



Evaluating impact: Developing an assessment framework for online palliative care information

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Flinders University acknowledges the Traditional Owners and Custodians of the lands on which its campuses are located, these are the Traditional Lands of the Arrernte, Dagoman, First Nations of the South East, First Peoples of the River Murray & Mallee region, Jawoyn, Kurna, Larrakia, Ngadjuri, Ngarrindjeri, Ramindjeri, Warumungu, Wardaman and Yolngu people.

We honour their Elders past, present and emerging.





The CareSearch context

CareSearch provides nationally available websites to connect health professionals and the general public with trustworthy, evidence-based information and resources in palliative care.

CareSearch imperatives:

1. Evidence (that is used)
2. Online.

But how do we know if what we do has value and makes a difference?

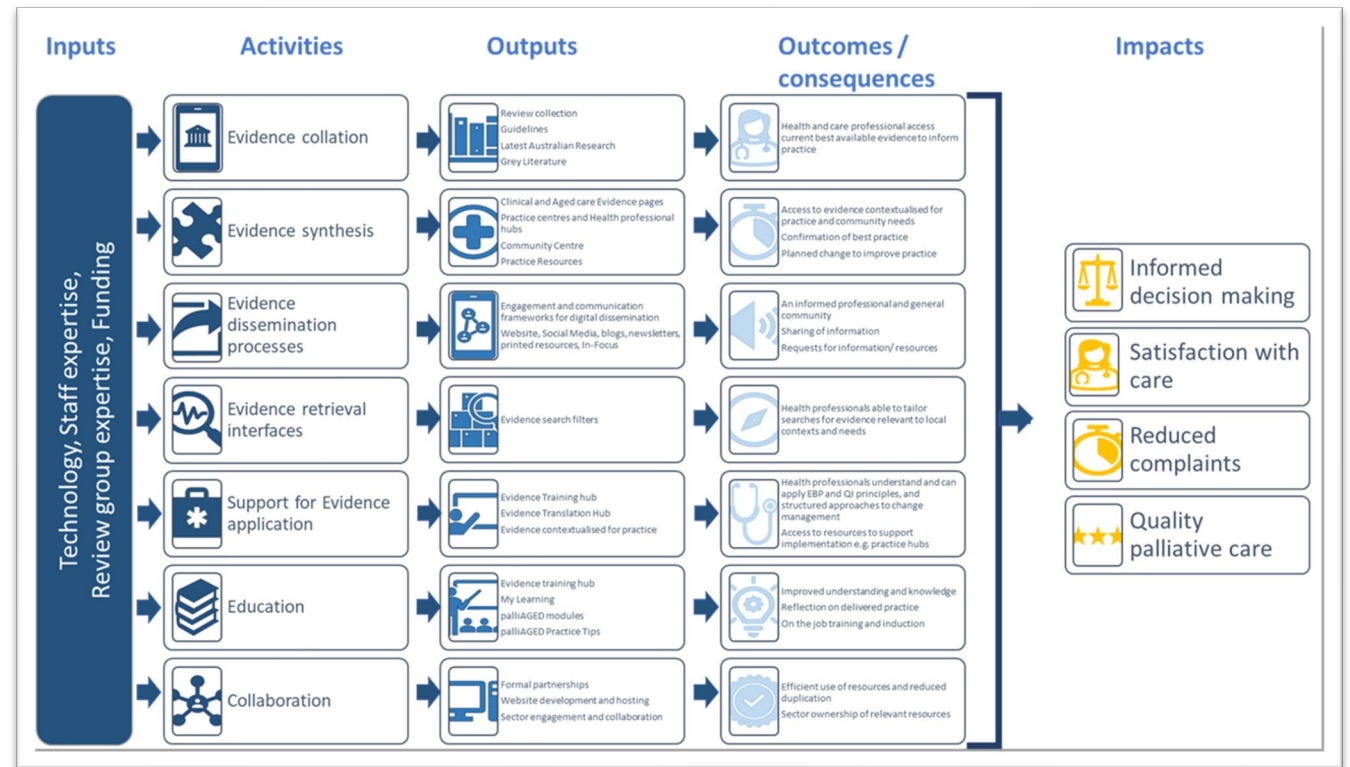


Need for a framework

Basic: Uses "reach" as a proxy for impact, such as website hits or report downloads

Better: User feedback is used, such as surveys, citations, or mentions in policy.

