotrauma Registry Advisory Board (HNTRAB) members will meet once a quarter or four (4) times annually. Staff continues to discuss a minimum number of members and term of service.

Status remains the same as the previous update, October 25, 2013.

b. Develop a Comprehensive Implementation Plan for Statewide Recruitment

To date, the project has recruited 28 participants for the registry. Please refer to Table 1 above.

Staff continues community outreach for recruitment. Please refer to **c. ii.** Below.

c. Development a Volunteer Program

The service agreement with a vendor to provide background checks is no longer viable. The project can obtain FBI and State Criminal History background checks but cannot obtain Adult Protective Services or Child Abuse and Neglect checks. As a result, volunteer recruitment is on hold. PBRRTC is conferring with DOH Developmental Disabilities Division as to how to proceed.

i. Develop Volunteer Training

The project had a pilot training for “What is Confidentiality?” on November 9, 2013. Eight volunteers attended.

A pre-check is given at the start of the training to see how participants understand confidentiality before and after the training. An identical post-check is given at the end of the training to determine whether participants were able to master the training content.

The results demonstrate that all felt that they were comfortable in indentifying information deemed confidential and were able to respond appropriately to maintain confidentiality. However, half could not identify when confidentiality did not apply while involved in the project: When a volunteer indicated intention to

1. Hurt himself or herself
2. Hurt someone else
3. Participate in criminal activity

Staff will revise this portion of the training to provide clarify.

ii. Volunteer Involvement in Community Outreach and Recruitment

Please refer to the Hawai'i Neurotrauma Registry Recruitment Grid attached to the end of this update on pages 6—7 for additional details.

The following efforts in community outreach and recruitment involved volunteers:

- On October 27, 2013, staff and four (4) volunteers participated in KIDS FEST, an annual interactive health event at the Bishop Museum. Hawai'i Pacific Health sponsored the event. Kapi'olani Medical Center for Women and Children included the project in its trauma tent. The project was able to add Kapi'olani Medical Center as a source of referrals.

The project had direct contact with 632 individuals, including parents, children, and other family members. Staff and volunteers used memory building games based on Dr. Thomas Harding's recommendation but

adjusted the games using cards and die to be appropriate for pre-teens. Staff and volunteers dispersed all materials prepared for the event:

- 250 brochures
- 50 fliers
- 50 referral sheets

Two (2) individuals signed up for follow up: One was emailed the link to the online survey and the other was mailed a hardcopy of the intake as requested.

- On December 8, 2013, three (3) volunteers raised awareness of neurotrauma injuries and promoted the registry during Project Grad: Windward Holiday Fair at Castle High School. Attendance was very sparse due to multiple competing events and poor weather. Attendees stayed in the air conditioned cafeteria and stayed away from Hui Malama Po’o’ s outdoor table which they shared with the project.

Staff and volunteers spoke with twelve (12) persons and dispersed three (3) brochures and awareness bracelets.

a. Provide and Document Information and Referral

Staff continues to maintain documentation of contacts to the project and information and referral for these contacts. Table 2 below shows the contacts to the project from the previous update. Table 2 includes the date of the contact, name of individual or organization, and the result of the contact.

Table 2: Contacts to Project/Information and Referral, October 25, 2013—December 12, 2013

Date	Contact	Result of Contact
12/04/13	Individual w/ Mild TBI through pedestrian incident	Referred to HDRC, Dr. Robert Sloan, DVR, Lyna Burian
11/26/13	DHS staff, Adult Protective Services	Met at Falls Consortium presentation on 11/26/13. Referred to AILH. Provided w/ Intro to HNTR PPT, referral forms, fliers, brochures. Dispersed to her network
11/21/13	Organizer for Project Grad Windward Holiday Fair	Provided <i>Life Goes On</i> DVDs (STRIDE and Ho’oikaika 1)
11/21/13	Maui Brain Injury Support Group Facilitator	Provided with referral forms and procedure for participating in HNTR
11/20/13	Organizer for Project Grad Windward Holiday Fair	Son has 2 TBIs. Referred to Pacific Neuroscience information, Dr. Robert Sloan and Dr. Thomas Harding, CDC website for TBI info; <i>League of</i>

		<i>Denial</i> Frontline program
11/13/13	Individual requesting information about HNTR volunteer program	Seeking employment. Provided HNTR information, invited to orientation; interested in volunteering
11/05/13	Hui Malama Po’o member	Referred to Creative Arts Program at Rehab Hospital
11/03/13	TBI advocate	Provided feedback that CDC concussion cards accurate and useful; sustained concussion in pedestrian incident
10/29/13	Staff at Wai’anae DVR	Referred to BIA—HI, Hui Malama Po’o

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

Collaborate with Developmental Disabilities Division, State Traumatic Brain Injury Advisory Board, and State Neurotrauma Advisory Board to assist in the development of the PSAs.

