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e-Mental health for mood and anxiety disorders in general practice

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Background
Australia is a world leader in the development of internet-delivered programs for the prevention and management of mood and anxiety disorders. Despite a strong evidence base of time- and cost-effectiveness, as well as clinical efficacy, the uptake of these programs in general practice remains low.

Objective
To familiarise general practitioners (GPs) with the range of online programs in Australia that have demonstrated efficacy and are currently available for use by patients with mental health problems.

Discussion
E-mental health programs provide an efficacious and accessible form of mental healthcare and have the potential to fill the gap for those for whom such care is inaccessible, unaffordable or unacceptable. Clinicians can also use it in a stepped-care manner to augment existing healthcare services. There are a number of online resources currently available to Australians who have mood or anxiety disorders. These resources have strong evidence to support their effectiveness. Online portals facilitate access to these programs. Recently the Australian Federal Government has funded an education program (eMHPrac) for GPs and mental health professionals, to outline what is available, indicate situations where recommending such resources is appropriate, and suggest ways in which they can be incorporated into general practice.

Keywords
mental health; telemedicine; education, health; patient education; depression

The incidence of mood disorders, such as clinical depression, constitutes a major health burden in developed countries. In Australia, the burden of disease due to mental disorders is substantial and depression is recognised as the most important single cause of non-fatal disability. For most individuals with symptoms of depression, the first port of call is their general practitioner (GP), who provides almost all initial advice and management for illness. Australians rank their GP as the professional they would most probably turn to if they were experiencing depression. This means that identification and management of clinical depression, whether presented overtly or covertly, is a common experience for most GPs.

Many guidelines recommend face-to-face psychological interventions, such as cognitive behaviour therapy (CBT), as a first step for the treatment of depression and anxiety. Although theoretically sound, in reality this can be difficult because of cost, availability and geographical limitations, despite recent changes in the availability of Medicare rebates for allied mental health professionals. Recently, internet therapies have been shown to be a validated and efficacious alternative to face-to-face therapies. Additional benefits include cost neutrality, unlimited scale and overcoming barriers of location and time. These therapies can be conceptualised as part of stepped care, being a simple and lower cost first step after which standard psychotherapy and pharmacotherapy protocols can follow. However, the current challenge is to increase the familiarity of internet therapies among GPs and to facilitate the widespread use of these therapies into routine care. The potential barriers to existing face-to-face care experienced by patients are outlined in Table 1.
what is e-mental health?
e-mental health (eMH) refers to mental health services and information delivered or enhanced through the internet and related technologies. broadly, it includes internet programs, telehealth, mobile phone applications and websites. this article focuses specifically on eMH resources and services that are delivered via the internet. these mental health services are available in two forms:

- automated self-help services such as online CBT
- clinician-supported online services.

Both forms are clinically effective, cost effective and acceptable. GPs can improve outcomes for patients who use these resources by being actively involved in their use, either as referrers, guides and mentors, or therapists. however, GP involvement requires that GPs know what is available and what their patients are using or would be open to using. in this article, we will consider:

1. portals to care that are available to guide both patients and practitioners
2. websites for psycho-education and support
3. online therapy programs
4. risks of eMH
5. introducing eMH to patients
6. online eMH training for GPs.

what evidence-based eMH resources are available?

1. Portals to care

Mind Health Connect (www.mindhealthconnect.org.au) is a website developed and funded by the Australian Government to provide information about mental health problems and access to all the Australian mental health services available online. a guided search helps users to find the resources they need.

Beacon (www.beacon.anu.edu.au) is a website developed by the Australian National University that rates online resources for a range of health issues in terms of their supporting evidence. It has a large section devoted to mental health resources and uses a simple classification system to rate the scientific evidence available for each resource.

2. Websites for psycho-education and support

There is a variety of reliable websites for GPs to recommend, depending on the mental health issues and the individual involved. a number of websites are especially designed for young people. the Black Dog Institute’s Bite Back website (www.biteback.org.au) is designed for those aged 12–18 years and is based on the principles of positive psychology. its aim is to build skills in resilience and improve overall wellbeing in young people through interactive self-help activities, quizzes, blogs, forums, stories and videos, as well as educational information about various mental health topics. ReachOut (http://au.reachout.com), Headspace (www.eheadspace.org.au) and beyondblue (www.youthbeyondblue.com) all provide youth-focused websites. these websites present online CBT and positive psychology strategies designed to reduce distress and build resilience in a youth-friendly format. other online services that provide reliable patient education and support for adults include Blue Board (www.blueboard.anu.edu.au) and Blue Pages (www.bluepages.anu.edu.au). Patients can find each of these sites independently but may not be aware that such sites are available, or that they can be effective tools for self-management of mental health issues. however, if their practitioner recommends these online programs, it is likely that patients would be more willing to use these resources. asking questions about the online resources at follow-up, GPs may also increase the likelihood that patients will benefit from their use.