Best: Quantified impact measures, such as on outcomes or money saved.¹





Aim of this study

To review digital translation considerations and develop a framework for assessing online health information outcomes and impacts.

Practical intent was to try and identify measures, surrogate markers, or performance indicators that could be used to demonstrate benefits arising from contact with CareSearch.

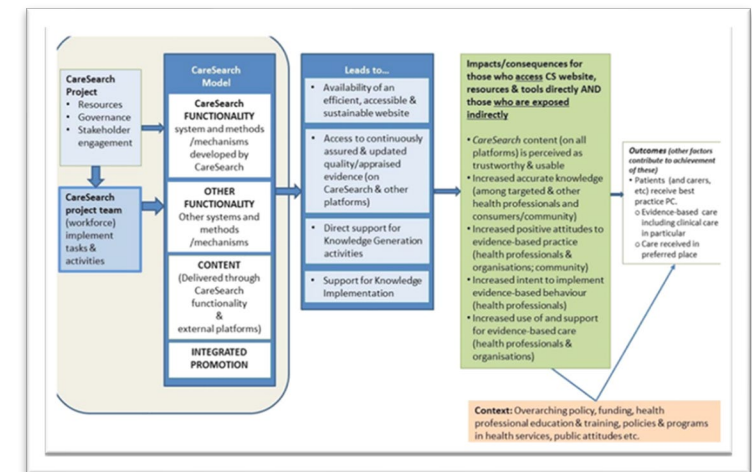
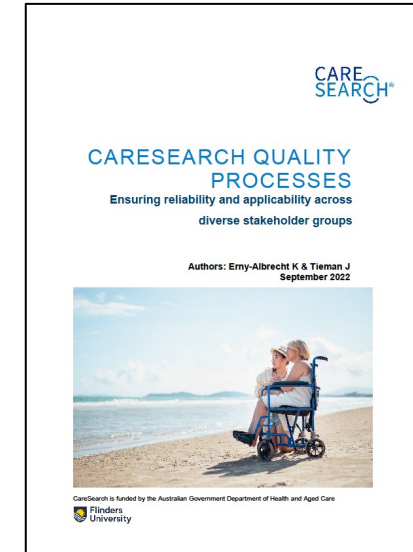
What we did

Internal review of existing operational and agreement documents including CareSearch Quality Processes², grant deliverables and KPIs, CareSearch program logic model³. Documentation of possible measures from this review.

Scoping review of English-language studies published since 2013 indexed in the Ovid Medline and CINAHL databases to identify and map the methods and measures used to determine the impact of online health information.

Analysis of findings and identification of success indicators from 35 completed CareSearch and palliAGED evaluation projects.

Trial mapping of 2023-2024 CareSearch including palliAGED project activities and outcomes to the Impact Assessment Framework.



