

Title page

Early Intervention in Psychosis Services: From Clinical Intervention to Health System Implementation

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Running title:

Implementation in Health Systems

Abstract and keywords

Abstract

Aim

Early Intervention in Psychosis (EIP) is a well-established approach with the intention of early detection and treatment of ~~severe mental illness~~ psychotic disorders. Its clinical and economic benefits are well documented. This paper presents basic aspects of EIP services, discusses challenges to their implementation and presents ideas and strategies to overcome some of these obstacles.

Methods

This paper is a narrative review about the evidence supporting EIP, with examples of successful implementation of EIP and of cases where major obstacles still need to be overcome.

Results

Experience from successfully implemented EIP services into the mental healthcare system have generated evidence, concepts and specific strategies that might serve as guidance or inspiration in other countries or systems where EIP is less well developed or not developed at all. Previous experience has made clear that evidence of clinical benefits alone is not enough to promote implementation, and as other aspects, such as economic benefits arguments and political and social pressure have shown to be ~~are important arguments~~ elements in efforts to achieve implementation to be used.

Conclusions

Users' narratives, close collaboration with community organisations and support from policy-makers and known people within the community championing EI services are just a few of the approaches that should be considered in campaigns for implementation of EI services. Fast progress in implementation is possible.

Key words:

Early intervention in psychosis (EIP); evidence-based medicine; health planning; implementation; mental health services

Introduction

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Definition

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Early Intervention in Psychosis (EIP) is a well-established approach with the intention of early detection and treatment of ~~severe mental illness~~ psychotic disorders. The rationale is that detection and treatment of psychotic symptoms, behavioural problems and psychosocial deficits in early stages reduce the long-term adverse impact of these severe mental illness disorders and contribute to preventing relapses and improving functioning. EIP services mainly target young people with psychotic symptoms, but they are also aimed at people who are at ultra-high risk for developing psychosis. EIP relies on the concept of clinical staging of psychosis, in which early and milder clinical phenomena differ from those that accompany illness extension, progression and chronicity ¹.

The aim of this paper is to present the local and national experiences, views and suggestions presented by leading specialists in EIP from several countries during a symposium during at the IEPA 10, held by the IEPA Early Intervention in Mental Health in Milan, Italy, in October 2016.

History

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EIP programmes originated from research showing convincing evidence of an association between shorter Duration of Untreated Psychosis (DUP) and benefit on relevant outcomes at 12 months, including positive and negative symptoms, depression, anxiety, overall functioning, and social functioning ²⁻⁴.

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Description of EIP

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Specialized assertive outreach teams are at the core of EIP services. Staff members in these teams have a reduced caseload compared to conventional mental health service teams ⁵. They are usually multidisciplinary and include psychiatrists, community psychiatric nurses, clinical psychologists, social workers, occupational therapists, employment support specialists, and peer support workers, among others.

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Importantly, clinical management is not limited to pharmacological intervention. Interpersonal problems, social skills, vocational and educational issues, functional recovery, physical health, substance abuse, suicidal ideation, and financial problems are also the focus for multidisciplinary intervention.

Teams practice assertive outreach by actively promoting contact and engagement with the patient, including outreach efforts in community settings and inat patients' homes. Family members are generally actively encouraged to be involved.

Besides this set of characteristic elements, EI services relate to external factors in specific ways, which can vary according to different national contexts. Primary and secondary health care professionals, schools and the police are encouraged to make direct referrals ⁶. Promotion to raise community awareness and education of local stakeholders in the health

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care system and other services relevant to the mental health of young people are often connected to EIP services ⁷.

insertion in systems

As important as this set of elements of EIP services are the connections to the healthcare system, educational system and other social institutions, which are in turn encouraged to make direct referrals to EIP services (Max Marshall, Lockwood, Lewis, & Fiander, 2004). Promoting community awareness and education of local stakeholders in the healthcare and educational systems can be part of the efforts associated with implementation and maintenance of EIP services (P-D McGorry, Edwards, Mihalopoulos, Harrigan, & Jackson, 1996).

