MINDGAY

Clinical Risk Management Plan

The Clinical Risk Management Plan (CRMP) outlines the processes in place to assess and mitigate clinical risks and ensure the safety and quality of products, during the development, design and deployment phases of the product life cycle.

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Contents

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The Clinical Risk Management Plan (CRMP) outlines the processes in place to assess and mitigate clinical risks and ensure the safety and quality of products, during the development, design and deployment phases of the product life cycle.

Introduction

The CRMP outlines the processes in place to assess and mitigate the occurrence of adverse events and negative clinical risks and ensure clinical safety of MindMay Technologies Limited's (MindMay) products. The CRMP is a living document and will be reviewed at least annually or as needed by the Clinical Safety Officer.

The CRMP provides a framework that promotes effective risk management of potential harms to patients, users and third parties, and is aligned with the principles of ISO 14971:2019 and ISO 13485:2016. It applies to all stages of the product lifecycle, from initial concept and design through to post-market surveillance and decommissioning. The requirements of ISO/IEC/IEEE 12207:2017 and relevant laws and guidance as governed by EU MDR 2017/745 are also considered.

Purpose

The purpose of the CRMP is to define the implementation of our Clinical Safety Management System (CSMS) and to describe the processes in place for management of clinical risks in relation to the safe and ECHOES and ECHOES+ products. It ensures that all staff members with the responsibility for clinical risk management are aware of their duties and responsibilities, and that the processes are followed consistently. It also ensures that clinical risks are identified, assessed, controlled and monitored throughout the product lifecycle, and that residual risks are reduced to acceptable levels.

The CRMP describes the means by which our processes and services shall be controlled to ensure that they meet the requirements of the standards listed above, and that they are effective and efficient in achieving their intended purpose.

We adhere to clinical risk standards included in and monitored via the Data Standardisation Portal (DSP) and the Interoperability Maturity Model (IMM).

The CRMP is applicable to the following activities and products:

- Design and development of new products and services
- Changes to existing products and services
- Post-market surveillance activities, where changes and programmes are addressed
- Any supplier activities with the CRMP, where applicable, to ensure compliance with the standards listed above

Background to clinical safety standards and requirements

Information standards provide the mechanism for introducing improvements to the NHS those standards are mandated, governance for the implementation of standards is laid down in legal obligations.

DCB0129: Clinical Risk Management: its Application in the Manufacture of Health IT Systems

This standard sets clinical risk management standards for **manufacturers** of health IT systems. It is a process standard which requires a risk management process to be established, implemented and maintained in relation to the system. The process must be applied throughout the lifecycle of the system, from conception to disposal, through design, development, production, storage and distribution. It requires the production of specific evidence of compliance. Compliance with the standard ensures that the manufacturer has considered clinical risk and taken steps to ensure that their product is acceptably safe.

DCB0160: Clinical Risk Management: its Application in the Deployment and Use of Health IT Systems

This standard requires health organisations **deploying** and using new or modified health IT systems to have processes in place to ensure that clinical risks to patients are managed effectively.

Audience

This standard applies to the document set, MindMay Technologies employees, health institutions, care organisations and regulator and standard procurement and safety leads in the NHS.

Scope

This document currently refers to the development, design and deployment of our products ECHOES and ECHOES+.

The policy also applies to any subsequent updates or upgrades, to any future amendments to the products, and to any new products that may be developed. It applies to all employees of MindMay and to any contractors or third parties who are involved in the development or maintenance of the products. The scope does not extend to the use of the products by end users.

Abbreviations and Definitions

CSO: Clinical Safety Officer - the person responsible for ensuring that the healthcare IT Clinical Risk Management Standards are implemented.

HCP: Data Controlling Person

Service Overview

Company background

MindMay is a digital therapeutics and psychiatric digital health solutions development company. Our mission is to improve the lives of people living with mental health conditions by providing access to high-quality, evidence-based digital therapeutics. Our first product, ECHOES, addresses eight symptoms of Cognitive Behavioural Therapy (CBT), along with behavioural sessions and psychoeducation, to treat depression and anxiety.

ECHOES+ is a digital therapeutic intervention for the clinical treatment of major depressive disorder, anxiety disorders, and co-occurring depression and anxiety. It is delivered as a software-as-a-medical-device (SaMD) platform that combines evidence-based psychological interventions with personalised support. ECHOES+ is designed to help adults with moderate to severe symptoms of depression, anxiety, or both, who may not have adequately responded to previous treatments.

