**Cochrane Child Health (CCH): a year in review**

**2017-2018**

**KNOWLEDGE TRANSLATION (KT) ACTIVITIES:**

* Developed a KT Framework
	+ Prioritizing work efforts around core activities – see Future Directions
* Active social media strategy – disseminated Cochrane and non-Cochrane evidence related to child health through a series of blog shots and tweets (3720 Twitter followers!).
* Collaborated with other Cochrane groups to help develop KT tools to share review results via social media.
* Updated CCH website: added quick links to all CCH relevant evidence including systematic reviews, overviews, webinars and podcasts, and columns in international pediatric journals.
* Evidence for Clinicians (E4C)
	+ 6 columns in *Paediatrics & Child Health* which is the official journal of the Canadian Pediatric Society.
* Cochrane Corners
	+ 4 Cochrane Corners, published in a section of *Acta Pediatrica Portuguesa.*
	+ 4 Cochrane Commentaries, published in the Australian *Journal of Paediatrics and Child Health.*
* KT tools for parents on acute childhood illnesses – in collaboration with Translating Emergency Knowledge for Kids (TREKK) and the Translating Evidence for Child Health to Enhance Outcomes (ECHO) research group
	+ Helped to systematically review literature to inform KT tool development
	+ Helped develop and evaluate two parent friendly e-tools (e-books, whiteboard animation videos, and interactive infographics. Further tools are currently under development.
	+ Helped (and continuing to help) translate and test the usability of the KT tools in other languages.
	+ Helped (and continuing to help) conduct a feasibility study around the need for translating e-tools for Indigenous populations.
* Development of Bottom Line Recommendations and Evidence Repositories
	+ For TREKK, in partnership with ECHO we helped source literature for the development of evidence repositories and publication of bottom line recommendations for a number of acute pediatric conditions.
* KT Summary Products
	+ CCH summer student examined parent preferences and useability of three different Cochrane KT summary products (Blogshots, Plain Language Summaries, SEED Summary of Findings Wikipedia tables) on an acute paediatric condition (Acute Otitis Media). This work will be presented at local conferences this September & October, and the 2019 Cochrane Colloquium (planned submission).

**PRIORITY SETTING AND PATIENT ENGAGEMENT**

* Paediatric Parent Advisory Group (PPAG)
	+ Developed in 2016. First evaluation results collected December 2017 (ongoing evaluation) *Note: Colloquium presentation,* *Sunday 16th September, 15:00pm, Rm 0S26*
	+ Helped (and continuing to help) develop a suite of child health-relevant KT tools and systematic reviews
	+ Conducted a priority setting exercise and summary overview (paired to Cochrane Review topics) *Note:* *Colloquium presentation, Sunday 16th September, 11:50am, Rm 0S32*
	+ Established connections with local child and youth advisory councils to build on PPAG work.
* Collaborative projects with ECHO
	+ Successful grant application which builds on our priority setting with parents to include the perspectives of children and youth ($50 000, 2 years).

**SYSTEMATIC REVIEW PRODUCTION**

* Assisted with finding peer reviewers for Cochrane Review Groups
	+ Protocols and full reviews
* Assisted with review production (management and information specialist)
* Updated Cochrane Review
	+ Glucocorticosteroids for croup in children
* Assisted with requests regarding:
	+ Update of ADHD systematic review
	+ Proposal inquiries:
		- Cannabis use in children
		- Impact of positive pressure on growth of the middle face

**METHODS WORK – COMPLETED AND ONGOING**

* Performed and published projects relating to
	+ Descriptive analysis of Cochrane child-relevant systematic reviews
		- Published, BMC Pediatrics 2017;17:155.
	+ Social media for the dissemination of Cochrane child health evidence
		- Published, Journal of Medical Internet Research 2017;19(9): e308.
	+ The conduct and reporting of child health research
		- Published, The Journal of Pediatrics, 2018;193: 237.
	+ Descriptive analysis of non-Cochrane child relevant systematic reviews
		- Publication under review BMC Medical Research Methodology
		- *Note: Colloquium poster, Tuesday 18th September, Poster Session 3, #362*