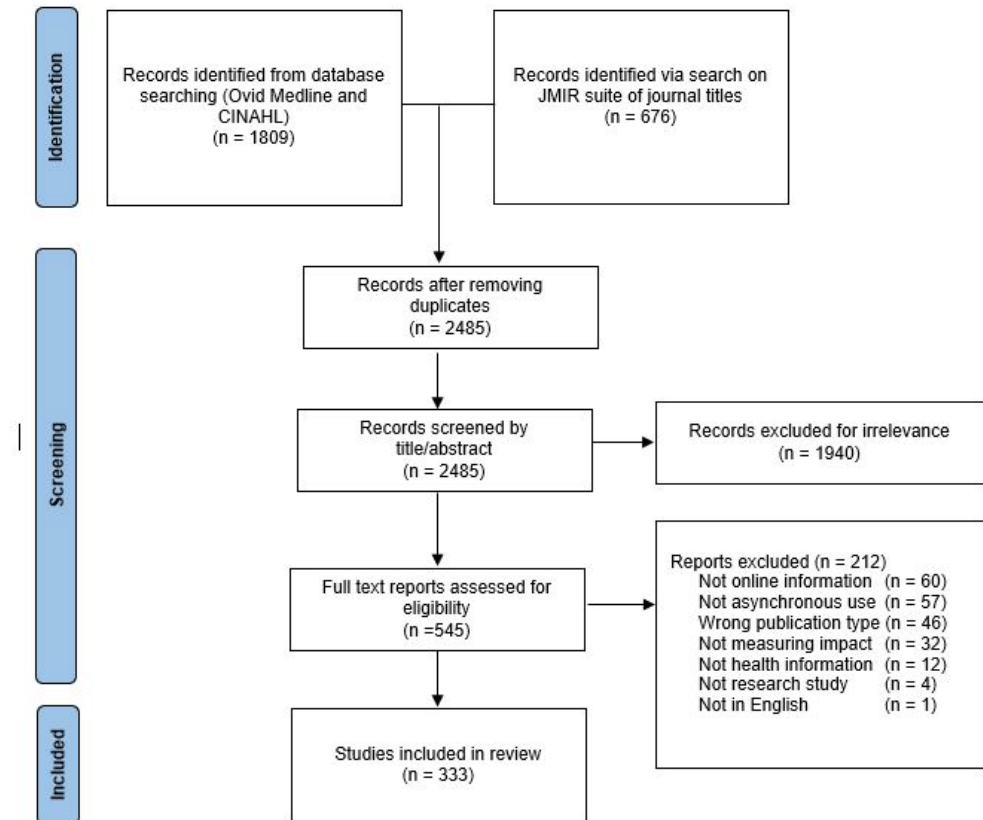
Scoping review findings⁴

Variability in how impact was defined and conceptualised in studies.

Web metrics were a commonly reported. Still a limited evidence base around the utilisation of system data to explore engagement and outcomes.

Impact was predominately measured on a micro-level focussing on changes in behaviour (33.0%), knowledge (20.1%), attitude (5.1%) or varying combinations of the three.

Missed opportunity to understand how to identify and measure changes at meso (service) and macro (sector or system) levels.



Analysis of previous evaluation studies

Not all evaluation studies looked at impacts. Some were formative or reported only on activity delivery.

Studies highlighted the diverse nature of intended end users and audiences.

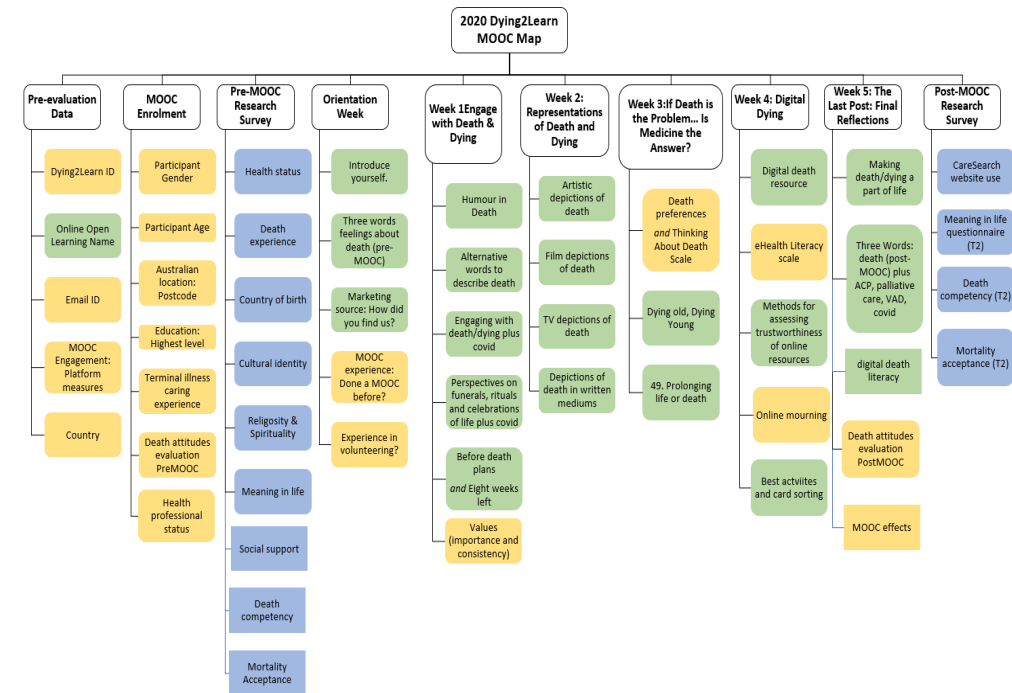
The potential contribution of system metrics to user behaviour analysis was noted.

