
Introducing “Visual bibliographies” as a novel tool for communicating complexity: a knowledge translation case study from Aboriginal and Torres Strait Islander primary health care research

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2 **communicating complexity: a knowledge translation case study from**
3 **Aboriginal and Torres Strait Islander primary health care research**

4

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43

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44 **Abstract**

45 **Background:** Effective knowledge translation ensures health care research
46 has desired impacts – this is particularly important for Indigenous
47 communities who have historically not benefited from research about and
48 on them. Yet much knowledge translation in Indigenous contexts continues
49 without community partnerships and disregards Indigenous values,
50 languages and knowledge-sharing practices. Visual approaches can be
51 engaging knowledge translation strategies that align with Indigenous
52 knowledge translation traditions and amplify Indigenous perspectives. In
53 this paper, we introduce a new tool we have coined a “Visual Bibliography”
54 for knowledge generation and translation, developed within a large-scale,
55 participatory research collaboration in Aboriginal and Torres Strait Islander
56 health services.

57

58 **Methods**

59 This case study explores the collaborative invention and development of the
60 Visual Bibliography. Through a participatory process with Aboriginal and
61 Torres Strait Islander and non-Indigenous members of the research
62 collaboration, we synthesized and analyzed 92 research outputs – e.g.,
63 academic publications, reports, policy briefs – published by our
64 collaboration focused on quality improvement in Aboriginal and Torres
65 Straits Islander primary health care. Findings informed conceptual
66 metaphors, infographics and other imagery that we combined into a single
67 document that serves as a reference to all research outputs and
68 communicates the values and history underpinning our collaboration.

69

70 **Results**

71 Analysis and artistic experimentation with deep consideration of
72 representation were combined to create the Visual Bibliography. Our
73 process carefully balanced scientific accuracy with engaging depictions to
74 convey complex, intersecting ideas which both communicate knowledge and

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75 generate new insights into health services research. The process itself
76 fostered integrative knowledge translation and enabled participants to
77 locate their contributions within a broader system of knowledge production.

78

79 **Conclusion**

80 We believe the Visual Bibliography has broad potential within and beyond
81 Indigenous knowledge translation contexts. It provides a tool for
82 participatory co-creation, especially as part of an overarching embedded
83 program of knowledge translation that can be responsive to Indigenous (and
84 non-Indigenous) communities' preferences for knowledge mobilization. By
85 communicating complexity meaningfully and engagingly, it helps address a
86 significant gap in knowledge translation.

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88 **Background**

89 Health services research that results in benefits for Indigenous communities
90 happens when Indigenous community members lead that research, or, are
91 actively involved in its creation [1]. Research led by and with Indigenous
92 communities facilitates the selection of research questions and priorities
93 meaningful to that community, protocols that better uphold their local
94 values, culture, and strengths, and thus, produces knowledge that is better
95 translated into meaningful practice [2]. Despite this, Indigenous health
96 continues to be produced without partnerships with communities [3], and
97 within in Euro-Western paradigms that disregard or de-emphasize
98 Indigenous values, languages and knowledge-sharing practices [1].

99
100 Knowledge translation is essential in ensuring research is converted into
101 action and benefit. Knowledge translation is a complex process in which
102 ideas, learnings, and ways of knowing are generated, shared, interpreted
103 and applied throughout research endeavors [4]. From initial
104 conceptualization to end-of-project outputs to actions and impacts that
105 extend beyond the life of a single project, knowledge translation is most
106 successful when it is embedded into the entire research lifecycle and is an
107 active component of producing research. In Australia, knowledge
108 translation is considered a foundation of ethical research with Aboriginal
109 and Torres Strait Islander communities as articulated in many research
110 guidelines [5,6]. Knowledge translation that is meaningful, accurate and
111 reported back to communities involved in the research helps ensure that
112 research is beneficial to those communities. It also attends to a legacy of
113 research done to Indigenous communities that is and was exploitative,
114 taken without respect or care for their wellbeing or benefit [1,7].

115
116 Effective knowledge translation for Aboriginal and Torres Strait Islander
117 communities, as defined by Aboriginal and Torres Strait Islander peoples,
118 includes that knowledge translation must be relevant to community needs

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119 and ways of mobilizing knowledge, embedded in research to address
120 community priorities, and planned and evaluated in ways that reflect
121 communities' definitions of success [2]. Traditional research knowledge
122 translation approaches – academic papers, conference presentations, etc. –
123 often fail to meet Aboriginal and Torres Strait Islander communities' needs
124 and ways of knowledge sharing, as well as the needs of Indigenous
125 communities' needs more broadly. Instead, mechanisms such as
126 storytelling, art, and visual methods are often more effective, interesting
127 and culturally responsive [1,2,8].

128
129 The use of visual elements constitutes some of the most engaging types of
130 translation products. Visual tools can make complicated stories accessible,
131 immersive, and provide rich detail. Visual communications are inviting,
132 reinforce meaning and facilitate memorability [9]. Recent research in
133 Indigenous and Aboriginal and Torres Strait Islander knowledge translation
134 underscores the value, desirability and effectiveness of visual knowledge
135 translation products, e.g., visual storytelling, art, photos, infographics [2,3].
136 Visual forms of communication developed with leadership or collaboration
137 from Indigenous peoples may be a good fit for the communication needs and
138 preferences of some communities versus traditional research outputs.
139 Ultimately, effective and respectful knowledge translation with Indigenous
140 communities is rooted in respectful relationships that uphold community
141 rights, and adopting a broader scope of research translation tools is one of
142 several needed approaches.

143
144 Our purpose in this paper is to introduce an innovative visual tool for
145 knowledge generation and translation that we developed in the context of a
146 large-scale research collaboration involving Aboriginal and Torres Strait
147 Islander health services. The tool is called a "Visual Bibliography," and was
148 developed to facilitate research translation to a variety of audiences,
149 including Aboriginal-controlled health organizations, community

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150 organizations and their representatives, and other researchers working in
151 this space.

152

153 *Introducing visual bibliographies*

154 The purpose of developing the “Visual Bibliography” concept was to
155 summarize a broad, diverse body of evidence in an appealing and useful
156 way. To our knowledge, we are the first to define the idea and coin the term
157 of the “Visual Bibliography” in the peer-reviewed literature as searches on
158 Google Scholar and PubMed yielded no sources. A few sources have used
159 the language “visual bibliography” to refer to visual catalogues of art or
160 books [10,11] or as a synonym for bibliometric analyses that provide
161 infographic-type summaries of meta-level data on a topic (i.e. number of
162 sources, dates of publications, authors or nationalities represented, etc.)
163 [12]. However, we go further to conceptualize a Visual Bibliography as a
164 detailed, interactive teaching tool that provides deep insight into its topic –
165 even possibly generating new insights through its creation. Like a
166 bibliography, a Visual Bibliography is made up of collated sources on a
167 specific topic. Like an annotated bibliography it also provides information
168 on the content of those sources. The content, however, is highly curated,
169 interpreted, and represented to produce an interactive and generative
170 experience that supports knowledge translation.

