



COLORADO
Department of Education

Annual Report to the Colorado Traumatic Brain Injury Trust Fund Board

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OVERVIEW

Background

MINDSOURCE Brain Injury Network within the Office of Community Access and Independence at the Colorado Department of Human Services (CDHS) contracted with the Colorado Department of Education (CDE) for brain injury support services for FY2020 (July 1, 2019 through June 30, 2020). The scope of this work involved building the infrastructure of Colorado schools and the capacity of school personnel and health professionals; providing support to develop and maintain both school based concussion management teams and district based brain injury consulting teams. In addition, this contract involved providing for the following: general training on brain injury, both in the schools, as well as, in the community; developing guidelines/protocols, and monitoring and developing appropriate policies related to supporting students with brain injury in the education setting. Finally, this contract involved partnering with community agencies and others at CDE to build the capacity of families to better understand how to support their child with a brain injury. Funding for this work is provided through MINDSOURCE Brain Injury Network, Traumatic Brain Injury Trust Fund revenue.

KEY ACCOMPLISHMENTS FOR FY2020

- Disseminated information explaining and promoting Return to Learn Concussion Management Teams to administrators and educators at conferences and meetings.
- Facilitated monthly Return to Learn Concussion Management Team (CMT) Community of Practice (CoP) Meetings for individuals who completed the CMT training.
- Facilitated bi-monthly Concussion Action Team (CAT) teleconference meetings to keep districts up-to-date on concussion information.
- Provided consultation to school personnel and parents with questions regarding concussion.
- Provided a two-day New BrainSTEPS CO Team/Team Member training and trained three additional BrainSTEPS CO Brain Injury Consulting Teams and 44 new team members to add to existing teams. There are now 21 District and five Board of Cooperative Educational Services (BOCES) Level BrainSTEPS CO Teams with 205 team members serving 64 districts in Colorado.
- Provided a one-day up-date training for 166 BrainSTEPS CO team members.
- Held monthly teleconference calls with BrainSTEPS CO Team Leaders.
- Supported BrainSTEPS CO team members through consultation and mentoring.
- Disseminated brain injury information at conferences and professional meetings.
- Maintained the Traumatic Brain Injury (TBI) and CAT listservs, disseminating information on a regular basis.



- Developed suggestions for teachers serving students with concussion and mod/serve brain injury virtually during the COVID-19 pandemic.

KEY ACTIVITIES FOR FY2020

1. Develop, implement, and maintain a network of school-based concussion management teams (CMTs).

- a. Provide training to, and obtain buy-in from, appropriate administrators and school building personnel.

The following activities took place during FY20 to encourage administrative support for CMTs and to get appropriate groups to register for the training:

- Promoted the Return to Learn CMT training via discussion and dissemination of *Why Your School Needs a Return to Learn CMT* flyers distributed to school administrators and school personnel at a booth manned by Dr. Tyler at the:
 - Colorado Association of School Executives' (CASE) Conference, 7/24-25/19, Breckenridge, CO. (Approximately 1,100 school administrators attended this conference.)
 - Networking session during CDE's School Nurse's Orientation (7/26/19) in Aurora, Colorado
 - Colorado Association of School Nurses' Conference, 11/3/18, Loveland, CO.
 - Colorado School Counselors' Association Conference, 10/11-12/19, Loveland, CO.
 - Colorado Association of School Nurses' Conference, 11/2/19, Loveland, CO.
- Presented *Return to Learn following Concussion: Information for Administrators* highlighting the Return to Learn CMT training with Cheryl Vincent, an assistant principal from Pueblo County School District, at the CASE Conference on 7/24/19.
- Promoted Return to Learn CMT training during a webinar presentation entitled Return to Learn Following Concussion: The Role of the School Nurse at the Colorado School Nurses' Orientation (2/4/20).
- The Return to Learn CMT training was promoted at the Concussion Action Team (CAT) Teleconference (8/23/19, 2/18/20, 4/16/20) and monthly BrainSTEPS CO Team Leader Teleconference Meetings.

b. Develop CMTs in a minimum of 25 schools.

As shown in the following table, at the end of FY2020, 177 CMTs were registered for the CMT trainings (with 455 individuals on those teams). Additionally, 235 BrainSTEPS CO Team Members were registered for



the CMT training. Thirty-two districts have one or more Return to Learn CMTs.

Concussion Management Team Registrations

Groups Registered for CMT Training	Number Registered as of 06/30/2019	Number Registered as of 06/30/2020
Schools with CMTs	117	177
Return to Learn CMTs	157	182
Districts with CMTs	25	47
Individuals on CMTs	311	455
BrainSTEPS CO Members Registered for CMT Training	180	235

- c. Conduct monthly Return to Learn CMT Community of Practice meetings.

To help support the Return to Learn CMTs once they have completed the training, Return to Learn CMT Community of Practice (CoP) monthly meetings are held. These meetings are open to all persons who have completed the Return to Learn CMT online training. The meetings are co-hosted by Drs. Tyler and Eagan-Johnson, Director of the BrainSTEPS Pennsylvania program. The purposes of the online meetings are to disseminate new concussion research and to provide answers to questions participants may have regarding concussion management. During each meeting, a PowerPoint presentation was delivered highlighting concussion research, concussion resources, case studies, and strategies for Return to Learn. Participants were encouraged to ask questions about Return to Learn concussion management. PowerPoint presentations from each meeting are available upon request.

Return to Learn Concussion Management Community of Practice Meetings

Return to learn CMT CoP Meeting Date	Approximate Number Attending from CO & PA (count from Zoom participant list)
09/18/19	32
10/16/19	45
11/20/19	42
12/18/19	36
01/22/20	43
02/12/20	47
03/18/20	10
04/22/20	100
05/20/20	48

- d. Conduct bi-monthly Concussion Action Team (CAT) meetings.

Dr. Tyler held bi-monthly CAT webinar meetings during the school year to share concussion updates and facilitate a discussion of current research articles and new materials produced within the brain injury



field. School professionals discussed challenges, shared information/documents, and achievements related to concussion management. The following table shows CAT teleconference dates, number of persons attending via GoToMeeting, and the number of districts represented.