Surveys as common form of data capture but also interviews to unpack post contact effects. Some bibliometric analysis were found.

Where possible information on practice change or service use had been considered and captured.

Investigations into registered users and partner projects provided indications of ongoing relationships - a possible measure of engagement or partnership.

Some studies enabled more complex evaluations of activity, outcome, and effects (eg Dying2Learn).

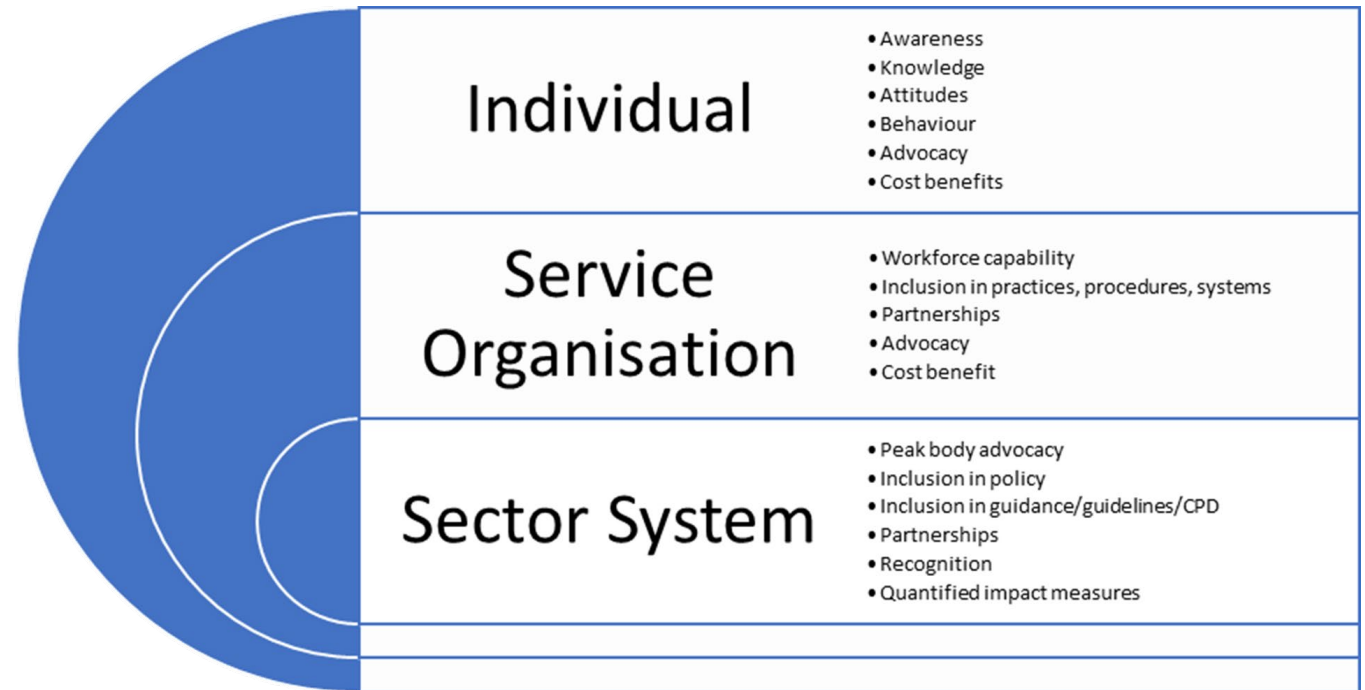


Developing the framework

Results from the two studies and findings from the review of operational and quality processes were compared.