171

172 Our development of a Visual Bibliography stemmed from our experience
173 with the systems thinking tool called “rich picture,” a visual device used to
174 depict a complex system [13]. A Visual Bibliography goes beyond simply
175 depicting the content of a source (as an infographic might) to tell a complex
176 story or stories. It aims to embrace complexity rather than simplifying
177 information. Therefore, it has the potential for many applications: from
178 providing an introduction to a complex topic to knowledge translation. A
179 Visual Bibliography does this by acting as a map in that it provides a big-
180 picture perspective of a topic that is made up of smaller, specific, detailed

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181 pieces of information. It uses visual techniques to communicate complex
182 ideas that will be applicable for translating the complexities of research into
183 practice. It is a wayfinding tool that helps orient a viewer to a particular
184 topic area. There are multiple points of entry in which viewers can interact
185 with and apply information in myriad ways, so there is no single way to
186 approach reading or using it. This allows it to have multiple benefits as a
187 knowledge translation tool, and be useful for different audiences and
188 purposes.

189

190 In Table 1, we provide an overview of steps and considerations for creating
191 a Visual Bibliography. We reference the table throughout the remainder of
192 the paper as we describe our methods and results, offering insights,
193 explanations, and examples for others interested in creating a Visual
194 Bibliography for their own contexts.

195

196 [Insert Table 1 about here]

197

198 **Methods**

199 *Step 1. Identify the overarching purpose of the Visual Bibliography and the*
200 *values underlying the work: Our context*

201 This case study describes the collaborative development and creation of a
202 Visual Bibliography to facilitate knowledge translation. As outlined in Table
203 1, the first step is to clarify the purpose and values underlying the work to
204 be represented in the Visual Bibliography, including whose voices will
205 contribute to its creation. Our initiative occurred within a long-standing
206 research collaboration in Aboriginal and Torres Strait Islander health
207 services research. The Centre for Research Excellence in Integrated Quality
208 Improvement (CRE-IQI) (2015-2019), was funded by the National Health
209 and Medical Research Council of Australia. The CRE-IQI's purpose was to
210 improve Aboriginal and Torres Strait Islander health outcomes through

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211 research supporting continuous quality improvement (CQI) initiatives aimed
212 at strengthening system-wide primary health care [14].

213

214 The collaboration consisted of Aboriginal and Torres Strait Islander and
215 non-Indigenous members (hereafter referred to collectively as 'CRE
216 members' or 'members') representing multiple levels of the health system,
217 including researchers, policy officers, health service providers and
218 practitioners and community members. CRE-IQI was co-governed by
219 Aboriginal and Torres Strait Islander researchers and practitioners, and
220 non-Indigenous researchers and staff. The governance and operation of the
221 CRE-IQI strongly focused on collaboration, coproduction and power shifting
222 from non-Indigenous to Indigenous research leadership, as reflected in
223 project leadership arrangements, authorship and participation in CRE-IQI
224 events over the five-year grant period. Governance committees oversaw
225 everyday operations, strategic directions, and an overarching evaluation
226 plan through which the Visual Bibliography work took place [15,16]. As
227 such, the creation of the Visual Bibliography was responsive to needs the
228 governance committees identified as priorities for the overall CRE and its
229 members. The team that then conceptualized, developed, and created the
230 Visual Bibliography included both Aboriginal and non-Indigenous CRE-IQI
231 members, and their contributions and roles are detailed in the authors'
232 information section (at the end of this paper). The development process was
233 participatory and included the broader CRE membership at multiple points;
234 these processes will be further described throughout the methods.

235

236 The CRE-IQI has published numerous papers detailing our core principles
237 and approaches to collaborative work [17] and evaluating the effectiveness
238 and lessons from these approaches [16,18,19]. Integrated knowledge
239 translation was a cross-cutting theme of the CRE-IQI and significant
240 resources, including a dedicated position, were dedicated to its
241 implementation across all work streams. Multiple types of knowledge

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242 translation products were developed across the life of the CRE to facilitate
243 translation and uptake of research findings from 6 flagship projects, 12
244 aligned priority projects, and other research activities including numerous
245 interactive workshops, a center-wide evaluation, and other complementing
246 projects. At the time the final report was published in 2020, the products
247 included 92 peer-reviewed publications, 7 policy/parliamentary submissions,
248 26 newsletters, 27 technical reports, 81 conference presentations, and 2600
249 responses received through an interactive data dissemination process to
250 identify gaps and priorities to improve care [18].

251

252 *Step 1, continued: Our research purpose*

253 Most publication and dissemination outputs reported content from the
254 individual CRE-IQI projects in which they were generated. A few cross-
255 project research outputs were generated via the overarching evaluation and
256 some policy documents; however, it was considered important to
257 communicate the breadth of the work produced by the CRE and how the
258 individual projects related to one another – preferably through a single
259 resource where audiences could learn about and easily access the entire
260 suite of CRE research outputs.

261 An important benefit of producing research within the CRE was the
262 supported collaboration among a diverse network of over 85 contributing
263 organizations who met at CRE-hosted biannual meetings and networking
264 events. These activities facilitated active research translation among the
265 network, resulting in knowledge sharing that facilitated idea spread,
266 advancement and uptake of new research collaborations. Although peer-
267 reviewed research outputs generally addressed specific research aims in
268 line with clearly defined projects, in practice, knowledge was actively
269 diffusing across projects, informing research approaches and advancements
270 across the CRE and contributing to a broader body of work. As we've
271 written elsewhere, “the knowledge generated by the CRE-IQI was not solely

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272 contained in the written publications, but was created, embodied and
273 enacted among the members of the collaboration as they worked together
274 to produce research” [20]. We wanted our knowledge translation resource
275 to demonstrate this knowledge as a system, as more than the sum of the
276 parts, produced through our values and ways of working.

277 Our purpose in creating a “Visual Bibliography,” therefore, was to provide a
278 single resource with all research outputs from the CRE to educate users
279 about the breadth of our research and impact. Additionally, it was important
280 to our collaboration that we communicate the values guiding our work
281 including working in partnership, respecting the past and present
282 experiences of Indigenous people, ensuring Indigenous leadership and
283 others [15]. Enduring partnerships are another guiding value and unique
284 aspect of our work that we wanted to depict and helped guide our decision
285 to reflect our work using imagery.