Concussion Action Team Teleconference Meetings

CAT Meeting Date	Number of Persons Attending	Number of Districts/BOCES
08/29/19	6	5
10/22/19	8	8
12/05/19	17	11
02/18/20	10	9
04/16/20	27	16

Attendees from the following 20 school districts participated in CAT meeting during FY20: Academy 20, Aspen, Boulder Valley, Denver Public Schools, District 27J, District 49, Douglas County, Garfield, Gunnison Schools, Jefferson County, Littleton Public Schools, Manitou Springs, Mesa County Valley 51, Montrose County, Pueblo District 60, Swink, St. Vrain, San Juan BOCES, Weld RE-4, and Weld County 6.

Additionally, 382 school district CAT listserv members were emailed minutes from each meeting. The minutes contained concussion resources and links to research articles and resources discussed during the CAT conference call.

- e. Assist districts with developing concussion guidelines.
 - Upon request, a phone meeting was held with Jefferson County Public School’s new concussion/TBI resource nurse/district BrainSTEPS Coordinator, Toni Grishman, to discuss how they can incorporate BrainSTEPS CO standards into their school’s concussion protocol (8/21/19).
 - BrainSTEPS CO Teams and CAT listserv members were informed that House Bill 19-1208 was amended to include licensed physical therapists with training in pediatric neurology or concussion evaluation and management to the list of health care providers for the purpose of ensuring compliance with required head trauma guidelines in organized youth athletic activities.
 - Consulted with Thompson School District as they were in the process of updating their Standard Operating Procedures on TBI and concussions.
2. Develop, implement, and maintain a network of BrainSTEPS CO Teams across the state through BrainSTEPS CO team trainings.
- a. Develop and implement a two-day BrainSTEPS CO New Team Member training fall 2019.

The following actions were taken to prepare for the BrainSTEPS CO New Team/Team Member training:



- Developed and disseminated *BrainSTEPS CO District/BOCES Brain Injury Consulting Teams* rack card and *Why Your District Needs a BrainSTEPS CO Team* information sheet at the Colorado Association of School Administrators Conference 7/24/19 and 7/25/19 in Breckenridge, Colorado.
- Recruited districts who were without BrainSTEPS CO teams (e.g., Weld RE-4, San Juan BOCES) through discussions with appropriate district personnel.
- Encouraged existing BrainSTEPS CO teams to send additional district personnel to November training if they had openings on their teams.
- Posted notices of the BrainSTEPS CO New Team Training on the CDE's Weekly Newsletter, TBI listserv, School Nurse listserv, and in the Exceptional Student Services Online Newsletter.

BrainSTEPS CO New Team/Team Member Training

A total of 68 individuals applied for the New Team/Team Member training by the deadline and after review, 66 persons were accepted for the training (reasons for denial were as follows: one applicant was a practicum student and the other had only one person apply from her district – instructions state that a minimum of four persons from a district must apply). Notices were sent to those that were accepted and those who were not accepted for the training.

The BrainSTEPS CO training (see Appendix A for Agenda) was held at the Wheat Ridge Recreation Center in Wheat Ridge, CO on 11/13-14/19. A total of 61 Colorado school district personnel from 19 districts/BOCES attended the training to become BrainSTEPS CO team members (see following BrainSTEPS CO New Team Training November 13-14, 2019 table). Participants included district nurses, school nurses, instructional specialists, special education teachers, occupational therapists, physical therapists, speech language therapists, school psychologists, social workers, a district Director of Special Services. Additionally, a BrainSTEPS CO Team Leader who had all new team members attended the training so she could be there to help plan with and support her new team members. The Youth Education Liaison from the Brain Injury Alliance of Colorado (BIAC), Katarina Ignacek also attended the training.

Following is a listing of the school districts/BOCES and the number of individuals trained from each district/BOCES. New teams are marked with an asterisk*.



BrainSTEPS CO New Team/Team Member Training - November 13-14, 2019

District	Number Attending
Adams 12	1
Aurora Public Schools	3
Boulder Valley SD	1
Cherry Creek	3
Colorado River BOCES	1
Denver Public Schools	3
Douglas County SD	4
East Central BOCES	1
Fort Morgan RE-3	2
Fountain-Fort Carson SD 8	2
Harrison 2 SD	6
Jefferson County	7
Mesa County Valley SD 51	1
Montrose County SD*	4
Poudre SD	1
San Juan BOCES*	7
School District 49	6
Thompson R2-J*	2
Weld RE-4*	6
TOTAL	61

While the main content for the two-day training was delivered by the CDE brain injury consultants, Tyler, Hotchkiss, and Crawford; Judy Dettmer was invited to provide an overview of MINDSOURCE Brain Injury Network (because of a scheduling conflict Karen Ferrington presented for Ms. Dettmer). Additionally, community partners with whom the teams are likely to have frequent interactions, were invited to present an overview of their programs. These presenters included Laura Magnuson from Craig Hospital and Katarina Ignacek from BIAC. Due to a scheduling conflict, Jodi Krause from Children’s Hospital was unable to present, but handouts were sent for the group.

All individuals who were accepted for the November BrainSTEPS CO New Team Training were sent a link to complete an online *Knowledge about Children and Youth with Brain Injury* pretest prior to the training. A total of 63 persons completed the pre-test. Following the training, participants were asked to complete the *Knowledge about Children and Youth with Brain Injury* post-test. A total of 57 persons completed the post-test (93% completion rate for those attending the training).

Scores were compared with those who took both the pretest and the post-test, and as a group; participants scored 68.17% on the pretest and 82.82% on the post-test, showing a 14.65% gain in knowledge. On all but one question, participants showed an increase in scores. Where the score did not increase or was only minimal (indicating not all participants had a thorough understanding of the



concept), those topics will be reviewed through follow-up with the new team members (e.g. during meetings with new teams).