Several key constructs emerged:

1. Impacts were experienced at the individual, service and sector level
2. Assessment of impact may be missed if follow up studies are not undertaken
3. Identifying benefits is important
4. Significant number of potentially meaningful impacts
5. Measures of impact may be indirect (eg guideline inclusion implying practice change)
6. Few quantified measures found.



Creating a data matrix

- We determined to create a data matrix to enable comprehensive data capture and representation.
- Identified benefits were created as reporting cells.
- Benefits were allocated at the individual, service/organisation or system/sector level.
- Types of measures used in identifying or capturing benefits were also noted.
- We developed and described hypothetical KPI exemplars that could apply to each impact/realised benefit.
- We included items even if CareSearch had not yet been able to report against them.
- The matrix was conceived as a summative device that could capture and frame diverse impacts.

Table 1: Outcomes and Impact Metrics associated with Individual, Services/Organisation and System/Sector		
Individual Increasing number of Health Professionals, aged care workers and carers are aware of and benefit from project content and resources	Service Organisation CareSearch content and resources used for workforce capability in an increasing number of organisations	System/Sector Work of CareSearch and palliAGED is recognised and is included in guidance
Awareness Common types of measures: Surveys, comparisons between groups, comparative page usage, engagement metrics (eg newsletter signup) Exemplar KPIs > 5% of individuals registering for newsletters identify as GPs	Workforce Capability Common types of measures: Survey, interviews, focus groups, case study Exemplar KPIs Resource orders/downloads from 5% of aged care services	Peak body advocacy Possible measures: referral links, newsletter inclusions, invitations to be involved, stakeholder matrix Exemplar KPIs 100% PC state and national bodies include CS/pA links
Knowledge Change Common types of measures: Survey (pre-post, post only), Interviews, Responses to knowledge questions within activities. Reported new understandings, Follow up knowledge activities Exemplar KPIs >70% self-report increased knowledge on ACP at end of module	Inclusion in practice/systems Common types of measures: Survey, interviews, focus groups, case study, system data such as orders, referral linkages, organisational training programs Exemplar KPIs #agreements to use resources Examples of training schedules provided	Partnerships Types of measures: network analysis, engagement matrix, rates and quality of participation Exemplar KPIs: # stakeholders involved in project activities Recognised with Health Direct accreditation
Attitudinal Change Common types of measures: Survey (pre-post, post only) Interviews, Self-reported attitude change Exemplar KPIs >50% self-report increased confidence in managing difficult conversations at end of module	Partnerships Types of measures: Network analysis, Engagement matrix, Partnership registry, Representation registry, Participation rates (eg working groups), Dissemination activities Exemplar KPIs #invitations to present	Inclusion in guidance/CPD Possible types of measures: Environmental scan, citation analysis, Exemplar KPIs # palliative care guidance documents referencing CareSearch #educational CareSearch/palliAGED activities/proportion of sector
Behaviour/Practice Change Types of measures: Survey (pre-post, post only, self-report/supervisor/trainer, follow-up) Interviews, objective measures (eg clinical indices), Intent to change reports, System metrics (eg app usage patterns), Reported descriptions of benefit and use Exemplar KPIs >50% report/describe change in behaviour >repeat usage rates of resources	Advocacy Types of measures: Organisations promoting value of CareSearch to members, Endorsements from groups or organisations Exemplar KPIs #stories or items encouraging use of CareSearch	Inclusion in policy Possible types of measures: Environmental scan, citation analysis Exemplar KPIs # policy documents referencing CareSearch or palliAGED
Advocacy Types of measures: Feedback survey, Participation in review groups, meetings; Social media monitoring; event participation; case study, contact analysis Exemplar KPIs >5% of LinkedIn followers share item or provide a comment	Cost benefits Types of measures: Avoided costs in resource development, imputed savings in treatment choices Exemplar KPIs Value of cost sharing of a platform Avoided cost of training package development #services projects including CareSearch content or resources	Recognition Types of measures: Awards, media monitoring, environmental scanning, conference, and scientific meetings Exemplar KPIs # media stories #success rates conference abstracts #invited speaker
Cost Benefits Types of measures: Value of volunteer contribution to project Exemplar KPIs >500 hours volunteer contribution		Quantified impact measures Types of measures: Societal outcomes (eg gains in QALYs, avoided hospitalisations); money saved (eg costs avoided); new knowledge or processes Exemplar KPIs 0.5% of RACF transfers avoided



Testing the framework (Whole of project)

A trial mapping of possible impacts that occurred in the 2023-2024 reporting period was undertaken. Using the matrix, data from project sources and from other sources (eg citation data, engagement activities) was accumulated.