286 *Step 2. Define boundaries and identify sources of evidence: Our focus*
287 Our interest in developing a Visual Bibliography was to compile and
288 communicate information about a complex and diverse work program that
289 consisted of multiple projects. Therefore, the scope - or “boundary” - of our
290 Visual Bibliography was broadly defined (see Step 2 in Table 1) to include
291 all projects authors self-identified as being part of CRE-IQI (even if they
292 were not funded by CRE-IQI). Given the breadth of our products, however,
293 we limited our sources to the 92 peer-reviewed publications, but
294 complemented this academic knowledge with lay-knowledge in a
295 participatory process (described below).

296

297 *Step 3. Review sources: Our analysis process*

298 While there are many ways to conduct a synthesis and analysis of content
299 for the Visual Bibliography, we combined several approaches to analyzing
300 our sources. As described in Step 3, the greater the understanding, the

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301 greater the complexity that can be represented. We undertook an in-depth
302 synthesis and analysis of all peer-reviewed publications from the CRE-IQI
303 published between 2014-2019. We developed a co-produced synthesis
304 process in which a team of Aboriginal and Torres Strait Islander and non-
305 Indigenous CRE members conducted a structured review and synthesis of
306 these publications. The synthesis was then used in a participatory workshop
307 with 23 CRE members who conducted further analysis to organize research
308 and generate overarching findings statements for our final report. The
309 methods and findings of the structured and participatory synthesis are
310 reported in detail elsewhere [20].

311
312 In brief, first a small group of CRE members undertook a review and
313 synthesis of all the published research outputs of the CRE-IQI (n=77). The
314 group, comprising Aboriginal and Torres Strait Islander and non-Indigenous
315 researchers, captured information from sources about topics, CRE-IQI aims
316 addressed by the sources, key messages and findings, source type, and
317 others. Subsequently, a participatory synthesis workshop involved 33 CRE
318 members in reviewing, discussing and generating key messages for
319 dissemination, published in a final report [18].

320
321 *Steps 4-8. Developing the visual bibliography: Iterating ideas, metaphors,*
322 *and visuals*

323 Although several steps in Table 1 are iterative, the development of the
324 visuals is especially so. Developing the visuals for the bibliography involves
325 multiple steps including developing an organizing schema, interpreting
326 these schemas as metaphors and stories, prototyping the map, developing
327 the artwork, and seeking feedback with alternative interpretations. We
328 briefly introduce our process here, provide more guidance in Table 1, and
329 describe our outcomes in greater detail in the Results.

330

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331 We collectively analyzed synthesis data for key messages, values guiding
332 decisions and priorities/recommendations for next steps, and kept notes and
333 sketches of overarching themes and ideas that extended across sources.
334 The data collected and generated from the synthesis process was used to
335 develop the Visual Bibliography. Aboriginal and Torres Strait Islander
336 people were involved at all points in the development of the Visual
337 Bibliography, including in developing and publishing many of the sources,
338 conducting the initial literature syntheses and participatory review,
339 providing feedback on the Visual Bibliography and in the authorship of this
340 paper (see author information).

341
342 After developing various sketches, we used PowerPoint to develop an initial
343 prototype, with clipart icons as temporary placeholders that could be
344 disseminated for feedback (See Figure 1). This draft was presented in a
345 workshop to the CRE-IQI at a biannual meeting in late 2019 for comment
346 and feedback. Fifty-five members reviewed the draft and provided critical
347 feedback on resonant and problematic metaphors in an interactive
348 workshop. Participants viewed the prototype, identified areas of confusion
349 and offered interpretations of the depictions used that were helpful in
350 assessing whether the imagery and metaphors were problematic or
351 communicating the messages we intended. Those who provided written
352 feedback following the workshop, and who are quoted in this paper, gave
353 written permission for their quotes to be used.

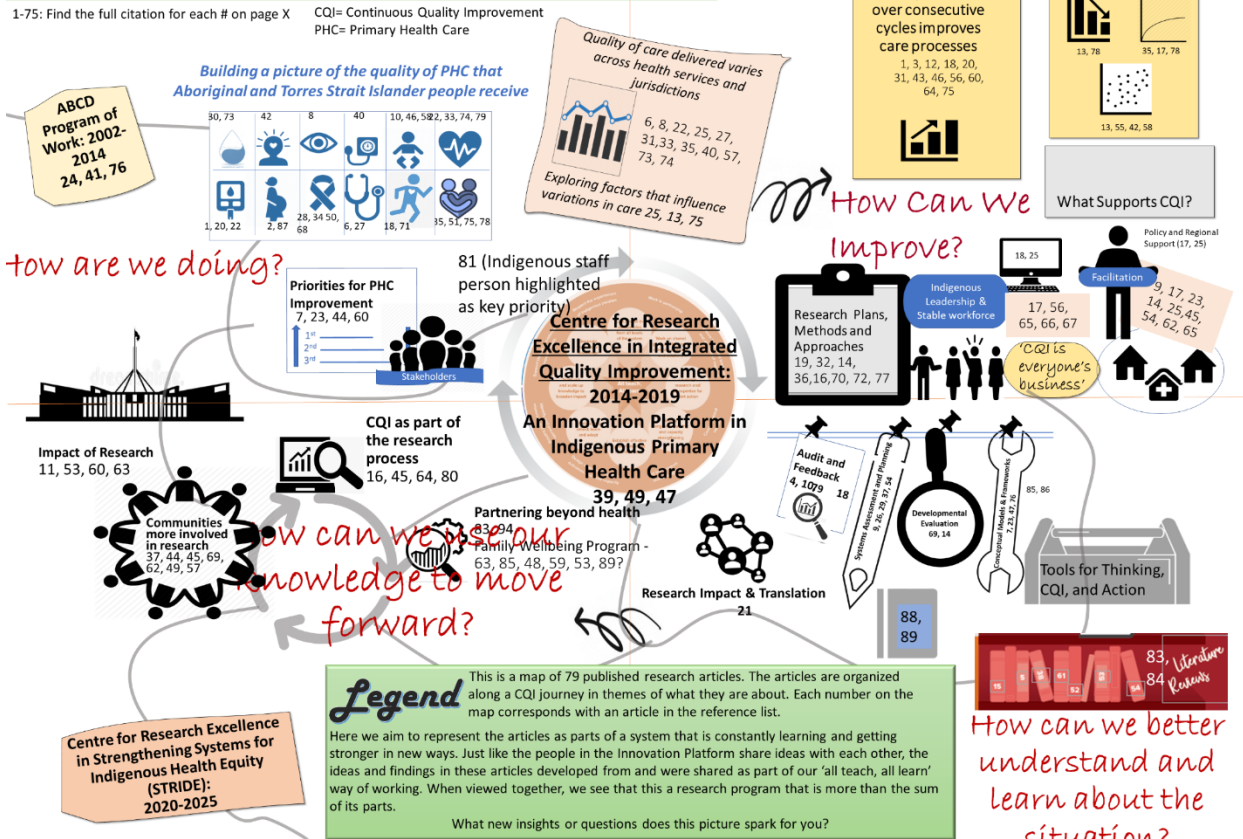
354

355 [Insert Figure 1 about here]

356

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A visual bibliography and map to our research



357
358 **Figure 1: Draft rendering of the Visual Bibliography developed in**
359 **PowerPoint, for presentation to collaboration participants for**
360 **feedback**

361
362 After we felt confident that the metaphors and imagery we selected were a
363 good fit for the story we wished to communicate, we employed a graphic
364 artist to develop the finalized product. We provided the draft we created
365 and developed a design brief that provided a detailed description of the
366 content and metaphors we wanted to visually represent. Multiple iterations
367 of design and review were undertaken before the final product.