Evidence — clinical and costs

EIP services have shown that it is possible to shorten the duration of untreated psychosis, and that some positive effects, for instance on employment participation, have persisted for at least 10 years ⁸.

Besides reducing the need for hospitalisation, including bed days, and increasing retention in care, EIP services have also been shown to improve social functioning ⁹ and user satisfaction

^{5,10,11}

Results of one early trial, the Lambeth Early Onset (LEO) trial, a pioneer among EIP programmes, reduced the number of readmissions in psychiatric wards and decreased dropout rates significantly ¹².

Convincing results were also seen in OPUS, a randomised trial which was described in a Cochrane Review from 2011 as the largest study and the study with highest quality at the time of the review ¹³. OPUS compared EIP with standard care and demonstrated an incremental improvement in a health system that already had a good standard of care. Thus, results showed clear effects on psychotic symptoms, negative symptoms, social functioning, substance abuse, and burden of illness experienced by family members ^{14,15,16}.

It is not only people who already have symptoms who can benefit from EIP programs. An additional focus on people at ultra-high risk has also been associated with fewer admissions to hospital and less compulsory treatment ¹⁷.

But there is still uncertainty regarding EIP services. While we know that increasing the focus of a health system, including primary care, on EIP can greatly improve early identification of people with at-risk mental states or first episode psychosis ^{18,19} as a cost-effective measure, we do not know, for instance, for how long specialist services should be offered. Beneficial effects on symptoms and function seen after two years of specialized and intensive services in

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the OPUS trial were not sustained after five years (i.e. after three years of standard treatment), except for the ability to stay independently which was better in OPUS patients up to seven years after inclusion¹⁸. On the other hand, an EI program from Canada suggests that a five-year program might have long-lasting effects¹⁹. More recently the Danish OPUS II trial compared five years versus two years of specialised EIP services, and results showed no difference between groups regarding negative symptoms or on other psychopathological dimensions, functional level, labour market affiliation, cognitive function, or hospital admissions; as authors suggest, the results cannot serve as a basis for recommending EIP services for five years, but they do not contradict the early intervention paradigm¹⁹.

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Another unknown effect of EIP services is the long-term impact on physical health and mortality due to somatic diseases, which are associated with worse measures among people with psychotic disorders in relation to the general population^{20,21}.

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In some settings, the economic case for the healthcare system alone from EI services can be attractive. Despite services being more costly during the initial 12 months of support, by 24 months the overall costs to the healthcare system can be lower than those of conventional mental health services. This economic advantage may increase further by 36 months (McCrone, Knapp, & Dhanasiri, 2009; Tsiachristas, Thomas, Leal, & Lennox, 2016; Valmaggia et al., 2009).

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more on evidence - costs

These cost advantages can occur because EIP services can be superior to standard care. Results of one early trial, the Lambeth Early Onset (LEO) trial, a pioneer among EIP programmes, reduced the number of readmissions in psychiatric wards and decreased dropout rates significantly (Craig et al., 2004). Besides reducing the need for hospitalisation, including bed days, and increasing retention in care, EIP services have also been shown to improve social functioning (Dieterich, Irving, Park, & Marshall, 2010) and user satisfaction (Harris, Burgess, Chant, Pirkis, & McGorry, 2008; Mello et al., 2006; Nordentoft et al., 2014). It is not only people who already have symptoms who can benefit from EIP programs. An additional focus on people at ultra-high risk has also been associated with fewer admissions to hospital and less compulsory treatment (Valmaggia et al., 2009).

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aqui: still missing evidence for...