Participants were also expected to complete the *BrainSTEPS CO Brain Injury New Team Training Evaluation Survey*. To increase participation, participants were told at the training that they would have a chance to be entered into a drawing for a \$100 Lash & Associates gift certificate by completing both the post test and evaluation. A total of 61 individuals completed the evaluation survey (100% completion rate). With the 2-day training in mind, the survey asked participants to respond to the statements listed in the following table, rating each 1) Strongly Disagree, 2) Disagree, 3) Agree, or 4) Strongly Agree:

BrainSTEPS CO New Team/Team Member Training 11/13-14/19 Evaluation Survey

Question	Strongly Disagree	Disagree	Agree	Strongly Agree	Weighted Average
The presenter(s) instruction of the content was effective.	0.00% 0	3.28% 2	36.07% 22	60.66% 37	3.57
The presenter(s) knowledge of the content was comprehensive.	0.00% 0	1.64% 1	16.39% 10	81.97% 50	3.80
The content presented in this training was high quality.	0.00% 0	1.64% 1	34.43% 21	63.93% 39	3.62
The activities in this training gave me sufficient practice and feedback.	0.00% 0	8.33% 5	53.33% 32	38.33% 23	3.30
I will implement strategies, skills, and/or knowledge as a result of this training.	0.00% 0	1.64% 1	3.15% 19	67.21% 41	3.66
As a result of this training, I know where to access support and resources for students with acquired brain injury.	0.00% 0	0.00% 0	32.79% 20	67.21% 41	3.67
As a result of this training, my knowledge of students with acquired brain injury has improved.	0.00% 0	1.64% 1	32.79% 20	65.57% 40	3.64

Additionally, the following yes/no survey statement was provided to participants “I will share the information I learned at this training with my colleagues.” Sixty-one (100%) of the respondents answered “yes”.

Two open ended questions were also asked of respondents. The first required participants to respond to the statement “Overall I thought this training was”.

Examples of participants’ responses included:

“Excellent, practical, helpful, informative”

“Very comprehensive and provided excellent intervention strategies to assist students who are re-integrating into the school setting post TBI and concussion”



“Absolutely amazing. A great mix of review, built upon knowledge, and framework for use and structure of developing a team. It was incredible!”

A final survey question asked participants “What types of additional information or follow-up activities should be provided?” Information received from this question will be used when planning future trainings.

- On 3/26/20 a teleconference meeting was held with Ann Symalla, CDE, Exceptional Student Services Unit (ESSU) monitoring specialist for Colorado Facilities School, Barb Taylor, Director of the Spectra Center (a Facility School), and Heather Hotchkiss, ESSU, to further the discussion of the possibility of developing a BrainSTEPS CO team to serve the facilities schools. Further discussions will take place.

b. Develop and implement a BrainSTEPS CO Up-Date training spring 2020.

A full day BrainSTEPS CO Update Training was held for BrainSTEPS CO team members at the Conference Center at Adams 12 in Thornton, CO. BrainSTEPS CO team members attended the training to increase their knowledge of brain injury and skills in serving as BrainSTEPS CO team members. In addition to updates by CDE BrainSTEPS CO staff Tyler and Hotchkiss, Paul Jantz, Ph.D., Associate Professor, School Psychology Program, Texas State University, provided an in-depth presentation entitled *Neuroimaging: A window to the past*.

Following is a listing of the BrainSTEPS CO teams and the number of individuals attending the Update Training from each district or BOCES team.



Districts/BOCES Attending March 1, 2020 BrainSTEPS CO Update Training

District	Number Attending
Academy 20	3
Adams 12	6
Aurora 28J	6
Boulder Valley SD	6
Centennial BOCES	9
Cherry Creek SD	9
Colorado River BOCES	6
Denver Public Schools	7
Douglas County SD	10
East Central BOCES	5
Fort Morgan RE-3	4
Fountain-Fort Carson SD 8	3
Harrison 2 SD	11
Jefferson County	14
Mesa County Valley SD 51	4
Montrose County SD	3
Poudre SD	9
Pueblo County District 70	9
San Juan BOCES	6
School District 27J	5
School District 49	8
St. Vrain Valley SD	8
Thompson Schools	5
Ute Pass BOCES	4
Weld RE-4	6
Total	166

All persons who registered for the training were sent a link to complete an online *March 2020 BrainSTEPS CO Update Training Pre-Test* prior to the training. The pretest was composed of questions submitted by the invited speaker. A total of 149 persons completed the 7 question pre-test. Following the training, participants were asked to complete the *March 2020 BrainSTEPS CO Update Training Post-Test*. 142 persons completed the 7 question post-test.

Scores were compared for those who took the pretest and the post-test, and as a group, participants scored 49.19% on the pretest, and 88.03% on the post-test, showing 48.31% gain in knowledge.



All participants were also expected to complete the *BrainSTEPS CO Brain Injury Update Training March 2020 Evaluation Survey*. A total of 130 individuals completed the evaluation survey (78% completion rate). The survey asked participants to respond to the following statements for presentations covered in the training; rating each: 1) Strongly Disagree, 2) Disagree, 3) Agree, or 4) Strongly Agree.

BrainSTEPS CO Update Training March 2020 - Evaluation Survey

Question	Strongly Disagree	Disagree	Agree	Strongly Agree	N	Weighted Average
The presenters(s) instruction of the content was effective.	0.77% 1	2.31% 3	33.08% 43	63.85% 83	130	3.60
The presenters(s) knowledge of the content was comprehensive.	0.77% 1	0.00% 0	9.23% 12	90.00% 117	130	3.88
The content presented in this training was high quality.	0.78% 1	2.34% 3	25.00% 32	71.88% 92	130	3.68
I will implement strategies, skills, and/or knowledge as a result of this training.	0.77% 1	7.69% 10	44.92% 61	44.62% 58	130	3.35
As a result of this training, my knowledge of students with acquired brain injury has improved.	0.77% 1	3.85% 5	28.46% 37	66.92% 87	130	3.62

BrainSTEPS CO Update Training March 2020 - Evaluation Survey (continued)

Question	Yes	No	N
I will share the information I learned at this training with my colleagues.	96.15% 125	3.85% 5	130

Two open ended questions were also asked of respondents. The first required participants to respond to the statement “Overall I thought this training was...”. Examples of participants’ responses included:

“Very informative. My understanding of TBI was definitely deepened.”