Data was entered into relevant cells to display the spread of impacts and intensity of impact data.

Preliminary mapping exercise: CareSearch (including palliAGED) 2023-24 project outcomes mapped to the Impact Framework		
Outcomes and impact metrics associated with individual, services/organisation and system/sector		
Individual	Service organisation	System/sector
Increasing number of health professionals, aged care workers and carers are aware of and benefit from project content and resources	CareSearch content and resources used for workforce capability in an increasing number of organisations	Work of CareSearch and palliAGED is recognised and is included in guidance
<p>awareness</p> <p>Common types of measures: Surveys, comparisons between groups, comparative page usage, engagement metrics (e.g., newsletter signup)</p> <p>CareSearch usage metrics</p> <p>Web visits: 200,870 Newsletter recipients: 5230 Twitter followers: 3,029 LinkedIn followers: 1,107 Facebook followers: 962</p> <p>palliAGED usage metrics</p> <p>Web visits: 83,685 Newsletter recipients: 4,529 Twitter followers: 1,822 LinkedIn followers: 530</p> <p>Website data capture point interactions (n=372)</p> <p>Data shows that end-users interact with the websites through data capture points, responding to questions such as "I am comfortable talking about death and dying" or "What information are you looking for?"</p> <p>palliAGED Practice Tips: Downloads and orders</p> <p>The Practice Tips are well regarded by the sector and there is substantial use as demonstrated by orders and downloads.</p> <p>Number of print copies of Practice Tips booklets distributed: 8,285.</p> <p>Total PDF downloads of Practice Tips resources: 36,820. This figure includes:</p> <ul style="list-style-type: none">• Downloads of full Nurses Practice Tips booklet: 1,817• Downloads of full Careworker Practice Tips booklet: 2,253• Downloads of individual tip sheets for nurses: 19,277• Downloads of individual tip sheets for careworkers: 13,473	<p>Workforce capability</p> <p>Common types of measures: Survey, interviews, focus groups, case study</p> <p>Services print orders: Survey feedback (n=45)</p> <p>Of people completing a survey after being sent CareSearch or palliAGED print resources, 94% believed they were likely to help staff initiate or contribute to end-of-life discussions.</p> <p>Services print orders: Phone interviews (n=10)</p> <p>Of a sample interviewed by phone regarding their use of the CareSearch/palliAGED print resources, all reported workforce benefits from their use.</p> <p>Specific comments made on the booklets <i>Patients, carers, and families</i> and <i>When someone dies in residential aged care</i> show they are widely valued by staff for gently introducing the subject of palliative care to patients/residents and their families/carers.</p> <ul style="list-style-type: none">• <i>[It] gives some structure to conversations and confidence in what to say and what to include in a discussion</i>• <i>...resources of the highest quality and appropriate to the target audience</i> <p>Some of those interviewed were providing training to workers in aged care settings, including PEPA and ELDAC Linkage trainers. They described how they used Practice Tips booklets to teach care planning, as a basis for staff reflection on their practice, or as the foundation for discussion at monthly meetings or within mandatory training days.</p> <ul style="list-style-type: none">• <i>This evidence-based information is definitely valued by RNs, ENs, and even careworkers and housekeeping staff</i>• <i>[They] give a boost to confidence and quality of practice</i>• <i>Staff feel more confident in the care they provide and the more they talk about it, the more they build capacity</i>	<p>Peak body advocacy</p> <p>Possible measures: referral links, newsletter inclusions, invitations to be involved, stakeholder matrix</p> <p>Palliative Care Australia engagement</p> <p>CareSearch participates in National Palliative Care Program Leaders Forum including guest presentations on evaluation a impact.</p> <p>CareSearch Director is part of the National Expert Advisory Panel for aged care issues.</p>