Health system implementation

~~There are examples of widespread implementation in a handful of countries including England and Denmark, parts of Australia, Norway, Canada and parts of Asia and Canada, and more recently in the United States — elsewhere service availability remains restricted to research-based teams (Csillag et al., 2016). Adequate implementation is not just a question of disseminating information on the effectiveness and cost-effectiveness of EIP services, it is also about careful planning of the implementation and operationalisation.~~

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Fidelity

If EIP programmes are to deliver positive-expected results, they need to be implemented and conducted as they have been originally intended to do, which can be measured by instruments to assess how strictly the delivered program adheres to the proposed model. These fidelity measures---

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Fidelity measures are supported by research evidence showing that best results are actually achieved with the highest levels of fidelity to models ²².

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Fidelity instruments can help achieve this: they measure how strictly the delivered program adheres to the proposed model. One of the first fidelity measure instruments was based on the core components of the Early Psychosis Prevention and Intervention Centre (EPPIC), in Australia (Hughes et al., 2014).

Adherence to the originally designed programme means not only including essential features of good practice; it means also that other inappropriate types of practice should be avoided ²³. There is reasonable evidence showing a good association between high levels of fidelity to specified models of EI care and better results from the implemented service (Drake et al., 2004).

Australia

One of the first fidelity measure instruments was based on the core components of the Early Psychosis Prevention and Intervention Centre (EPPIC), in Australia ²⁴. Essential elements in the Australian model include aspects such as community awareness and ease of access to service – without which patient enrolment would risk being compromised – and continued staff development and training; clinical parameters include case management, medical and psychological treatments, and functional recovery, among others.

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EIP services in Australia has expanded throughout the country with The headspace Youth Early Psychosis Program-Headspace National Youth Mental Health Foundation, created and expanded to around 30 centres from 2006 to 2009 ²⁵, and currently ~~has been being~~ implemented in about 100 ~~designated~~ centres across Australia. This foundation ~~and~~ offers a specific EIP service, the Youth Early Psychosis Program (hYEPP) ²⁶.

Besides Australia,

National cases

~~Maintenance of successfully implemented EIP services can be as challenging as their implementation. This is illustrated by the experience from two countries in which EIP services have been widely implemented into a sustainable care model – England and Denmark.~~

National cases

~~There are examples of widespread implementation in a handful of countries including England and Denmark, Australia, Norway, Canada and parts of Asia, and more recently in the United States – elsewhere service availability remains restricted to research-based teams²⁷. Adequate implementation is not just a question of disseminating information on the effectiveness and cost effectiveness of EIP services, it is also about careful planning of the implementation and operationalisation.~~

England

In England, a rapid increase in implementation of EI programmes occurred after 2001, promoted by a National Service Framework (NSF) for mental health, which included EIP²⁸. ~~Is was later promoted~~, by EIP policy implementation guidance²⁹, and by ~~the~~ revised Initiative to Reduce the Impact of Schizophrenia (IRIS) guidelines, originally published in 1999 and revised in 2012³⁰.

These guiding policies were based on existing evidence at the time and embraced the vision of people committed to early intervention in psychosis. ~~Services adhered reasonably to the proposed models, as a mean fidelity score of 6.44 (range from 1 [lower degree of fidelity] to 10 [higher degree of fidelity]) showed in 2005. By 2005, services reached a mean fidelity score of 6.44 in a range from 1 to 10³¹, with t~~he number of teams providing comprehensive coverage across England to young people (14-35 years) with a first-episode psychosis ~~rose~~ing to 178 by 2010.

But this widespread and policy-based dissemination and implementation of EIP programmes came under threat as constraints on public expenditure arising from the 2008 economic crisis began to have an impact within the National Health Service (NHS). ~~There was a gradual dilution of some teams and incorporation of others into general community mental health teams. This was in spite of the National Institute for Health and Care Excellence (NICE) recommendation³² that anyone with a first-episode psychosis should receive timely access to an EIP service, and accumulating evidence of cost savings associated with EI programmes¹⁷.~~ ~~As responsibility for NHS became more devolved~~sSignificant cuts were seen in over 50% of

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EIP services, with a decrease in coverage from 95% to only 69% of NHS Trusts offering EIP services in 2016³³.