“High quality, made me think a lot about my service delivery, observation and consultation”

“Great information and I can use this when explaining to parents what a head injury can do to a child.”

“Very good. I thought it was interesting and I really liked the blend between the medical aspects and how it relates educationally.”

A final survey question asked participants “What types of additional information or follow-up activities should be provided?” Responses received from this question will be used for planning future trainings.



c. Develop and implement a BrainSTEPS CO Team Leader training spring 2020.

- A training date and training site were confirmed in the fall of 2019 for the 2020 spring Team Leader training.
- During the first part of quarter three, preparation took place for the April 21, 2020 BrainSTEPS CO Team Leader meeting. The Official Function Form was submitted and approved, catering was ordered, hotel rooms were secured, and site details at Front Range Community College were confirmed.
- An email survey was sent to the team leaders to determine brain injury topics they would most like to see addressed at the Team Leader Training. Based on the survey, an agenda was developed, and an outside speaker was confirmed for a portion of the day.
- At the end of March, due to the COVID-19 pandemic, the in person April 21st Team Leader Training was cancelled (catering, venue, hotel rooms, speaker, etc.).
- After discussions with BrainSTEPS CO team leaders, it was determined that the April 21st Team Leader Training would not be held in person or virtually since team leaders had numerous commitments in the initial days of transitioning to online learning due to the COVID-19 pandemic. Thus, after communications with team leaders it was decided a one-hour team leader webinar meeting would be held on April 21st instead.
- Dr. Tyler coordinated with Pennsylvania’s BrainSTEPS Program Director, Dr. Brenda Eagan-Johnson, to allow Colorado’s BrainSTEPS team members the opportunity to participate in Pennsylvania’s BrainSTEPS Annual Team Member Capacity Building Virtual Training. The topics presented included *Opioid Misuse and Brain Injury, transition resources and funding* presented by Monica Vaccaro and *Brain Injuries Caused by Abusive Head Trauma* by Carole Jenny, MD (see appendix C). A total of 56 BrainSTEPS CO team members viewed the webinar training live. BrainSTEPS team members were given certificates of attendance based on the number of hours they were logged into the webinar. Feedback from BrainSTEPS CO team members regarding the training was extremely positive

d. Provide support for BrainSTEPS CO teams.

Monthly Team Leader Meetings

BrainSTEPS CO Team Leader Meetings are held monthly via GoToMeeting to update the team leaders with new information, announcements, etc. This also provides them with an opportunity to ask any questions they may have regarding BrainSTEPS CO procedures, management of students with TBI, etc. Each meeting begins with announcements and updates being disseminated through a PowerPoint presentation. The meeting ends with a question and answer session and general discussion. Minutes from each of the BrainSTEPS CO Team Leader Monthly Conference calls are sent to all team leaders following the call and are posted on the BrainSTEPS website where they are available to view by all Colorado BrainSTEPS team members. Team leaders are instructed to share information gained with their teams.



The table below shows the BrainSTEPS CO Team Leader Monthly Meeting Teleconference dates, number of persons attending via GoToMeeting, and the number of districts represented, and the topics discussed

Team Leader Monthly Teleconference Meetings

Date	Number of Team Leaders Attending	Number of Districts/BOCES	Topics
08/28/19	19	17	Announcements; Guest speakers BIAC’s Seija Curtin, Youth Brain Injury Peer Mentorship and Katarina Ignacek, Youth Services Coordinator; Douglas Co SD BrainSTEPS CO Team’s Referral Response; Training opportunities; Q&A
09/16/19	11	11	Training opportunities: sharing of Districts/BOCES who have BrainSTEPS CO webpages; ORBS database updates; eligibility
10/23/19	20	15	ORBS reports; under-identification of students with brain injury; funding your BrainSTEPS CO team
11/20/19	26	17	Summary of New Team Training; Welcome new team members; Suggestions for new team members; Community Grants overview
12/17/19	24	18	Conducting student observations; KUNC Investigative Report regarding sports concussions; Building Blocks of Brain Development – memory review
01/22/20	28	19	BrainSTEPS case study article; National Data Privacy Day; Working with Charter Schools; Transition from high school - Guest Speaker, Gail Lott Senior Consultant Secondary Transition
02/19/20	19	17	New BrainSTEPS CO videos posted on ORBS; BIAC Youth Services Coordinator position opening; new CDE contact for assessment questions regarding students on concussion protocol; New brain injury webinars available for viewing
03/25/20	22	19	Follow-up from March training; Announcement regarding April Team Leader training being cancelled; Discussion of Online Learning for Students with Concussion Handout and Online Learning for Students with Brain Injury Handout
04/21/20	29	22	Guest speaker Kate Fatica, RN, Youth Services Coordinator, Brain Injury Alliance of Colorado; BI video resources; and Team Leaders presentations from Centennial BOCES, Cherry Creek, Poudre, and Mesa 51
05/13/20	27	21	Announcement of fall New Team Training; TBI Data Dive (hospitalization data, SPED data); free brain injury webinars; and Team Leader share (what has your team found to be most helpful).



BrainSTEPS CO Team Member Consultations

It is important that BrainSTEPS CO team leaders and team members have expert support available as they carry out their roles. During FY20, Dr. Tyler responded to approximately 157 phone calls and emails from BrainSTEPS CO team leads and team members seeking information or guidance on various aspects of serving students with brain injury. Emails and notes from phone calls document these consultations.

As an additional means of providing support to the BrainSTEPS CO teams, the CDE BrainSTEPS CO staff (Tyler and Hotchkiss) continued plans from FY19 to attend one of each team’s monthly meetings. The table below lists the BrainSTEPS CO team meetings that Dr. Tyler attended during FY20.