368
369 *Steps 9-10. Finalizing, disseminating and evaluating*

370 Our final Visual Bibliography is available in a printable version where a list
371 of publications that correspond to the numbers is included on the back. It is
372 also offered as a web-accessed or downloadable e-file where clicking on the

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373 number will directly link users to the online publication record [18]. The
374 bibliography was published and disseminated as part of our final report and
375 sent to a range of users including researchers, Aboriginal community-
376 controlled health organizations, policy makers, and community members.
377 Peer-review articles and other research outputs continued to be published
378 during and after the synthesis processes were undertaken. Because we
379 wanted the Visual Bibliography to be as comprehensive as possible, we
380 incorporated newer publications into the design by mapping them to the
381 organizing themes developed through the process described above. The
382 final Visual Bibliography included a total of 92 sources, including 90 peer-
383 reviewed publications and 2 books.

384

385 We sought informal feedback on the Visual Bibliography by asking research
386 partners and CRE-IQI participants and investigators about how they have
387 used the tool since its publication. However, a formal evaluation of the
388 Visual Bibliography was beyond the scope of this project.

389

390

391 Results*392 Presenting our Visual Bibliography*

393 The Visual Bibliography of the CRE-IQI is presented in Figures 2 & 3. The
394 map depicts an overall story, or journey, of the CRE-IQI including the
395 collaboration grants that preceded and succeeded it. The main contents are
396 the citations of the 92 CRE-IQI research products. Like a bibliography, each
397 citation is numbered and its corresponding citations can be found in a
398 reference list. Additionally, each number is hyperlinked directly to the
399 online publication. The citations are organized by interrelated themes and
400 subthemes that reflect the overall focus of the CRE-IQI, e.g., CQI research
401 aimed at health system improvement. The main themes include:

- 402 1) how well (or not) primary health care is delivered for Aboriginal
403 and Torres Strait Islander peoples on a range of health topics,

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- 404 including cancer care, child health care, cardiovascular disease
405 care, and more;
- 406 2) research documenting and evaluating how CQI has been applied to
407 improve primary health care services and illustrates key findings
408 about what factors support successful CQI (i.e., Indigenous
409 leadership, facilitation, information systems, and supportive
410 contexts);
- 411 3) how to learn about or study improvement including conceptual
412 models and frameworks developed within the collaboration,
413 developmental evaluation, and tools for conducting CQI; and
- 414 4) using knowledge to move forward including articles that apply
415 knowledge for action and impact, research about community
416 involvement in research, intersectoral partnerships, and impacting
417 policy and practice.

418

419 It is intended that users can interact with the map to learn about the overall
420 themes addressed by CRE-IQI research, learn key influential findings that
421 extend across projects, and simultaneously find and easily locate specific
422 articles on topics of interest within those themes. For example, a user
423 interested in quality improvement may learn about how ongoing CQI efforts
424 result in improvement in health outcomes, and then locate articles that
425 detail specific evidence-based facilitators. Or they may come to the Visual
426 Bibliography looking for a citation on maternal health care statistics for
427 Aboriginal and Torres Strait Islander peoples, and likewise find linkages to
428 articles on infant and child health. Additionally, the map is also meant to
429 provide an overview of the CRE's work over time and ways of working.

430

431 [Insert Figure 2 about here]

432 [Insert Figure 3 about here]

433

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434 In the next sections, we describe findings and learnings from our process of
435 developing the Visual Bibliography, providing more insights behind the
436 guidance outlined in Table 1.

437

438 *Defining the Purpose and Scope of Work (Steps 1-3)*

439 We found that developing the imagery and metaphors for the Visual
440 Bibliography was enhanced by our deep knowledge of the sources. Through
441 the in-depth synthesis process described above, our team became deeply
442 knowledgeable about the content, findings, and methods used for all
443 sources. We were able to draw on this knowledge to inform the organization
444 and visual connections between sources, and to develop teaching
445 metaphors.

446 Although we tried to include all research outputs, we were still challenged
447 to establish boundaries for the Visual Bibliography. As previously
448 mentioned, our work was undertaken in a network of researchers whose
449 work benefited from and was informed by the integrated knowledge
450 translation program. Their work may have been informed by the CRE-IQI,
451 but may not have been specifically tagged as “affiliated” with the CRE. We
452 choose to omit some research outputs that may be of value such as policy
453 briefs, webpages, toolkits, and others. As described above, research outputs
454 continued to be published during the development of the visual. As much as
455 possible, we tried to include all research publications available at the time
456 of developing the publishing the Visual Bibliography, but publications
457 occurred after its completion and are still forthcoming at the time of (and
458 including) this manuscript. Therefore, even this large, comprehensive work
459 was in some ways incomplete.

460 *Developing the visuals (Steps 4-6)*

461 Developing the visuals, including an organizing schema, metaphors and
462 developing main themes required both artistic and scientific processes. It
463 was artistic in that we sketched, colored, imagined, brainstormed and

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464 otherwise trialed many different visual renderings to explore the many
465 options through which we could present the information. It was scientific in
466 that it was a systematic process of reviewing, documenting, and re-
467 reviewing articles to ensure their main findings were accurately
468 represented and interpreted in the metaphors used. In an iterative fashion,
469 we reviewed sources, trialed various organizing schemas, stories and
470 visualizations to identify and depict the main themes. We found that we
471 needed to experiment with a variety of visualizations that might help us best
472 display all the research outputs in relation and conversation to one another
473 in a visual format.