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It seems that this decline is now being reversed. In 2016, a new EIP national policy was implemented in England, ~~the known as~~ EIP National Access and Waiting Time (AWT) policy standard³⁴, which states that 50% of people experiencing a first episode psychosis should start a NICE-approved EIP care package within two weeks of referral for assessment. Most EIP services (N = 125, 87%) are standalone specialist teams with their own management structure, working with people aged from 14 to 35 years (N = 90, 63%), and the new EIP AWT policy requires EIP services in England to extend their services to all people with an FEP aged up to 65 years. Most (n = 128, 89%) report working with people for a maximum of 3 years³⁵.

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Furthermore, a sophisticated prediction tool, the Psymaptic³⁶, which is freely available online, generates high-quality data on the expected incidence of clinically relevant cases of psychotic disorder in England, allowing more effective local planning with an appropriate allocation of resources. It provides a basis to negotiate increasing funding where need is demonstrably greater than expected. Together with an increase in funding in EIP programmes, these and other initiatives can be considered the second wave of systematic and improved EIP implementation in England.

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Denmark and Norway

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A similar development can be seen in Denmark, where EIP services have been transferred from a research-based setting into a nationwide service embedded in the general healthcare system. ~~The Danish experience stems from OPUS, a randomised trial which was described in a Cochrane Review from 2011 as the largest study and the study with highest quality at the time of the review (M Marshall & Rathbone, 2011). OPUS compared EIP with standard care and demonstrated an incremental improvement in a health system that already had a good standard of care. Thus, results showed clear effects on psychotic symptoms, negative symptoms, social functioning, substance abuse, and burden of illness experienced by family members (Petersen et al., 2005; Thorup et al., 2005) (Jeppesen et al., 2005).~~

Since the initial positive OPUS ~~results results~~,¹⁴ EIP services have been implemented throughout the country nationwide. Between 1998 and 2013 ~~the country Denmark~~ had a tenfold increase in the numbers of EI teams. Financing the implementation of EIP services as the standard for care depended initially on specific governmental grants. In 2016, health experts and the regional health authorities agreed on a treatment package for people with psychosis, which sets the EIP programme approach as the standard for people with a psychotic disorder. As in England, this new development includes a timeframe to initiation of the treatment package: an individual is entitled to be evaluated within one month of referral³⁷.

In Norway, the development of early intervention services in mental health started around 1990, and in the mid-nineties the TIPS-project (Early InTervention In PSychosis) was launched. Early intervention strategies are the core element in Norwegian guidelines for assessment, treatment and follow-up of non-affective psychosis, and in 2016 a nationwide 3.3 million Euros implementation project has been has been launched³⁸.

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USANorth AmericaUnited States and Canada

A different and more recent example of implementation and expected maintenance of EIP services is the Recovery After an Initial Schizophrenia Episode: Early Treatment Program (RAISE-ETP), launched in 2008 in the United States by the National Institute of Mental Health (NIMH). This is a high-quality initiative with demanding fidelity measures embedded since its inception, in order to facilitate its replication in current US settings³⁹. The results from the initial experiences of RAISE influenced federal and state agencies' support for widespread implementation across the country, and, by 2018, more than 100 EIP teams are expected to be fully implemented and operational⁴⁰.

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Canada has also seen an increase in EIP services. Specialized services emerged in the late 1990s and now exist in most provinces, but are not universally available, especially in remote or rural areas⁽⁴¹⁾. Even though the delivered services are heterogeneous throughout the country, the Canadian Consortium for Early Intervention in Psychosis, established in 2012, promotes the adoption of national standards (ref review⁴²).

Canada...

Low prioritizationImplementation challenges

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Obstacles

There are many obstacles to the widespread implementation of EIP services. Recognition of the specific needs of patients with early psychosis is a necessary starting point, but a more general acknowledgment that mental-psychotic disorders can potentially have fatal consequences, being associated with reduced life expectancy compared to the general population, might also be lacking. There is a need to communicate effectively with politicians and administrators- to convey more insight and knowledge about this patient group. It is also important to communicate effectively with relatives, health professionals in general, medical graduates, as well as other professionals, such as school teachers⁴³. In Japan, for example, the school system is gradually but steadily incorporating educative and training activities for high school students to teach them deal and help peers with mental health problems.