The third edition of the monthly newsletter will be distributed the week of December 16, 2013. The marketing plan continues to be developed. A new Neurotrauma Registry Assistant begins work later this month, and she is well-versed in social media and marketing.

3. Goal 3: Develop and Implement an Evaluation Process to Assess the Goals and Objectives of the Hawai’i Neurotrauma Registry Project

Staff members are using participatory and formative evaluations for all project orientations and trainings. Outcomes are included in the semi-annual report.

4. Goal 4: Reporting

a. Report and Update Project Progress to the Following Organizations

- i. 4.1.1. Neurotrauma Advisory Board
 - 1. June 21, 2013
 - 2. August 22, 2013
 - 3. December 12, 2013
- ii. 4.1.2. State Traumatic Brain Injury Advisory Board
 - 1. May 17, 2013
 - 2. July 19, 2013
 - 3. September 27, 2013
- iii. 4.1.3. State Department of Health, Developmental Disabilities Division, Outcomes and Compliance Branch
 - 1. June 5, 2013
 - 2. July 10, 2013
 - 3. August 7, 2013

4. September 11, 2013
5. October 9, 2013
6. December 11, 2013

b. Objective 2: Health Insurance Portability and Accountability Act of 1966 (HIPAA) Compliance

The Hawai'i Neurotrauma Registry Project staff have completed and received Curriculum Completion Certificates for the following HIPAA trainings:

- Social and Behavioral Research—Basic Refresher Curriculum
- Social and Behavioral Responsible Conduct of Research

c. Objective 3: Semi Annual Reports to State Department of Health, Including Electronic Data

Staff members are reviewing a draft of the first semi-annual report covering March 22, 2013—September 22, 2013.

- Semi-Annual Period 1: March 22, 2013—September 22, 2013
- Semi-Annual Period 2: September 23, 2013—March 21, 2014

d. Objective 4: Provide Annual and Final Report to State Department of Health Not applicable at this time.

The annual report covers the first twelve (12) months of progress for the Hawai'i Neurotrauma Registry Project. The final report concludes the Contract. Both reports include documentation to show fulfillment of the Contract. An original and one (1) copy is submitted to the Hawai'i State Department of Health, Developmental Disabilities Division, Outcomes and Compliance Branch.

Hawai'i Neurotrauma Registry Recruitment Grid

Items in *italics* have already occurred.

Direct				
Target Audience	Date	Primary Audience	Date	Secondary Audience
1. Infants			9-14-13 10-6-13 10-27-13	<i>Kokokahi Community Fair</i> <i>Children & Youth Day</i> <i>Hawaii Pacific Health Kids Fest</i>
2. Children Subgroup: • Grades K-6	7-3-13 9-14-13 10-27-13	<i>ESPN Sports Festival</i> <i>Kokokahi Community Fair</i> <i>Hawaii Pacific Health Kids Fest</i>	10-6-13	<i>Children & Youth Day</i>
3. Teens Subgroups: • Grades 7-12 • Transitional Age (13-19)	7-3-13 9-14-13 10-6-13 10-27-13	<i>ESPN Sports Festival</i> <i>Kokokahi Community Fair</i> <i>Children & Youth Day</i> <i>Hawaii Pacific Health Kids Fest</i>	5-12-13 12-8-13	<i>Hele On Kaka'ako</i> <i>Project Grad Windward Holiday Fair</i>
4. Adults Subgroups: • Transitional Age (20-25) • Veterans • Employable (16-65)	4-27-13 5-4-13 5-7-13 5-8-13 5-12-13 7-3-13 7-20-13 9-4-13 9-5-13 11-13-13 12-8-13	<i>Hui Malama Po'o Meeting</i> <i>BIA-HI Support Group Meeting</i> <i>Stroke Fair at Rehab Hospital</i> <i>SERVS (Supportive Education for Returning Veterans and Service Members)</i> <i>Hele On Kaka'ako</i> <i>ESPN Sports Festival</i> <i>Convoy of Hope</i> <i>UH Manoa Volunteer Fair</i> <i>Spinal Cord Injury Open Forum</i> <i>Kalihi Valley Neighborhood Board Meeting</i> <i>Project Grad Windward Holiday Fair</i>	9-27-13 to 9-29-13	<i>Senior Fair/The Good Life Expo</i>
5. Seniors Subgroup: • Veterans	5-4-13 5-7-13 5-8-13 9-27-13 to 9-29-	<i>BIA-HI Support Group Meeting</i> <i>Stroke Fair at Rehab Hospital</i> <i>SERVS (Supportive Education for Returning Veterans and Service Members)</i> <i>Senior Fair/The Good Life Expo</i>	9-5-13	<i>Spinal Cord Injury Open Forum</i>