BrainSTEPS CO Team Meetings Attended

Date	BrainSTEPS CO Team
08/07/19	Aurora School District 28J
10/01/19	Cheyenne Mountain
10/24/19	Fountain Fort Carson SD 8
02/06/20	Cherry Creek School District
02/10/20	Jefferson County School District
04/28/20	Ute Pass BOCES
05/11/20	Moffat School District
05/12/20	San Juan BOCES
05/13/20	Montrose School District
05/14/20	Weld RE-4 School District

Materials for BrainSTEPS CO Team Members

When schools changed to virtual learning due to the COVID-19 pandemic, Drs. Tyler and Eagan-Johnson developed a document entitled *Online Learning Tips for Students Following Concussion* and disseminated it to BrainSTEPS CO team members and listservs. The document was then expanded and broadened to include all students with brain injury. This document was shared with BrainSTEPS CO team members and placed on the CDE brain injury webpage <http://www.cde.state.co.us/healthandwellness/braininjury>.

BrainSTEPS CO Team Member Survey

In May 2020, an annual survey of BrainSTEPS CO team members was conducted by Dr. Tyler. A link to the survey was emailed to all BrainSTEPS CO team members. One hundred and twenty-two persons responded (89 BrainSTEPS CO team members [73%] and 33 [27%] BrainSTEPS CO team leaders) for a response rate of 61%. The table below shows the survey questions and the responses. Due to an initial glitch in the survey when it was first sent out, respondents were unable to mark “strongly agree” as an option. Thus, the numbers in the strongly agree column may be slightly lower than actual, as some team members reported that they “just went ahead and selected agree”. The table below shows the responses of the 122 respondents who completed the survey.



BrainSTEPS CO Team Members Satisfaction Survey 2020

Question	Strongly Disagree	Disagree	Agree	Strongly Agree
The communication among my team members is sufficient and effective.	0 (0%)	5 (4%)	58 (48%)	59 (48%)
My team responds in a timely manner to student referrals.	1 (1%)	4 (3%)	63 (52%)	54 (44%)
I am satisfied with the quality of services my team has provided this past school year.	0 (0%)	6 (5%)	67 (55%)	49 (40%)
When a student is referred, different team members assist in taking "point person" lead roles.	0 (0%)	14 (11%)	63 (52%)	45 (37%)
My team leader keeps me in the communication loop for referrals, meetings, etc.	0 (0%)	4 (3%)	55 (45%)	63 (52%)
Our team meetings are productive.	0 (0%)	5 (4%)	71 (58%)	46 (38%)
I feel that our team works well together.	0 (0%)	3 (2%)	50 (41%)	69 (57%)
I feel the services provided by our BrainSTEPS team this year have made a difference in the lives of the students.	0 (0%)	8 (7%)	75 (61%)	39 (32%)
I feel comfortable using the ORBS database (www.brainsteps.net).	6 (5%)	29 (24%)	72 (59%)	15 (12%)
As a result of being involved in the BrainSTEPS Program, my knowledge about brain injury has increased.	0 (0%)	0 (0%)	31 (25%)	91 (75%)
My involvement with the BrainSTEPS Program has contributed to my overall professional development.	1 (1%)	1 (1%)	33 (27%)	87 (71%)
I am satisfied with the assistance the CDE Brain Injury Consultants (Heather Hotchkiss, Janet Tyler, Nicole Crawford) have provided to me when support was requested.	0 (0%)	0 (0%)	37 (30%)	85 (70%)

The survey also contained two questions that required yes or no responses. The following table shows the responses to those questions.

BrainSTEPS CO Team Members Satisfaction Survey 2020 (continued)

Question	Yes	No
Did you participate in any student referrals this year?	90 (74%)	32 (26%)
Our team meets regularly to discuss program updates, student referrals, etc.	110 (90%)	12 (10%)

The final question on the survey stated it was "For BrainSTEPS CO Team Leaders only". While only 33 of the respondents indicated they were a team leader filling out the survey, 56 persons completed this question, as seen in the table that follows.



BrainSTEPS CO Team Members Satisfaction Survey 2020 (continued)

Question	Strongly Disagree	Disagree	Agree	Strongly Agree
I find the monthly team leader calls useful.	0 (0%)	2 (4%)	27 (48%)	27 (48%)

The results of this survey will be shared with BrainSTEPS CO team leaders at the August 2020 BrainSTEPS CO Team Leader monthly phone call. Team leaders will be encouraged to share the results with their team members and have an open discussion regarding items that some team members marked disagreed or strongly disagreed with on the survey.

- e. Aggregate data from BrainSTEPS database.

The tables below show the aggregate data from the BrainSTEPS CO database. Totals are provided by a report run at the end of each quarter.

BrainSTEPS CO Students by District or BOCES

Quarter	Number Districts/Total	Number BOCES/Total	Total New Students Added Quarter/Total
One 07/01/19-09/30/19	11/31	0/0	49/276
Two 10/01/19-12/31/19	13/32	0/0	47/324
Three 01/01/20-03/31/20	13/35	0/0	52/376
Four 04/01/20-06/30/20	6/35	0/0	13/388

BrainSTEPS CO Students by Age

Quarter	Number New Students Added 0-2 Years/Total	Number New Students Added 3-5 Years/Total	Number New Students Added 6-12 Years/Total	Number New Students Added 13-18 years/Total
One 07/01/19-09/30/19	16/63	3/30	11/57	18/75
Two 10/01/19-12/31/19	11/94	4/38	14/81	18/111
Three 01/01/20-03/31/20	18/112	6/44	11/92	16/127
Four 04/01/20-06/30/20	2/110	1/45	7/99	2/129



BrainSTEPS CO Student Reported by Category of Student’s Medical Diagnosis

Quarter	Number TBI (mod/severe) Added/Total	Number Non TBI Added/Total	Number Concussions (mTBI) Added/Total
One 07/01/19-09/30/19	24/146	13/59	10/43
Two 10/01/19-12/31/19	18/165	5/64	19/62
Three 01/01/20-03/31/20	21/186	11/75	12/74
Four 04/01/20-06/30/20	3/188	5/80	4/78