Even when there is a perceived need to address the problem, insufficient funding might hinder the implementation of EIP services - as shown by a known and well-documented funding gap^{44,45}. When political and budgetary obstacles are minimized or removed, the structure of the mental health system might itself be a major barrier to implementation - for example in

countries where a reliance on institutionalisation and the social isolation of people with severe mental illness psychotic disorders is more common ^{46,47}.

Spain

A country that currently has to contend with many difficulties during initial efforts to implement EI services into the health system is Spain. Political interest is almost non-existent, and there is a lack of commitment and political involvement in preventive measures. There is almost no coordination between mental health specialists and primary care, welfare services or educational institutions; it is difficult to offer integrated treatment, instead, treatment is offered in a fragmented manner through different services and in different sites, with no guarantee of continuous care. Access to psychosocial services is rare, and facilities are not adapted to the needs of young people. The organization of resources is inappropriate to operate EI services, with long waiting lists and long periods of time between visits ⁴⁸.

Against this scenario, some research-based programmes have emerged in Spain. These programmes are mostly funded by research grants, where family associations also contribute with funding and initiatives, such as efforts to educate the public and to train teachers and professionals in primary care services on concepts about early psychosis. An important institution in this context is the Fundación Manantial, created on the initiative of relatives' associations ⁴⁹.

Examples of intervention programmes on first-episode psychosis include the Programa Asistencial de Fases Iniciales de Psicosis (PAFIP), at the Marqués de Valdecilla University Hospital, in Santander ^{50,51}, and the Programa de Intervención en Psicosis Adolescente (PIENSA), based at the Gregorio Marañón Hospital, in Madrid ^{52,53}.

Italy

Another country with limited development and implementation of EIP services is Italy, in spite of the traditional focus of regional health care services on care provided through community mental health centres ⁵⁴. This might in part be explained ~~to~~ by the country's regional variability: only some regions have successfully implemented EIP programmes, mainly inside the network of community mental health centres ⁵⁵. The central government is now putting efforts into the coordination and promotion of services, with the provision of a framework and the promotion of continuous and even compulsory monitoring of services. A research funding mechanism prioritises projects that are immediately applicable to the national system ⁵⁶.

Discussion

Strategies to implementation

Different approaches might be used to overcome the variety of obstacles impeding widespread implementation of EIP services within healthcare systems. Embedding EIP services within publicly funded health systems might be considered an essential component of an implementation strategy. This has been achieved in only few countries, such as England,

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Denmark, Norway and Singapore. By evaluating the impact of embedding these services within existing mental health services, it is possible to demonstrate that EIP service models can be adapted to operate in contexts and countries where implementation had previously been limited ⁵⁴.

Strategy – context

It is also important to look at the context in which EIP services could be delivered, ~~being mindful of resource constraints and the existing staffing mix and service provision~~. For example, in Italy, where only a small number of specialist EIP services have been sustained, the recent large scale GET UP PIANO trial has assessed the impact of providing training for community mental health service mental health staff to provide EIP services. This study concluded that it is feasible to provide EIP specialist services activities within the existing staff and infrastructure of the community mental health centres that are found throughout the country ^{54,57}. Potentially this might help both with the diffusion and sustainability of EIP services at a time when the health service is under substantial financial pressures.

Strategy – less stigmatising + payment

Another way in which implementation might be facilitated could be through changing structures so that contact with services is perceived to be less stigmatising. This could be done by encouraging collaboration and co-location of staff in the same premises or by conducting joint training events ⁵⁴. Other general strategies that might facilitate the implementation of EIP services include introducing payment mechanisms to promote development of EIP capacity, widening access and coverage, monitoring the fidelity in the delivery of services and promoting the emergence of champions to raise awareness about early psychosis and the benefits of EIP services.