3. Online therapy programs

Each program has its own evidence base, but a summary of the evidence for eMH programs overall is outlined in Table 2. A small group of Australian institutions are responsible for developing most of the local online therapy programs.

the Australian National University’s MoodGYM program is free, well established and of proven value for moderate stress, anxiety and depression.

<table>
<thead>
<tr>
<th>Table 2. Evidence supporting the use of e-mental health programs</th>
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<tr>
<td><strong>Depression</strong> – trials show effect sizes of eMH are at least as large as effect sizes for face-to-face psychological treatments in primary care and for antidepressant medications</td>
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<tr>
<td><strong>Anxiety</strong> – trials show that effect sizes for eMH programs are equivalent to face-to-face therapy for panic disorder and social phobia</td>
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<tr>
<td>Effect sizes for anxiety are greater than for depression but this may reflect differences in the way participants were selected</td>
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<tr>
<td><strong>Effectiveness has been demonstrated over the long term</strong></td>
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Table 1. Patient barriers to face-to-face care

- Distance to care
- Time constraints
- Unavailability of suitably skilled professionals
- Privacy concerns
- Cost
- Stigma
- Unwillingness to disclose
- Childcare logistics
- Transport
- Physical disability and impaired mobility
The Black Dog Institute’s myCompass22 is a free program for use on smartphones as well as computers. It provides CBT for mild-to-moderate stress, anxiety and depression in a modular format, with the additional benefits of real-time monitoring of mood and behaviour, reports, reminders, motivational messages and a diary.

This Way Up clinic at St Vincent’s Hospital and the University of NSW (CRUfAD) have developed a suite of CBT interventions called This Way Up23 for anxiety and combined anxiety and depression. Three of these programs (‘Shyness’, ‘Stress Management’ and ‘Worry and Sadness’) are available in a 3-module format free of charge. The 6-module evidence-based programs cost $55 for 90 days access and involve a referral and follow-up with a treating GP.

Macquarie University’s MindSpot clinic24 offers modular CBT for obsessive-compulsive disorder and post-traumatic stress disorder and a wellbeing program designed for people suffering from mild-to-moderate stress, anxiety and depression. There is also an additional program specifically designed for the people aged ≥60 years. MindSpot provides email and telephone therapist support for participants while they are enrolled in the programs.

Self-guided assessment and CBT courses for the spectrum of anxiety disorders (eg panic disorder, generalised anxiety disorder, obsessive compulsive disorder, post-traumatic stress disorder and social anxiety disorder) are provided by Swinburne University at Anxiety Online.25 Self-help courses are free of charge and do not require a referral. Users who would prefer a therapist to guide them through the program can pay a fee of $120.00 for online therapist support.

Queensland University of Technology has developed the OnTrack suite of programs,26 which includes programs for depression, alcohol problems and comorbid depression and alcohol problems.

The University of Melbourne and Deakin University have developed resources for bipolar disorder, aimed at both consumers27 and caregivers.28

**4. Risks of eMH**

There are theoretical concerns about possible safety issues and risks in using eMH programs. Practitioners need to be aware that many programs can be found and accessed on the internet without the suggestion or direction of practitioners at all. There is no guarantee that the programs patients are using are likely to provide positive outcomes. Given that it is normative for patients to seek information on the internet, and sites vary widely in quality, it is appropriate for practitioners to take the lead in recommending and prescribing evidence-based programs to ensure that patients are using programs for which there is evidence of efficacy. Most programs contain mechanisms to alert the user or the referring practitioner (if one exists) to declining mental health and prompt the need for further action. However, it is important that practitioners arrange follow-up to review the content and impact of the program, as they would if they were prescribing medications or referring to a psychologist. A model for follow-up is outlined in Figure 1.

**5. Introducing eMH to patients**

GPs are aware that a significant proportion of the prescriptions they write are never filled. They also know that some of the medications that are dispensed are never taken or treatment courses not completed. It stands to reason that simply handing a patient a piece of paper with a

<table>
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<th>Table 3. Online therapy program descriptions and indicators</th>
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<tr>
<td><strong>Online therapy program</strong></td>
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<tr>
<td>myCompass <a href="http://www.mycompass.org.au">www.mycompass.org.au</a></td>
</tr>
<tr>
<td>MoodGYM <a href="http://www.moodgym.anu.edu.au">www.moodgym.anu.edu.au</a></td>
</tr>
<tr>
<td>This Way Up <a href="http://www.thiswayup.org.au">www.thiswayup.org.au</a></td>
</tr>
<tr>
<td>MindSpot <a href="http://www.mindspot.org.au">www.mindspot.org.au</a></td>
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<td>Anxiety Online <a href="http://www.anxietyonline.org.au">www.anxietyonline.org.au</a></td>
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<tr>
<td>OnTrack <a href="http://www.ontrack.org.au">www.ontrack.org.au</a></td>
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<tr>
<td>MoodSwings <a href="http://www.moodswings.net.au">www.moodswings.net.au</a></td>
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website address will not lead to high uptake of eMH programs or good outcomes of their use.