474
475 Given the focus of the CRE's work on quality improvement, a CQI cycle [21]
476 - "plan, do, study, act" - was determined to be a useful overall organizing
477 schema depicting both the kinds of research we produced and our overall
478 commitment to working as a learning system. Therefore, each quadrant of
479 the bibliography corresponds with a step of the cycle. The main themes and
480 subthemes, as described above, are organized within this overarching
481 schema. In addition to depicting sources linked to each subtheme, we also
482 incorporated different visual techniques to communicate more detailed
483 information about the sources. For example, we used icons to depict topic
484 areas of substantial baseline research on a range of health issues; hardware
485 tools and books symbolized CQI tools and resources developed by the
486 collaborative; and cartoon-like images to represent people in a neutral, but
487 representative way.

488
489 Zooming out, the Visual Bibliography also encompasses a pathway to denote
490 the long-standing work of the collaboration that preceded the CRE-IQI and
491 provided the foundation for the trusting relationships on which the CRE-IQI
492 was built; it was important to CRE members to represent these features
493 [17]. The pathway travels through each quadrant whilst encircling the CRE-
494 IQI logo in the center, and is surrounded by its guiding motto: "All teach, All

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495 learn” [22]. This motto elevates the value we place on mutual learning.
496 Finally, the path continues into the future reflecting the next iteration of the
497 collaboration in the Aboriginal-led Centre for Research Excellence:
498 Strengthening Systems for Indigenous Health care equity (CRE-STRIDE)
499 2020-2024. The color scheme, central icon, and other design elements are
500 drawn from CRE-IQI branding used in logos and reports.

501
502 We found that visual imagery allowed for the use of multiple, overlaying
503 schematics, while at the same time enabling a product that could be read
504 without a legend and accompanied by only a brief description at the top.
505 The placement of outputs could be used to tell stories within stories, e.g.,
506 items grouped by topic within an overarching key message. We grappled
507 with the placement of items in relationship to one another, especially
508 because items often could fit into more than one category. We placed
509 articles with conflicting or supporting findings near each other, and used
510 the pathway metaphor to illustrate ideas for future research.

511

512 *Prototyping and Finalizing the Design (Steps 7-9)*

513 Overall, feedback from CRE-IQI members during the interactive workshops
514 was positive. Edits suggested by attendees involved making the overall feel
515 and aesthetic better represent Aboriginal and Torres Strait Islander people
516 and design. There were also edits to images and wording that more
517 accurately reflect the research findings, and specific recommendations
518 about what content to prioritize. For example, a strong research outcome
519 across our program of work was evidence that sustained use of CQI is
520 associated with improved delivery of best-practice care. Twelve articles
521 supported this statement, but two articles found that CQI improvement
522 plateaued over time and five articles showed ambiguous effects. We
523 originally presented these articles together in a generalized category
524 outlining variations in the impact of CQI on practice (as shown in Figure 1).
525 Yet our members agreed that the evidence supporting sustained CQI

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526 delivery was strong, and so we chose to emphasize this message while less
527 prominently acknowledging variations found among a small number of
528 scientific studies (as shown in Figure 2). Similarly, participants
529 recommended highlighting enabling factors for CQI by naming them in the
530 visual rather than aggregating them under an overarching heading.

531

532 *Dissemination and Feedback (Step 10)*

533

534 Overall, we received positive feedback from partner organizations who were
535 sent the tool as part of our dissemination. Additionally, we have heard from
536 external organizations who learned of the tool through CRE-IQI members.
537 Several users described posting the resource in their office as a tool to
538 quickly find needed citations. In addition, the idea has been taken up by
539 other organizations as a tool to communicate their complex data. For
540 example, a partnering Aboriginal-controlled community health organization
541 emailed us the following feedback:

542 *The concept of a continuous visual (or lifelong) story, as depicted in*
543 *the Visual Bibliography, is appealing to us as a way of representing*
544 *our five-year compilation of child health data ... We notice that those*
545 *that take the time to review [our] data report seem to concentrate on*
546 *singular items where they, their team, or organisation have done well.*
547 *We need to put the pieces together in a way that our staff and our*
548 *partners from government and non-government agencies can see the*
549 *entire picture and how data are interrelated... With our next five-year*
550 *data report, we will draw on the Visual Bibliography idea to create a*
551 *visual story at the same time, and release both publications*
552 *simultaneously.*

553 The organization found value in the Visual Bibliography approach as a tool
554 to present research findings as a comprehensive picture that can both
555 celebrate successes and facilitate discussion on areas of improvement.

556

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557 The evaluation team from another Centre of Research Excellence described
558 its value in communicating complexity. They said:

559 *The Visual Bibliography is an engaging document that provided us*
560 *with inspiration for how to approach our own Centre for Research*
561 *Excellence evaluation. We regarded the Visual Bibliography as a tool*
562 *to frame complex and inter-related research outputs in a clear and*
563 *easily understood format that could demonstrate the value and*
564 *meaning of the research in context. ... We have adopted a similar*
565 *thematic process to frame our research impact.*

566

567 Finally, members of the CRE-IQI themselves described how useful it was to
568 be involved in the process of making the Visual Bibliography. As previously
569 discussed, the CRE was made up of many researchers and organizations,
570 each with their own specialty, focused projects, and remits. The goal of our
571 integrated knowledge translation work was to facilitate connections among
572 these various entities, demonstrating and facilitating linkages between
573 research topics and activities. While we undertook various knowledge
574 translation activities to this end, the participatory workshops to develop the
575 Visual Bibliography also facilitated intra-CRE knowledge translation. As one
576 CRE member said:

577 *Participating in the development of the CRE-IQI Visual Bibliography is*
578 *one of the most useful research collaboration activities that I have*
579 *been involved in... As a multi-disciplinary researcher, I often feel*
580 *isolated because it is not always easy to see where my research fits*
581 *within a specific discipline. I found that in developing the CRE-IQI*
582 *Visual Bibliography it was clearer that my research not only was a*
583 *good fit for the CRE-IQI, but the visualization also showed me exactly*
584 *where it fits in relation to the other research within the CRE-IQI.*

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585

586 **Discussion**

587 The case of the “Visual Bibliography” holds promise as an innovative tool
588 for facilitating knowledge translation in Indigenous health research
589 contexts, and we believe it has application for broader use for other
590 research groups that similarly produce complex and diverse research
591 outputs.

592

593 Conducting a full evaluation of the Visual Bibliography’s effectiveness as a
594 translation tool was beyond our scope, and we hope that by sharing this
595 idea, future research and evaluation of this and other novel translation tools
596 will be possible. Early feedback, however, demonstrates that other
597 organizations find value in its ability to present research findings in a way
598 that retains complexity. This is of particular importance because science
599 communication guidelines emphasize simplified messages, focused on
600 particular target groups [23,24]; while clear and directed, this form of
601 communication risks being reductionistic, reducing complexity instead of
602 better enabling audiences to grapple with it. Emerging research suggests
603 that engaging audiences in complexity may help people better understand
604 the limits of science and increase credibility and trust of scientists [25].
605 Narratives have been frequently used as a tool to present complex issues,
606 but concerns with narrative approaches is that it reduces audience
607 engagement with numbers and statistical findings [26]. Visual
608 bibliographies may attend to this issue by presenting both a narrative
609 alongside numerical information interwoven into the storyline.