Strategy – info to other countries

It is critical to share evidence on effectiveness as well as positive experiences in countries where implementation, appropriate coverage and acceptable fidelity and quality criteria have been met. This can help to generate a set of ideas and specific strategies that might serve as inspiration or guidance for implementation.

Strategy – eCost effectiveness

The clinical evidence about the benefits of EIP is well documented and can be used by health professionals, policy makers, users and relatives to promote EIP services. There is also a growing evidence base on cost effectiveness. Economic arguments should also be considered essential elements of efforts to promote EIP services, including in countries with no or only incipient EIP services. It is probable that EIP is cost-effective in high income country contexts, with lower costs and better outcomes, compared to standard treatment, even without considering the impact on employment or on issues such as education and housing needs ⁵⁸.

~~Despite services being more costly during the initial 12 months of support, there is some evidence that the main elements of EI can be cost-effective; indeed, the highest fidelity models show no advantage at one year ⁵⁹. By 24 months the overall costs to the healthcare system~~

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~~can be significantly lower by 24 months the overall costs to the healthcare system can be lower than those of conventional mental health services. This economic advantage may increase further by 36 months~~ ^{17,60,61} .

~~It has been shown that EIP service delivery can cost less than standard care during a 24-month period, and be lower still at 36 months (McCrone et al., 2009; Valmaggia et al., 2009).~~

As the majority of the costs of living with psychosis do not fall on health systems, the economic case can be strengthened further if analyses consider the impact of EI on other sectors of the economy, such as education, employment, housing and justice. For instance, EI has been associated with significant net savings per recipient from improved employment and education outcomes during a three-year period ⁶². Economic analyses using modelling techniques can also be used to rapidly help to point to mid to longer economic benefits beyond the health sector ⁶². Such approaches can be particularly valuable in the absence of previous local empirical data on cost effectiveness as well in extrapolating longer term costs and benefits beyond those seen in clinical trials ⁶³.

~~Strategy – Social pressure~~

It is not just a question of generating and communicating evidence on EIP. After more than 20 years of efforts to secure the development and the financing of EIP services in countries like England and Denmark, it has become clear that evidence alone is not sufficient. Experience shows that politicians respond to individual narratives, stories of young users and their family members who benefited from and campaigned for EIP services - or are in need of their benefits. Passionate stories can exert an immense impact, especially if they are part of organised public affairs campaigns. Service users and family members could be involved much more closely from the very beginning of EIP services campaigns. They may benefit from help in developing skills to communicate with policy makers and the media, as well as in setting up sustainable organisations and networks.

~~Fostering close connections to NGO and with community organizations that support people with psychosis and other mental health needs is therefore a good starting point to promote EI services.~~

~~Strategy – alliances with families and NGOs~~

~~Fostering close connections to NGOs and with community organizations that support people with psychosis and other mental health needs is therefore a good starting point to promote EI services.~~

Two types of alliances have ~~also~~ been shown to have a powerful impact in campaigning for EIP services – ~~with~~ ~~The contribution of~~ users and family members and ~~with a close interaction with~~ NGOs and community organisations ~~helps to fight stigma and facilitates communication with politicians and with the news media~~. ~~Besides~~, ~~E~~experience suggests that forging partnerships with professionals with a background in administration, fundraising or

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marketing might be ~~also be~~ helpful in order to implement changes in a healthcare system. This might lead to sophisticated approaches based on implementation science models, which might, for example, incorporate monitoring minimum service fidelity criteria, national dataset reporting and benchmarking.

~~Strategy – leadership~~ Avoid thinking only at a clinical level

There is the key role and importance of EIP leaders providing leadership within and across countries. Without the championing of evidence, political efforts engaging politicians and civil servants, reciprocal support between countries from key EIP international leaders, even some of the most successful EIP service roll outs and implementations would probably not have happened.

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~~Strategy – avoid thinking only at clinical level~~

The experience gathered from countries that have succeeded in implementing and sustaining EIP services shows that clinicians should avoid thinking only at a clinical level, and instead, consider an approach involving the mental healthcare system as a whole, as well as the primary and secondary care sectors, and wider social support systems.