BrainSTEPS CO Students Reported by Category of Student’s Gender

Quarter	Number Male Students Added/Total	Number Female Students Added/Total
One 07/01/19-09/30/19	34/190	15/85
Two 10/01/19-12/31/19	28/219	19/105
Three 01/01/20-03/31/20	32/251	20/122
Four 04/01/20-06/30/20	10/261	3/127

3. Activities related to maintaining a database for both CMT and BrainSTEPS CO Team data.

- To ensure the security of the BrainSTEPS CO database it is important that only current BrainSTEPS CO team members have access to the Online Reporting for BrainSTEPS (ORBS). Thus, at the beginning of the school year an email was sent to each of the BrainSTEPS CO team leaders providing them with a current list of their team members who had access to their district’s ORBS database information, stating they were required to notify Dr. Tyler if any of the members listed were no longer on the team. After team leaders responded, Dr. Tyler ensured that members who had left the team no longer had access to the BrainSTEPS CO database.
- Responded to requests from Return to Learn CMTs to add and delete people from their teams and to help CMTs problem solve user errors.
- Worked with Tim Kelly of Leader Services to set up 3 new teams in the ORBS database.
- Added the names and contact information for 61 team members trained at the November new team training to the ORBS database.



- Worked with Sam Cartos of Frameweld to add an option to the Return to Learn CMT registration site to allow persons who are in a building with a registered CMT to view the training modules specific to school staff even if they are not on the building's CMT.
- Worked with Tim Kelly of Leader Services to get updated CDE and MINDSOURCE logos and new training videos added to the ORBS website.
- Worked with Sam Cartos of Frameweld to get updated CDE and MINDSOURCE logos on Return to Learn CMT website and to add names of schools that had changed names or were missing from the Return to Learn CMT registration dropdown menu.
- Held meetings with Tim Kelly and Jeff Eckert of Leader Services and Sam Cartos of Frameweld to discuss possibility of Leader Services taking over the BrainSTEPS Return to Learn Concussion Management training website from Frameweld. While all parties were willing to explore the possibility, after discussion, Leader Services stated they did not have expertise in the programming language Frameweld used to create the system, thus it would not be feasible for them to undertake the project.
- Secured FY21 contracts for hosting/maintenance and licensing of the BrainSTEPS ORBS database and Return to Learn Concussion Management training websites.

4. Activities and deliverables related to community-based training and outreach.

- a. Respond to education requests from school personnel, families, community providers (including partnering with the Brain Injury Alliance of CO) by either providing education or partnering with an appropriate entity to provide requested education.
 - Met with Karina Ignacek, BIAC's new Youth Service Coordinator to discuss training opportunities that could be provided to her through BrainSTEPS to help her learn more about students with brain injury in the schools.
 - Provided CDE update at the Pediatric Brain Injury Professional Network Meeting (9/5/19) at Children's Hospital.
 - Presented "Supporting Students Back to School after Brain Injuries" at the Colorado School Nurse Leadership Workshop, Parker, Colorado (9/13/19).
 - Presented "BrainSTEPS CO: Supporting Students with Brain Injuries" to Academy School District 20 - Physician's Advisory Board Meeting, Colorado Springs, Colorado (10/7/19).
 - Consulted with Amy Goddard from the Arkansas Department of Education regarding setting up brain injury consulting teams (1/29/20).

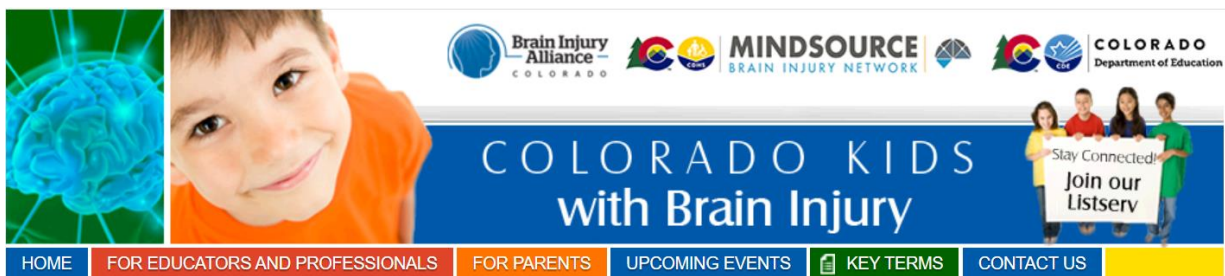


- Presented “Return to Learn Following Concussion: The Role of the School Nurse” at the School Nurse’ Orientation Webinar (2/4/20).
 - Presented “Pediatric Acquired Brain Injury: Contemporary Advances Enhancing Clinical Care, Community Integration and Lifelong Living” Day-Long Preconference Workshop with S. Grandinette, B. Eagan-Johnson, J. Krupa, M. McCart at the North American Brain Injury Society’s 15th Annual Conference on Brain Injury, New Orleans, Louisiana (2/26/20).
 - Consulted with Carrie Bradford, Ph.D., Manager, Office of Acquired Brain Injury Health, Developmental, & Independence Services, State of Texas regarding the BrainSTEPS CO (3/9/20).
 - Participated in cross-agency meetings with Barb Gabella, Colorado Department of Public Health and Environment, Liz Gerdeman, CDHS, and Heather Hotchkiss, CDE, to discuss brain injury data and the possible creation of data fact sheets.
- b. Develop and maintain a relationship with appropriate hospitals and providers in the state (e.g. Children’s Hospital of CO and Rocky Mountain Hospital for Children.)
- Kept Jodi Krause and Erin Austin from Children’s Hospital, Laura Magnuson from Craig Hospital, and Karina Ignacek from BIAC updated with the latest BrainSTEPS CO Team Leader lists.
 - Reached out to Judy Dettmer, Jodi Krause, Laura Magnuson, and Karina Ignacek to provide overviews of their programs at the BrainSTEPS CO New Team Leader Training in November.
 - Met with Jodi Krause and Erin Austin at Children’s Hospital (7/10/19) to get update on how referrals were progressing with BrainSTEPS CO teams.
 - Scheduled meeting and met with Jin Lee, PsyD, Susan Kirelike, MD, and 3 other staff members at Rocky Mountain Center for Concussion to discuss referrals to BrainSTEPS CO teams.
 - Met with Colorado Youth Concussion Education Consortium (CYCEC) physician group to discuss updates to the Brain Injury Alliance of Colorado Managing Concussions in Practice webpage.
 - Communicated with Jodi Kraus from Children’s Hospital surrounding issues with districts without BrainSTEPS CO teams.
 - Disseminated information from Jodi Kraus to BrainSTEPS CO team regarding services Children’s Hospital was providing during quarantine from Covid-19.
 - Met with Lamphere MEd, ATC/L, Program Coordinator at Banner Health Orthopedics and Sports Medicine.
 - Met with Jodi Kraus and Erin Austin from Children’s Hospital and Kate Fatica from BIAC to discuss how Children’s can best coordinate with BIAC when making referrals to BrainSTEPS CO teams.