610

611 Another promising benefit of the Visual Bibliography is as a tool of
612 *integrated* knowledge translation, i.e. facilitating active collaborative
613 research between researchers and end-users [27]. The Visual Bibliography
614 was a useful complement to our overall suite of knowledge translation
615 activities by demonstrating our diverse work outputs as part of a broader

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616 system of research aimed at healthcare improvement. Thus, it helped
617 Aboriginal and Torres Strait Islander and non-Indigenous members within
618 our network see how their contributions are linked to and complement each
619 other. Generating these insights may be fruitful for new collaborations and
620 linkages that could attend to cross-disciplinary or cross-sector problems by
621 enabling research partners to better understand how their work connects to
622 systemic issues.

623
624 Creating the Visual Bibliography via a participatory process also facilitated
625 these insights by engaging researchers and community partners, including
626 both Aboriginal community members and Aboriginal people in service
627 provider roles, in direct conversations about linkages between work
628 programs and implications for the field. While it may be possible for one
629 person or a small team to create a Visual Bibliography, we feel that its value
630 is fully realized when part of a participatory approach; this theory is
631 supported by research demonstrating the effectiveness of more active forms
632 of knowledge translation over passive forms [28]. As previously described,
633 participatory and co-production activities that are led by or with Aboriginal
634 and Torres Strait Islander communities - including service providers and
635 researchers - are core to respectful, effective, and meaningful co-
636 production with those communities [1,2,29] and we believe our process
637 illustrates this kind of successful co-production. Other studies of the CRE-
638 IQI co-production and power-shifting models of research (in which the
639 Visual Bibliography was undertaken) underscore the success and learnings
640 of our approach [16,19]. Further, participatory approaches to knowledge
641 translation are increasingly recognized as a best practice approach for their
642 ability to improve the value, acceptance and application of science in
643 practice [30]. More research and innovation are needed, however, on
644 methods that truly facilitate equal partnership between researchers and
645 various audiences. We offer the Visual Bibliography tool as one approach
646 that may help fill this gap.

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647
648 Challenges we encountered in developing the Visual Bibliography centered
649 on prototyping and trialing imagery. We found generating visuals of our
650 findings could yield unintended, confusing or undesirable interpretations. A
651 benefit of using visual imagery is that its ambiguity can allow audiences to
652 better see themselves as part of the art, and to engage with and derive their
653 own meanings. But this ambiguity could be perceived as a risk to science
654 communication. Therefore, a balance needs to be struck between offering
655 enough ambiguity in imagery that various audiences can find value in the
656 Visual Bibliography as a useful tool for their varying purposes, while also
657 ensuring clear communication around research findings to reduce
658 misinterpretations. In our case, we addressed this problem by representing
659 our research at a generally descriptive level coupled with clear statements
660 about important findings.

661
662 Another challenge was that, as (mostly) non-artistic researchers,
663 communicating our vision for an artistic rendering to an outside artist was a
664 challenge. In our experience, graphic facilitators seem well-attuned to this
665 task given their familiarity with depicting ideas as a system. In other
666 projects we had engaged graphic facilitators earlier in the process by
667 including them in workshops where they could be part of and become
668 embedded in the context and meaning-making work. We did not have
669 sufficient resources, however, to involve them earlier in this project.
670 Therefore, it was important that we be as clear as possible about how the
671 visual should look and have most of the visualization ideas already mapped
672 out. Involving an artist earlier on may have reduced the amount of revisions
673 we undertook. As such, without their early involvement it was important to
674 devote resources to revising and seeking feedback to ensure key messages
675 accurately were conveyed.

676

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677 A final, and important, area for improvement is that this work is part of an
678 ongoing process of shifting leadership to Aboriginal and Torres Strait
679 Islander researchers in our context. While we worked in close partnership
680 to develop, test, refine and disseminate the Visual Bibliography, ideally,
681 future work will - and is being [31,32] - led by Aboriginal peoples
682 themselves. In other CRE-IQI projects we employed Aboriginal artists to
683 create iconography that could be incorporated into visual products and to
684 develop knowledge translation outputs [33], though that was out of scope
685 for this project. Moving forward, we include line-items in our grants and
686 contracts for hiring artists to develop knowledge translation. Further, the
687 Visual Bibliography was developed for the wide range of stakeholder groups
688 interested in our CQI research, including Aboriginal Community Controlled
689 Health Organizations. It is a bibliography of a large suite of peer reviewed
690 research papers, so our discussion and dissemination are inevitably
691 researcher and system focused. We provide a tool that our members -
692 including our Aboriginal and Torres Strait Islander members who are
693 researchers, practitioners, and members of their own communities - can
694 use to facilitate research translation to practice and policy that ultimately
695 meets the needs and reflect the priorities of the specific communities they
696 serve. While future research is needed to examine whether the Visual
697 Bibliography effectively achieves this goal, we believe it meets a gap for
698 translation tools that facilitate multi-level and intersectoral knowledge
699 translation necessary for impact [34].

700

701 Conclusions

702 We coin the term "Visual Bibliography" as a visual tool that provides a map
703 to a diverse body of research, produced by a large collaboration in
704 Aboriginal and Torres Strait Islander health care improvement over multiple
705 years. Our intention here is to report on an innovative idea that other large-
706 scale research collaboratives could adopt to disseminate a large body of
707 diverse research, as well as a process for participatory and integrated

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708 knowledge translation with Aboriginal and Torres Strait Islander
709 researchers and service providers who serve their local communities. The
710 Visual Bibliography approach provides a compelling way to tell a story of a
711 research collaboration while providing a resource to research outputs the
712 collaboration produced. It acts as a tool for engagement both in the act of
713 its participatory creation process, and for communicating complexity in a
714 meaningful way that may be adapted to culturally-appropriate knowledge
715 translation for Indigenous communities. We chose to tell a story about the
716 breadth and depth of the new knowledge we created, our publications and
717 outputs, our evolution over time, and our ways of working and values. Other
718 collaborations may wish to tell about their impact, barriers surmounted, and
719 achievements. Or Visual Bibliographies may be used to summarize
720 literature on a complex topic and could be used to complement systematic
721 literature reviews. We believe the Visual Bibliography has many potential
722 applications and is a strategy worth sharing as another tool for knowledge
723 translation.