~~Strategy – maintain fidelity~~

Finally, attention must be paid to facilitating a continued high level of fidelity, which means not only initial adherence to the designed EIP model, procedures, and staff training, but also continued funding and monitoring of all these components.

Acknowledgements

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This paper is based on a symposium held during the 10th International Conference on Early Intervention in Mental Health, held by IEPA Early Intervention in Mental Health in Milan, Italy, from 20 to 22 October, 2016. ⁵⁶ Otsuka Pharmaceutical Europe Ltd and H. Lundbeck A/S has offered financial support in relation to this report and the meeting that preceded it in the form of consultancy and secretarial services. The organisation of the meeting was carried out independently of this support and neither of the companies have had influence on the discussions and conclusions, which reflect the views of the Expert participants. Otsuka Pharmaceutical Europe Ltd and H. Lundbeck A/S have reviewed this report for factual accuracy only. Claudio Csillag received a grant from IEPA to report from the symposium.

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Table 1. Timetable of implementation in England

1999 - Initiative to Reduce the Impact of Schizophrenia (IRIS) guidelines

2001 – Rapid increase in EIP services

2010 – 178 EIP teams

2012 – Policy implementation guidelines by Mental Health Network NHS Confederation

2014 – NICE guidelines on EIP: anyone with a first-episode psychosis should have access to EIP service

2016 – Effects of financial crises in 2008 led to fall in coverage from 95% to 69% of NHS Trusts offering EIP services.

2016 - National Access and Waiting Time (AWT) policy standard: EIP care should be offered within two weeks of referral.

EIP: Early Intervention in Psychosis. NHS: National Health Service. NICE: National Institute for Health and Care Excellence

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Table 2. Facilitators and barriers to the implementation of EIP services

| Facilitators | Barriers |
|---|---|
| <u>Research evidence</u> <ul style="list-style-type: none"> - <u>EIP experts promote evidence of clinical and economic benefit</u> - <u>Maintain a high level of fidelity</u> | <u>Research evidence</u> <ul style="list-style-type: none"> - <u>Avoid thinking only at a clinical level; consider an approach involving the mental healthcare system as a whole</u> |
| <u>Political</u> <ul style="list-style-type: none"> - <u>Adoption by health authorities of EIP services according to guidelines/clinical evidence</u> | <u>Political</u> <ul style="list-style-type: none"> - <u>Lack of political interest</u> - <u>Lack or recognition of specific needs of patients with early psychosis</u> |
| <u>Communication and stakeholders</u> <ul style="list-style-type: none"> - <u>Service users and family members should be closely involved from the very beginning</u> - <u>Family associations can contribute with funding and initiatives</u> - <u>Champions can raise awareness about early psychosis</u> - <u>Individual narratives of users and families that benefit from EIP programs can have a great impact</u> | <u>Communication and stakeholders</u> <ul style="list-style-type: none"> - <u>Lack of effective communication with relatives, other health professionals and other professionals, such as school teachers</u> - <u>Lack of effective communication with politicians and administrators</u> |
| <u>Economic, structural and administrative</u> <ul style="list-style-type: none"> - <u>Embedding EIP services with publicly funded healthcare systems</u> - <u>Payment mechanisms to promote development of EIP capacity</u> - <u>Changing structures of health services, so contact is perceived as less stigmatizing</u> - <u>Central coordination in countries with regional variability in healthcare</u> - <u>Partnerships with professionals in administration, fundraising or marketing</u> | <u>Economic, structural and administrative</u> <ul style="list-style-type: none"> - <u>Constraints in public finances, insufficient funding</u> - <u>Obstacles in healthcare system structure (e.I. emphasis on institutionalization)</u> - <u>Poor coordination between mental health specialists and primary care</u> - <u>Poor access to services</u> - <u>Facilities poorly adapted to the needs of young people</u> |

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