- c. Maintain/enhance, develop content, and facilitate webpage design for the website: www.cokidswithbraininjury.com.

The Colorado Kids with Brain Injury website (<https://cokidswithbraininjury.com>) serves as a resource for educators, school administrators, school psychologists, related services professionals, and families.

In addition to regular maintenance and updates (e.g., to fix broken links, add new resources) on the website, updated CDE and CDHS logos were added to the COKids webpage during FY20. The table below shows the monthly COKids webpage analytics reports.



Colorado Kids with Brain Injury Webpage Analytics

Period	New Visits	Unique Visitors	Page Views
July 1-31, 2019	173	183	538
August 1-31, 2019	278	293	726
September 1-30, 2019	331	355	1,079
October 1–31, 2019	467	506	1,807
November 1–30, 2019	380	414	1,341
December 1-31, 2019	251	287	853
January 1-31, 2020	450	495	1,718
February 1-29, 2020	581	639	2,192
March 1-31, 2020	341	393	1,022
April 1-30, 2020	260	287	968
May 1-31, 2020	302	322	751
June 1-30, 2020	266	274	729

The Brain Injury Consultant at the Colorado Department of Education is responsible for maintaining the Health and Wellness brain Injury webpage which contains brain injury information for Colorado educators. Webpage analytic reports for the CDE Health and Wellness brain injury webpage (<http://www.cde.state.co.us/healthandwellness/braininjury>) provide the statistics as seen in the following table.



CDE Health and Wellness Brain Injury Webpage Analytics

Period	Page Views	Unique Page Views
July 1-31, 2019	94	72
August 1-31, 2019	188	120
September 1-30, 2019	232	174
October 1-31, 2019	186	140
November 1-30, 2019	221	150
December 1-31, 2019	130	97
January 1-31, 2020	230	178
February 1-29, 2020	177	134
March 1-31, 2020	168	128
April 1-30, 2020	118	71
May 1-31, 2020	109	70
June 1-30, 2020	110	95

During FY20 Dr. Tyler worked with the administrative assistant, Pam Hitt, to update the CDE Health and Wellness brain injury webpage to add new information to the page (e.g., assisting students with brain injury learning remotely during the COVID-19 pandemic) and to make it easier to navigate.

- d. Maintain and facilitate listserv e-mails on both the brain injury and concussion listservs to raise awareness on upcoming events, trainings, resources, etc.
 - Two listservs are maintained and utilized to raise awareness of upcoming events, trainings, resources, etc. The TBI listserv was recently updated and now has 1,510 members and the CAT listserv has 379 members.

Examples of information sent out via the brain injury and concussion listservs included announcements about:

- The BrainSTEPS CO November 2019 New Team and Team Member Training
- The Pediatric Brain Injury Professional Network (BIPN) quarterly meetings
- CDE’s Executive Function & Emotional Regulation Training for the School Setting
- Concussion Action Team Meetings and Minutes
- Concussions 101: What Parents Need to Know webinar sponsored by the American Academy of pediatrics
- CDC’s Brain Safety Starts with You – Brain Injury Awareness Month
- BIAC – Youth Services Coordinator Position Opening



- 2020 School Health Professional Grant Program
- Traumatic Brain Injury Tools – Free CBIRT Hosted Webinar
- CDE announces pause on 2019-20 state assessments, accountability
- Spiritual Issues Important to Parents of Children with Disabilities
- Resources for remote learning
- Tech Bridge Grant announcement
- CDC’s free webinar on Understanding Concussions in Children
- Brain Injury Association of America’s free webinar on Vestibular Issues after Brain Injury

BARRIERS/CHALLENGES FACED (IN TERMS OF MEETING SCOPE OF WORK) FOR FY2020

Disruption to in-person learning for students and in-person trainings for teachers due to the emergence of the COVID-19 pandemic served as a barrier to meeting one of the activities listed in the SOW. The scheduled early spring in-person Team Leader training had to be canceled and since it was scheduled during a time when many schools were still trying to transition to remote learning, team leaders decided that they couldn’t devote a full day to the training and opted a short team leader meeting be held instead.

PLANS FOR FY2021

Plans for FY2021 are to continue to provide training and support for BrainSTEPS CO team members and Return to Learn CMTs so they can best meet the needs of Colorado students with brain injury. Additional BrainSTEPS CO teams, BrainSTEPS CO team members, and Return to Learn CMTs will be trained to ensure coverage for Colorado buildings and districts.