	13 11-13- 13 12-8-13	<i>Kalihi Valley Neighborhood Board Meeting Project Grad Windward Holiday Fair</i>		
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Indirect				
Target Audience		Primary Audience		Notes
6. Medical Includes: <ul style="list-style-type: none"> • Physicians • Staff Members • Hospitals • Clinics • Other related 	11-26- 13 1-7-14 1-7-14	<i>Rehabilitation Hospital of the Pacific (information for patient discharge binders) Fall Prevention Consortium Kapiolani Medical Center Queen's Trauma Board Dr. Thomas Harding (flyers)</i>		
7. Non-medical Includes: <ul style="list-style-type: none"> • Agencies • Organizations • Foundations • Employment • Education • Clinicians • Neighborhoods • Other related 	11-13- 13	<i>Kalihi Valley Neighborhood Board Meeting</i>		
8. Members of Legislature (esp. Health Committee)				

Concussion Report for School Year 2013 - 2014

Report Summary from 8/1/13 to 11/30/13

67 Schools	Total	BIIF	KIF	MIL	ILH	OIA
Number of Baselines	5869	1240	360	327	1813	2117
Number of Concussions	708	58	32	58	172	388
# of Concussion 11/30/12	520	41	27	59	92	301

Presentations:

1. August 10, Keiki Day at Kahala Mall
2. August 31, Island Football League at Wahiawa District Park
3. September 7th, Big Boys Football at Kuhio Park Terrace
4. Dept. of Park & Recreation, Waimanalo District Park
5. October 2nd, Hilo Pop Warner
6. October 6th, Children & Youth Day @ State Capital
7. October 27th, Hawaii Pacific Health, Kids Fest @ Bishop Museum

SPORTS	Number of Baseline	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
Baseball (M)	185	7	3	10
Baseball (F)	4	0	0	0
Basketball (M)	490	6	14	20
Basketball (F)	478	3	41	44
Boating Related (M)	14	0	0	0
Boating Related (F)	23	0	0	0
Cheerleading (M)	15	0	0	0
Cheerleading (F)	294	58	9	67
Football (M)	1168	345	14	359
Football (F)	3	2	0	2
Golf (M)	4	0	0	0
Golf (F)	5	0	0	0
Lacrosse (M)	0	0	0	0
Lacrosse (F)	2	0	0	0
Martial Arts (M)	11	0	0	0
Martial Arts (F)	6	1	0	1
Soccer (M)	572	3	15	18
Soccer (F)	712	15	36	51
Softball	161	14	1	15
Swimming (M)	17		0	0

Concussion Report for School Year 2013 - 2014

Swimming (F)	26	0	0	0
Tennis (M)	21		0	0
Tennis (F)	42	2	1	3
Track & Field (M)	11	1	0	1
Track & Field (F)	10	1	0	1
Volleyball (M)	30	0	0	0
Volleyball (F)	750	44	1	45
Water Polo (M)	110	1	0	1
Water Polo (F)	20	0	0	0
Wrestling (M)	266	4	6	10
Wrestling (F)	123	5	6	11
X-Country (M)	71	3	0	3
X-Country (F)	51	1	0	1
Others (M)	79	23	8	31
Others (F)	95	7	7	14
Total	5869	546	162	708

BIIF	Number of Baselines	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
School				
Hilo High School	110	12	1	13
Honokaa High School	127	4	0	4
Kamehameha Schools-Hawaii	381	0	1	1
Kau High School	82	1	1	2
Kea'au High School	115	9	0	9
Kealakehe High School	234	7	1	8
Kohala High School	0	0	0	0
Konawaena High School	102	6	4	10
Pahoa High School	21	0	0	0
Waiakea High School	68	10	1	11
Total (10 Schools)	1240	49	9	58

Concussion Report for School Year 2013 - 2014

KIF	Number of Baselines	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
School				
Kapaa High School	117	11	2	13
Kauai High School	146	8	2	10
Waimea High School	97	7	2	9
Total (3 Schools)	360	26	6	32

MIL	Number of Baselines	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
School				
Baldwin High School	61	12	3	15
Hana High School	26	4	1	5
King Kekaulike High School	124	9	2	11
Lahainaluna High School	30	5	0	5
Lanai High School		0	0	0
Maui High School	86	20	2	22
Molokai High School		0	0	0
Total (10 Schools)	327	50	8	58

ILH	Number of Baselines	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
School				
ASSETS School	8	1	0	1
Christian Academy	12	1	1	2
Damien High School	136	19	3	22
Hanalani School	16	3	2	5
Hawaii Baptist Academy	121	7	7	14
Honolulu Waldorf School	54	0	0	0
Iolani High School	396	7	4	11
Island Pacific Academy	4	1	1	2
Kamehameha Schools-Oahu	377	11	8	19
La Pietra Hawaii School	81	0	3	3
Lanakila High School	38	0	0	0
Le Jardin Academy	99	4	0	4