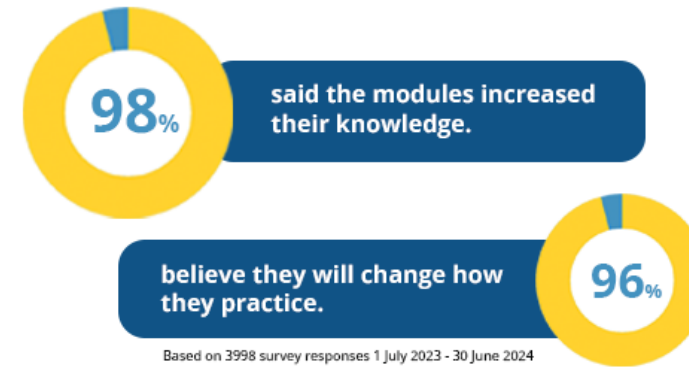


Testing the framework (Specific study)

Two specific evaluation studies are being completed and written up. As well as providing necessary research level data on effect of activities, they provide an opportunity to assess how the framework applies to individual studies.

The specific studies examining use and value are:

- palliAGED resources evaluation
- Clinical Evidence Summaries studies.



Challenges and directions

- Anonymity of being an online provider – how do we follow up unknown users?
- There is a non-linear pathway from activity to impact. Dosage of activity is at discretion of the user.
- Impact measures are still ambiguous in terms of value against purpose (funder versus individual).
- Ability to collect meaningful data without disrupting the ability to deliver the work program efficiently.
- Addressing the issue of diversity and impacts. Universal or targeted impacts.
- Reality of collecting and analysing data eg ethics, time commitment, expertise?

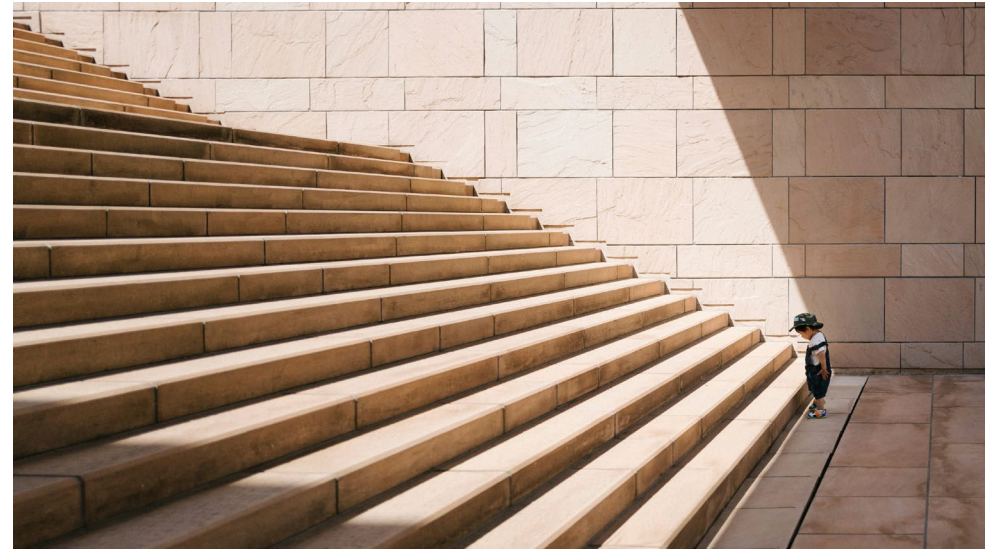


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Embedding impact assessment

Recognise that demonstrating value and identifying benefits is a core responsibility in research, projects and grant funded activity.

Extend thinking from how to deliver project activities to what could/should happen because this activity has been delivered.

Use of an impact assessment framework provides a focus for considering impacts and also for reporting benefits associated with the work.



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1. Ruth Puttick, Vincentia Osabutey-Anikon and Maya Singer Hobbs (2023) Evidence Institutes: Lessons for Australia from the UK, US and Canada Paul Ramsey Foundation
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Thank you



[CareSearch.com.au](https://www.caresearch.com.au)