Appendices



Appendix A

BrainSTEPS CO New Team/Team Member Training Agenda



New Team/Team Member Training

November 13-14, 2019

Wheat Ridge Recreation Center, Dahlia-Columbine Rooms, Wheat Ridge, CO

Wednesday – Nov. 13th

Time	Topic/Activity	Presenter
8:00-8:30a	Check in	
8:30-9:00a	Welcome, Introductions, and Instructions	Janet Tyler, PhD, CBIST Heather Hotchkiss, MSW
9:00-9:45a	What is a BrainSTEPS CO Team?	Tyler
9:45-10:00a	Break	
10:00-11:15a	What is Brain Injury and Why it is Different?	Tyler
11:15-11:45a	Break – get lunch	
11:45-12:15p	Working Lunch – Exploring Community Resources MINDSOURCE Brain Injury Network Brain Injury Alliance of Colorado	Karen Ferrington, Project Manager Katarina Ignacek, CBIS
12:15-1:00p	(Continued) What is Brain Injury and Why is it different?	Tyler
1:00-2:15p	Building Blocks of Brain Development – The Colorado Neuroeducational Model	Hotchkiss Nicole Crawford, PhD
2:15-2:30p	Break	
2:30-4:00p	(Continued) Building Blocks of Brain Development – The Colorado Neuroeducational Model	Hotchkiss Crawford

Thursday – Nov. 14th

Time	Topic/Activity	Presenter
8:00-8:15a	Check-in	
8:15-8:30a	Questions-Follow-Up from Yesterday	Hotchkiss/Tyler
8:30-9:30a	Concussions and Concussion Management Team Training	Tyler
9:30-9:45a	Break	
9:45-10:30a	Overview on Special Education Eligibility for Brain Injury	Hotchkiss
10:30-12:00p	School Re-Entry	Tyler
12:00-12:15p	Break – get lunch	
12:15-12:45p	Working Lunch- Exploring Community Resources Craig Hospital Children’s Hospital Colorado	Laura Magnuson, MEd Jodi Krause, MA
12:45-1:45p	Online Reporting for BrainSTEPS (ORBS)	Crawford
1:45-2:00p	Break	
2:00-3:00p	Team Planning Considerations	Crawford
3:00-3:30p	Closing Remarks – Evaluation & Post-test Instructions	Tyler/Hotchkiss



Appendix B
BrainSTEPS CO Update Training Agenda



BrainSTEPS CO Update Team Training

Conference Center at Adams 12
1500 East 128th Avenue, Thornton, CO 80241

Tuesday, March 3, 2020

Time	Topic/Activity	Presenter
8:00-8:30am	Check in	
8:30-9:00am	Welcome Updates	Janet Tyler, PhD, CBIST Heather Hotchkiss, MSW Nicole Crawford, Ph.D.
9:00am	Neuroimaging: A window to the past...	Paul Jantz, PhD
	Break	
	Neuroimaging: A window to the past... (continued)	Paul Jantz, PhD
11:30am-12:45pm	Lunch Team Action Plans (ORBS)	
12:45pm	Neuroimaging: A window to the past... (continued)	Paul Jantz, PhD
	Break	
end 3:30pm	Neuroimaging: A window to the past... (continued)	Paul Jantz, PhD
3:30-4:00p	Evaluation, Wrap Up & Adjourn	Hotchkiss/Tyler

Guest Presenter:

Paul Jantz, Ph.D., Associate Professor, School Psychology Program, Texas State University
Dr. Jantz is the author of the book, *Working with Traumatic Brain Injury in Schools: Transition, Assessment, and Intervention*. His research interests include the role of neuroimaging in the school-based assessment of children with TBI, increasing educator awareness of TBI, evaluating the efficacy of school-based TBI interventions, and improving service delivery for students who have sustained a TBI.



Appendix C
BrainSTEPS Pennsylvania Annual Team Member Training
BrainSTEPS CO Team Members Attended

BrainSTEPS Annual Team Member Capacity Building Training Webinar

5/28/2020

9:00am – 1:00pm EDT

Moderator: Brenda Eagan-Johnson, EdD, CBI5T

Presenters

Monica Vaccaro is the Director of Programs for the Brain Injury Association of Pennsylvania (BIAPA). In addition to her role with BIAPA, she is a Research Associate at Moss Rehabilitation Research Institute, with interest in clinical trials of interventions for common effects of brain injury, including anger management, depression, and goal setting.

Dr. Jenny is the Child Abuse Fellowship Director at Seattle Children's Hospital and a Professor of Pediatrics at the University of Washington School of Medicine. Prior to coming to Seattle, Dr. Jenny is past-Chair of the Section on Child Abuse and Neglect of the American Academy of Pediatrics, and past-Chair of the Academy's Committee on Child Abuse and Neglect. Her research interests include abusive head trauma, Internet child exploitation, and medical child abuse.

Objectives

Attendees will be able to:

1. Describe the anoxic effects of opioid use and non-fatal overdose.
2. Identify challenges in the response to treatment for addiction for individuals with brain injury.
3. Identify resources for brain injury specific treatment for addiction.
4. Identify PA state specific resources available for students of transition age who have sustained an acquired brain injury
5. Discuss the reasons abusive head trauma is difficult to diagnose in young infants.
6. Know the types of brain injury resulting from abusive head trauma.

AGENDA

9:00am – 9:15am -How opioid misuse causes brain injury

9:15am – 9:30am -Risk factors for individuals with brain injury

9:30-9:45am -Barriers for treating acquired brain injury and co-occurring substance use/misuse.

9:45am-10:00am --Challenges for individuals with brain injury affecting response to traditional treatment for substance abuse

10:00 -10:15am – Questions & Answers

BREAK – 10:15-10:30am

10:30-10:45am– Transition & Funding Resources

10:45-11:00am: Other supports for connecting to resources

11:00am -11:15am- Application to specific cases

BREAK - 11:15-11:30am

11:30 -12:00pm- Introduction to Abusive Head Trauma

12:00- 12:10pm – Why are infants so vulnerable to AHT?

12:10-12:30pm - Description of injuries to the head and skull.

12:30-12:40pm-Description of the types of brain injuries that occur.

12:40-12:50pm- Description of eye and spine injuries.

12:50pm -1:00pm- Application to specific cases