Concussion Report for School Year 2013 - 2014

Lutheran High School	20	1	1	2
Mid-Pacific Institute	167	13	8	21
Pacific Buddhist Academy	71	0	0	0
Sacred Heart Academy	28	1	0	1
St. Andrews Priori	5	1	1	2
St. Francis	133	12	2	14
St. Louis School	19	26	5	31
University Lab High	28	10	8	18
Total (21 Schools)	1813	118	54	172

OIA School	Number of Baselines	Number of Concussion		
	8/1/13 to 11/30/13	8/1/13 to 10/31/13	11/1/13 to 11/30/13	Total to date
Aiea High School	92	5	1	6
Anuenue School	7	8	1	9
Campbell High School	43	26	11	37
Castle High School	77	34	8	42
Farrington High School	138	9	6	15
Kahuku High School	165	6	4	10
Kailua High School	70	8	3	11
Kaimuki High School	65	6	1	7
Kaiser High School	145	7	5	12
Kalaheo High School	110	20	5	25
Kalani High School	214	9	2	11
Kapolei High School	110	2	4	6
Leilehua High School	218	45	5	50
McKinley High School	66	9	3	12
Mililani High School	56	22	4	26
Moanalua High School	57	15	8	23
Nanakuli High School	0	8	2	10
Pearl City High School	139	19	1	20
Radford High School	65	6	2	8
Roosevelt High School	44	19	4	23
Waialua High School	84	7	1	8
Waianae High School	14	5	0	5
Waipahu High School	138	8	4	12
Total (23 Schools)	2117	303	85	388

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:

Molokai General Hospital, Wahiawa General Hospital and Hilo Medical Center are active. Three 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.

- Number of Telehealth sessions:
28 Telestroke calls completed:
 - 5 from Molokai General Hospital (activated on 11/8/2011)
 - 22 from Wahiawa General Hospital (activated on 6/21/2012)
 - 1 from Hilo Medical Center (activated on 8/1/13)
- 5 calls not completed – could not connect or complete due to technical reasons.
- Outcomes of calls: 18 of 28 patients transferred to QMC

15 patients received tPA at spoke site and 14 subsequently transferred to QMC.

Pt. 1: Initial NIHSS of 9 and discharge NIHSS of 2. D/C to home.

Pt. 2: Initial NIHSS of 6 and discharge NIHSS of 1. D/C to home.

Pt. 3: Initial NIHSS of 16 and discharge NIHSS of 16. D/C to hospice with left lung small cell carcinoma and metastases to the brain.

Pt. 4: Initial NIHSS of 5 and discharge NIHSS of 1. D/C to home.

Pt. 5: Initial NIHSS of 14 NIHSS of 0. D/C to home
(Question of malingering or conversion disorder).

Pt. 6: Initial NIHSS of 13 which did not improve. D/C to nursing home.

Pt. 7: Initial NIHSS of 6. NIHSS of 2 upon arrival to QMC (5/28/13)
DC to home.

Pt. 8: Initial NIHSS of 5 decreased to 0 on transfer. DC to home.

Pt. 9: Initial NIHSS of 8. DC to RHOP-hemorrhagic conversion

Pt. 10: Initial NIHSS of 3 and remained with NIHSS of 3 on
6/11/13. DC to home.

Pt. 11: Initial NIHSS of 11. DC to RHOP and last NIHSS was 13.

Pt. 12: Initial NIHSS of 13. Pt not transferred to QMC. DC to
home after 3 days in rehab at HMC. Final NIHSS was 0.

Pt 13: Initial NIHSS of 11. Patient with improved movement but
remained aphasic after transfer to QMC. DC to RHOP with final
NIHSS of 6.

Pt 14: Initial NIHSS 7 at time of Telestroke and 15 on arrival at
QMC. DC to RHOP

Pt 15: Initial NIHSS 7. Complete resolution of stroke symptoms
after IV tPA administration with NIHSS score of 0 on arrival to
QMC. DC to home.

- 3 patient did not receive tPA but transferred to QMC for closer monitoring and further evaluation.
- 1 patient transferred to QMC but final diagnosis of seizure
- 9 patients remained at spoke site since they were not tPA candidates and did not require a higher level of care. These patients were found to be either mild stroke, complex migraine, old stroke, ICH or with transient symptoms.
- Calls take 40 to 45 minutes to complete

Potential Spoke Sites

- Contracting is being executed to bring on Kona Community Hospital and The Queen's Medical Center-West Oahu as the next two spoke hospital sites.

Neurotrauma Special Fund Deposits Fiscal Years 2007-2013
FY

2007	\$730,910
2008	\$755,896
2009	\$879,354
2010	\$820,062
2011	\$868,386
2012	\$829,004
2013	\$861,207