Work underway on the topic of expediting systematic reviews through machine learning

* + Internal methods working group publications:
		- “Technology-assisted risk of bias assessment in systematic reviews: a prospective cross-sectional evaluation of the Robot”, Journal of Clinical Epidemiology. 2018,96;54-62.
		- “Technology-assisted title and abstract screening for systematic reviews: a retrospective evaluation of the Abstrackr machine learning tool”, Systematic Reviews. 2018 Mar 12;7(1):45
		- *Note: Colloquium presentation, “Machine learning tools to expedite citation screening and risk of bias appraisal in systematic reviews: evaluations of Abstrackr and RobotReviewer“, Monday 17th September, 15:10pm, Carrick 1*
	+ Internal methods working group projects
		- LOCATE: Leveraging Ongoing Citation Acquisition Techniques for Evidence Synthesis
		- SELECT: Screening Efficiently Leveraging Emergent Classification Technologies
	+ Cochrane Living Evidence Network, Member
* Overviews of Reviews
	+ Workshops at colloquium and international conferences
	+ Handbook Chapter: led the revision of the chapter on overviews for the Cochrane Handbook of Systematic Reviews of Interventions (currently with editors)
	+ Development of Overviews reporting guidelines - ongoing
	+ Conducted and published methods research on overviews:
		- “[Evaluation of AMSTAR to assess the methodological quality of systematic reviews in overviews of reviews of healthcare interventions](https://www.researchgate.net/publication/315597687_Evaluation_of_AMSTAR_to_assess_the_methodological_quality_of_systematic_reviews_in_overviews_of_reviews_of_healthcare_interventions?ev=auth_pub)”, BMC Medical Research Methodology, 2017, 17:48
		- Trainee Thesis: “Advancing Methods for Overviews of Reviews of Healthcare Interventions”, available at: <https://era.library.ualberta.ca/items/df8da21e-ae75-41c5-8d88-8d6aeba0cfb2>

**CAPACITY BUILDING/TRAINING**

* Developed Evidence in Child Health Award: Competitive training internship position for a candidate from a low-middle income country
	+ Cochrane Review Title proposal draft under development
	+ Topic: Utility of point-of-care diagnostics in children with Sickle Cell disease.
* Summer student projects
	+ KT summary products
* CCH Directors and Advisory Board members delivered a number of lectures, presentations, and workshops at local, national, and international events on evidence synthesis and KT methods.
* CCH Directors are actively involved with graduate and clinical trainees within their respective local institutions.

**NETWORK BUILDING**

* Established presence within the Cochrane Children and Families Network
* Establishing connections with CRGs for KT products and dissemination of reviews on social media
* Attended local and international conferences relating to child health
* Community resource tables at local conferences to share and distribute CCH materials and Cochrane evidence
* Field collaborations – took part in a collaborative quality improvement field exercise
* Alberta Strategy for Patient Oriented Research Support Unit methods working group projects
	+ Best practices for dissemination of research via social media
	+ Storytelling as a patient engagement tool
* Actively involved in three Cochrane Knowledge Translation Working Groups
	+ Growing capacity in our users
	+ Upscale and improve existing products
	+ Internal capacity and infrastructure
* Actively involved with KT Advisory Group
	+ Member, KT Advisory Group overseas all of the working groups.

**FUTURE DIRECTIONS**

* Currently we do not have dedicated funding
	+ Partial funding for the CCH Program Manager position has been secured for a further year to support our *core* field activities.
* We plan on prioritizing work efforts around core activities
	+ Prioritization and co-production
		- Supporting the production of reviews which meet the needs of our users
		- Linking with the Cochrane Children and Families Network and associated CRGs
		- Tagging child health relevant Cochrane reviews
	+ Packaging, push and support to implementation
		- Ensuring users receive (social media, E4C, Cochrane Corners) and can act on our reviews and products
	+ Facilitating pull
		- Growing our users’ capacity (training, teaching, advocating) to find and use our reviews.