724

725 List of Abbreviations

726 CRE-IQI: Center for Research Excellence in Integrated Quality
727 Improvement

728 CQI: Continuous Quality Improvement

729

730 Declarations*731 Ethical Approvals*

732 University of Sydney Human Research Ethics Committee (Project 2018/206)
733 and the Human Research Ethics Committee of the Northern Territory
734 Department of Health and Menzies School of Health Research (Project
735 2018-3105). This study was carried out in accordance with relevant
736 guidelines and procedures, including the Declaration of Helsinki and the
737 National Health and Medical Research Council of Australia's guidelines for
738 ethical research with Aboriginal and Torres Strait Islander peoples and

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739 communities. All participants provided informed consent to participate in
740 workshops and partners who provided quotations gave written consent for
741 their quotes to be used.

742

743 *Consent for publication*

744 Not applicable

745

746 *Availability of data and materials*

747 All data generated or analyzed during this study are included in this or
748 linked published articles.

749

750 *Competing interests*

751 The authors declare that this research was conducted in the absence of any
752 commercial or financial relationships that could be construed as a potential
753 conflict of interest.

754

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759 provided by a range of community-controlled and government agencies.

760

761 *Authors' contributions*

762 KC conceptualized the Visual Bibliography, co-developed the methodology
763 and co-implemented all activities and led the writing of this paper.

764

765 AL co-developed the methodology and co-implemented all activities. She
766 reviewed and edited this paper.

767

768 JB provided input into the methodology, participated in the activities and in
769 reviewing and editing this paper.

770

771 VM provided input into the methodology, participated in the activities and in
772 reviewing and editing this paper.

773

774 RB provided input into the methodology, participated in the activities and in
775 reviewing and editing this paper.

776

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784 and the individuals who provided feedback and the quotations herein. The
785 Visual Bibliography was previously published as part of the final report of the
786 CRE-IQI accessible here: [https://ucr.edu.au/wp-](https://ucr.edu.au/wp-content/uploads/2020/02/CRE-IQI-Final-Report.pdf)
787 [content/uploads/2020/02/CRE-IQI-Final-Report.pdf](https://ucr.edu.au/wp-content/uploads/2020/02/CRE-IQI-Final-Report.pdf)
788

789 *Authors' information*

790 KC is a public health researcher with scholarship in systems thinking-
791 informed participatory research methods in health strengthening and policy
792 implementation, particularly in Indigenous health. She is an Associate
793 Investigator of CRE-STRIDE. At the time of this study, she was a CRE-IQI
794 Research Fellow (Grant Writing).

795

796 AL is a CRE-IQI/CRE-STRIDE Research Fellow (Knowledge Translation) who
797 has a long-standing relationship with the collaboration and a strong interest
798 in continuous quality improvement and making health systems more
799 equitable.

800

801 JB was the CRE-IQI Research Fellow (Evaluation) and a leader of the
802 developmental evaluation of the CRE-IQI at the time of the study. She has a
803 long-standing relationship with the collaboration and commitment to
804 improving health outcomes for Aboriginal and Torres Strait Islander people.

805

806 VM is a Quandamooka woman, chief investigator of CRE-STRIDE and a health
807 systems researcher at the University of Sydney. At the time of study VM was
808 a Research Fellow with the CRE-IQI leading analysis of continuous quality
809 improvement audit data.

810

811 RB is a Professor of Rural Health and health services and systems researcher,
812 currently affiliated with Sydney School of Public Health. He is a chief
813 investigator of CRE-IQI and CRE-STRIDE.

814

815 *List of Figures*

816 Figure 1: Draft rendering of the Visual Bibliography developed through
817 PowerPoint, for presentation to collaboration participants for feedback

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818 Figure 2: Visual bibliography of publications produced by the Centre for
819 Research Excellence in Integrated Quality Improvement

820 Figure 3: Visual bibliography reference list. Each number on the visual
821 bibliography is linked to a research output which can be found on the
822 reference list printed on the back, or by clicking on a hyperlink in the PDF
823 version.

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Running Head: VISUAL BIBLIOGRAPHIES

951 Table 1. Steps and advice for creating a visual bibliography

Step	Description
Step 1: Identify the overarching purpose of the Visual Bibliography and the values underlying the work	Consider the purpose of the Visual Bibliography. It might be to provide an introductory overview of a complex topic, to provide insights into a methodological approach or, as in our case, to communicate the broad scope of research outputs developed by a large-scale collaboration. No matter the purpose, the positionality and intentions of the people involved in developing the Visual Bibliography will inform the choices made in generating it. Therefore, including a variety of perspectives - particularly desired end-users - will facilitate access and relevance of the final product.
Step 2: Define boundaries and identify sources of evidence	Define what will be included and what will not. A Visual Bibliography might be used alongside a traditional, systematic literature review as a complementary way to depict findings. But sources need not be limited to published research. Consider combining traditional and non-traditional research outputs such as policy briefs, fact sheets, artworks, storytelling, and other forms of evidence. It may also incorporate various types of knowledge including lay-knowledge and experiential knowledge through engaging in collaborative co-design.
Step 3: Review sources	Developing the imagery and metaphors for the Visual Bibliography (described in steps 4 & 5) requires strong knowledge of the included sources. The deeper the understanding, the greater the complexity that can be represented. In some cases, a structured review and synthesis of the sources to identify relevant elements such as topics, key findings, etc. may be sufficient. In other cases, in-depth analyses incorporating qualitative analytical approaches that align with the values identified in step 1 may be useful. Stakeholders central to the program of research (i.e., administrators, program directors, advisory committees) may be well-suited to this task given their embeddedness in the work.
Step 4: Develop an organizing schema	Sort, group and categorize sources. Experiment with various organizing schematics (e.g., by their key messages, purposes, or impacts). Visual imagery allows for the use of multiple schematics to simultaneously depict multi-dimensional aspects of a source. For example, icons or colors explained in legends could be used to depict type, topic, date of publication or authorship qualities (e.g., authorship involving students, community or Indigenous authors). Placement of items on the “map” can be used to depict relationships between items such as chronological development of ideas or impacts of research over time, conflicting or supporting findings, or ideas for future research. Organizing approaches might include by topic, key findings or messages, methodology, date of publication, output type, or others.