Every GP has a unique style in engaging with patients and as they become more familiar with the idea of referring patients to e-mental health programs as a resource, will develop preferred methods to promote and guide patients through such programs. The referral process may be facilitated by incorporating eMH programs as one of the options available to a patient when developing a mental health treatment plan or when informally discussing the situation with patients.

In providing eMH as an option, it is helpful to briefly explain and demonstrate what that means for a patient. First and foremost, the GP needs to determine whether the patient has internet access. Although the majority of Australians now have access to broadband internet, there may be older patients or those with lower literacy levels who do not engage with internet technology. As such, GPs could consider arranging private computer access in their practices. Second, it is advantageous if the GP has a preferred eMH program in mind as this allows the GP to log on to that program within the consultation and familiarize the patient with the design and structure of the program. Some patients may prefer to investigate other options that are available for them, and may wish to look at the portal websites to choose a program for themselves. Guiding patients to these websites will ensure that they choose from quality, evidence-based programs. Third, discussing patient confidentiality within the internet program is also important. Some patients may have concerns regarding their personal information and it is important that their confidentiality is discussed prior to engaging with such programs. While safe and secure, internet programs operate using different security packages and consumers should be encouraged to consult the terms and conditions of their use.

Written material for use on GP desktops available at www.blackdoginstitute.org.au/eMHPrac explores the details of the eMH resources that are available. This information can be printed out and provided to patients for their consideration, accompanied by an explanation of how such a program could fit into the broader treatment plan. Table 3 provides a summary of the place that eMH programs can have in treatment planning in general practice.

GPs need to be mindful of not giving the impression that they are offloading their patients to cyberspace, even if the internet program is self-directed or does not have clinician support. To avoid this, it is necessary for the GP to clearly articulate the place that eMH programs will have in the overall treatment plan and make firm, time-limited arrangements for follow-up. This provides time frames for the patient and the opportunity to check wellbeing and compliance, encourage participation, overcome obstacles and assess whether alternative plans are necessary. It also ensures that the patient feels adequately supported by the healthcare system. Again, Figure 1 provides a guideline for such a follow-up procedure.

6. eMH training programs for GPs

e-Mental Health in Practice (eMHPrac) is a project funded by the Australian Government to provide training for GPs, allied health professionals and Aboriginal and Torres Strait Islander mental health professionals in the use of eMH resources and services.

Online training modules, webinars and fact sheets, developed at the Black Dog Institute by GP educators and online learning experts, introduce GPs to e-therapies and demonstrate how these tools and technologies can be integrated into primary care. By completing eMHPrac training, GPs and GP registrars can gain continuing professional development points with the Royal Australian College of

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**Figure 1. Suggested procedure for e-mental health programs**

- **Referral to eMH Program**
  - **Engaged and responding**
    - Unwilling to engage
    - Engaged but still unwell
    - Trying to engage but deteriorating
    - Occasional follow-up
    - Explore, encourage, reassess, adjust treatment plan, (other eMH or referral)
    - Encourage, regular follow-up, reassess, adjust treatment plan
    - Intensive follow-up, reassess, adjust treatment plan, refer and/or medicate
  - Routine follow-up (2 weeks)
At a professional meeting, David hears about the Beacon website.\textsuperscript{14} He explores the website himself and discovers a number of sites and programs he can use for information and support. He is drawn particularly to the myCompass program,\textsuperscript{22} because it is free and allows registration with a pseudonym and without a referral. He also likes the idea of being able to use the program on his smartphone.

David has never had any training in CBT, but through using the techniques described in the program, he finds the myCompass program helpful and his mood somewhat improved. He also uncovers a wealth of material that he realises might be useful for use in his own practice with his patients. He reinforces what he has learnt on myCompass by exploring the OnTrack depression program\textsuperscript{36} and MoodGYM.\textsuperscript{21}

Once he has completed the myCompass program, David decides he is now feeling and functioning well enough to continue with his rural placement. He is able to use the mental health ‘survival skills’ he has learnt to help him throughout his placement. He also finds that his newfound enthusiasm for online mental healthcare means he is more likely to suggest these programs to his patients, that his patients are more likely to use the tools and he is better equipped to guide them through the programs as part of their overall treatment plan.

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