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Step 5: Develop metaphors and/or stories	While developing organizing structures, consider what overarching messages or story(ies) are communicated by the body of work as a whole. These stories may be incorporated into the Visual Bibliography as sign points or tools that can help orient the viewer to central aspects of the body of work.
Step 6: Develop the Visual Bibliography “map” prototype	As underlying messages and organizing structures are developed, elements of the map - including both individual research outputs and overarching messages - can be physically placed in relation to each other. The placement of outputs can be used to tell stories within stories - e.g., items might be grouped by topic within an overarching key message. Experiment with how to visually represent both the research outputs and the overarching messages and stories and how these might be made to speak to each other. Consider various visualization techniques such as using graphs, icons, cartoons, colors, layering and labeling to communicate ideas. Develop a prototype of the visual bibliography via sketches on paper or whiteboards, or via computer applications (like PowerPoint).
Step 7: Test the prototype	Before finalizing the Visual Bibliography imagery, trial the prototype with various stakeholder groups. Seek feedback on initial impressions and interpretations to ensure intended meanings are being communicated and discuss what imagery might best communicate ideas. In our experience, an “unpolished” version invites more engagement and constructive criticism as people may hesitate to criticize versions that feel too complete.
Step 8: Develop or commission artwork	While some artists may be able to help develop ideas for visualization, it is important to enter this stage with a clear description of the key messages and metaphors and how they might be visualized. Be prepared for several rounds of revisions as meanings can dramatically shift as metaphors are re-interpreted into visual formats. Whenever possible, hire local artists and/or people with lived experience to develop the map or discrete elements that could be incorporated. If financial resources are unavailable, a simple Visual Bibliography may be developed using computer applications such as PowerPoint and/or clipart. Involve stakeholders in rounds of review and revision.
Step 9: Finalize the Visual Bibliography	Include a description and/or a legend to help introduce the viewer to the Visual Bibliography and how to use it. Assign identifiers to each source as it is depicted in the map. Provide a source list to accompany the identifiers used in the Visual Bibliography, or use hyperlinks in electronic documents to provide users direct access to sources.
Step 10: Disseminate and Evaluate	Dissemination of the final product in keeping with its purpose. It may be available as a print copy, or through online mediums. Presenting the Visual Bibliography as part of presentations to communities or researchers will help introduce the concept to audiences and provide an example of how it can be used in practice. Evaluation is an important

VISUAL BIBLIOGRAPHIES

	component - seeking information on engagement, use of the tool, effectiveness and value will help build evidence about whether and in what contexts this tool is an effective knowledge translation approach.
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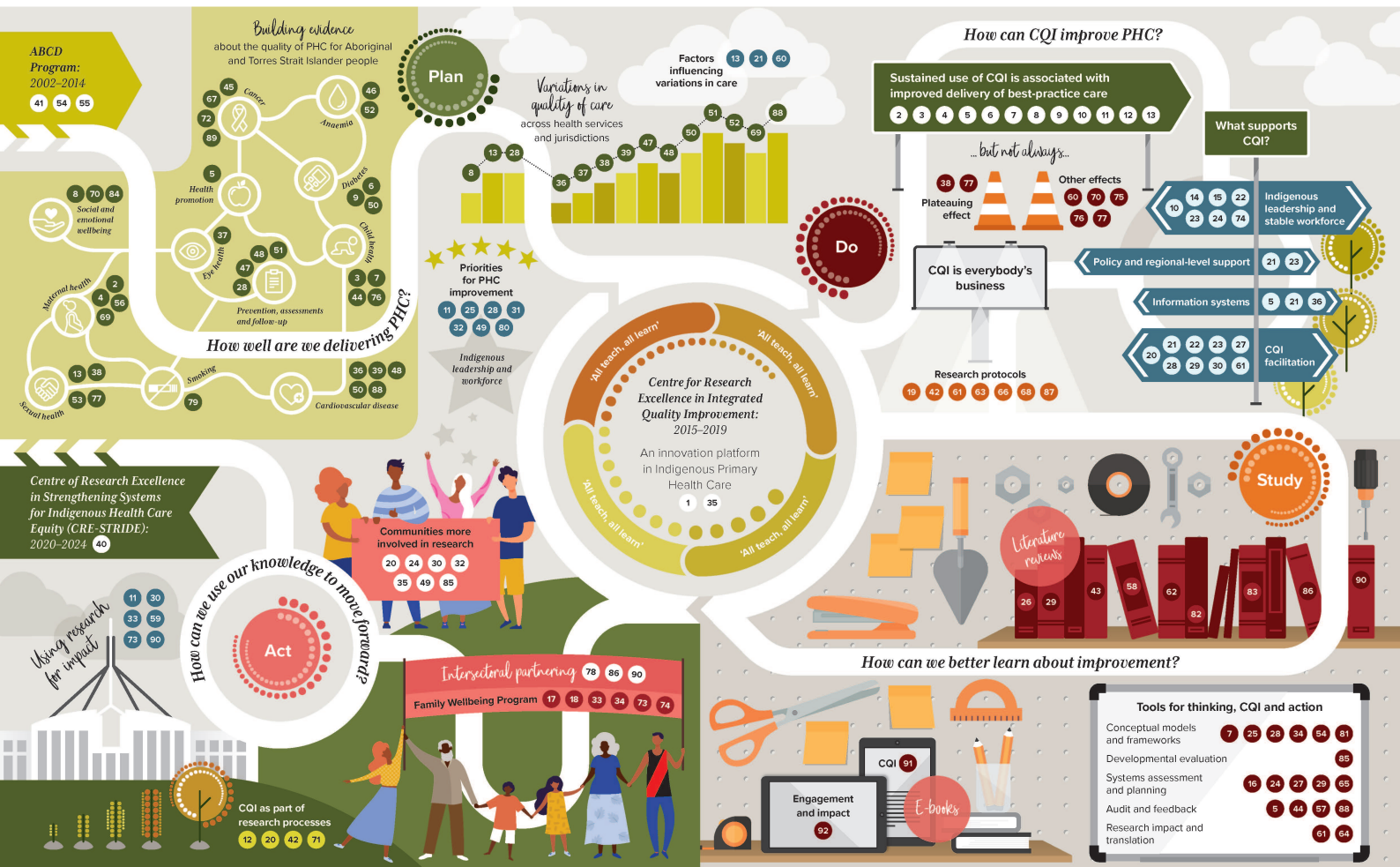
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CRE-IQI Research: A Visual Bibliography of our Publications

The Centre for Research Excellence in Integrated Quality Improvement (CRE-IQI) has produced 92 peer-reviewed articles and books, which we have numbered* 00 and organised into interrelated themes that reflect how our research explored and extended the use of continuous quality improvement (CQI) in Aboriginal and Torres Strait Islander primary health care (PHC). Together these publications show the research journey of the CRE-IQI (2015–2019; NHMRC #1078927), and the many members who are part of this dynamic system.

Developed by K. Conte, A. Laycock with members of the CRE-IQI
 Illustration by Studio Elevesens | December 2019
 *Each number corresponds and hyperlinks to a CRE-IQI article.
 The final CRE-IQI report can be found at: <https://ucrh.edu.au/cre-iqi/>



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The Visual Bibliography and List of References are part of the final report of the CRE-IQI.

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