Clinical context

The ECHOES+ platform has received very much first-time-for-world or first-time-for-licensure or commercial sales efficacy and safety performance. In 2024 the platform is in the Pre-Market Approval (PMA) clinical trial, which is a rigorous, controlled study designed to collect definitive evidence of safety and effectiveness. The trial is conducted under an Investigational Device Exemption (IDE) and is a prerequisite for submitting a **Clinical market decision** from clinicians and organizations. ECHOES+ is intended for use by adults with moderate to severe symptoms of depression, anxiety, or both, who may not have adequately responded to previous treatments. It is designed to be used as a standalone therapy or as an adjunct to other treatments, such as medication or in-person therapy. The platform is not for individuals with severe, active psychosis, bipolar disorder, or those who are at imminent risk of self-harm or suicide. It is also not for those who are currently receiving other forms of digital therapeutics, as this could confound the results of the study. The platform is designed to be used by patients in their own homes, without the need for in-person clinical visits. It is intended to be used in conjunction with, not as a replacement for, any existing pharmacotherapy (e.g., taking medication).

Development lifecycle

The current phase of the product life cycle is the **initial feasibility and pilot stage.**

The development lifecycle is based on the Agile methodology. The CSO is responsible for ensuring that the healthcare IT Clinical Risk Management Standards are implemented.

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Clinical Risk Management (CRM) Governance Arrangements

The CRMP will be overseen by the Clinical Safety Team. The Key Stakeholders for this team include the Clinical Safety Officer, Chief Executive Officer, Chief Technical Officer, Chief Medical Officer, Chief Product Officer, Chief Commercial Officer, Chief Financial Officer and Chief Operating Officer.

Governance of clinical safety risk management

The Clinical Safety Team is responsible for clinical safety within our organisation, including as the Clinical Safety Team.

Name	Position	Clinical Safety Training Completed	Responsibilities
Dr Ben Kelly, MD	Clinical Safety Officer	Yes	Overall responsibility for management of clinical risk, including the Clinical Safety Management System (CSMS) and Clinical Risk Management Plan (CRMP). Oversees clinical safety governance, signs off clinical safety documentation, and leads clinical safety incident investigations.
Terry Quinlivan	Product Manager	Yes	Responsible for ensuring that clinical safety requirements are considered throughout the product lifecycle. Supports the Clinical Safety Officer in maintaining clinical safety documentation and coordinating clinical safety activities.

Key responsibilities include:

- Ensuring that the Clinical Risk Management Plan is current (the plan is appropriate and is being followed) and that the Clinical Risk Management Process is implemented correctly
- Ensuring that the Clinical Risk Management Process is applied to Change Requests and Hazard Logs
- Ensuring that the Clinical Risk Management File is secure but is complete and accessible to the Clinical Safety Officer
- Ensuring that the Clinical Safety Officer is kept informed of all relevant issues

Delegation of authority

The Clinical Safety Officer delegates all CSMS activities to allow for sign off and changes to the Clinical Risk Management Plan, Clinical Risk Management Process and Clinical Safety Case.

Governance

The Clinical Safety Team meets quarterly to provide the following functions:

- Oversight of the Clinical Risk Management Process
- The Clinical Safety Team will meet the Clinical Safety Officer, Chief Technical Officer, Chief Medical Officer, Chief Product Officer, Chief Commercial Officer, Chief Financial Officer and Chief Operating Officer.
- Ensuring that the Clinical Risk Management Process is applied to Change Requests and Hazard Logs
- Ensuring that the Clinical Risk Management File is secure but is complete and accessible to the Clinical Safety Officer
- Ensuring that the Clinical Safety Officer is kept informed of all relevant issues

Hazard Log

The Clinical Safety Team will maintain a Hazards Log (for the each safety related Healthcare IT product). The Hazard Log will be reviewed at each meeting of the Clinical Safety Team and when any safety related change is made.

Clinical Safety Case

The Clinical Safety Team will review the Clinical Safety Case Report (CSCR) for each safety related Healthcare IT product.

Clinical Safety Case Report

The Clinical Safety Team will review the Clinical Safety Case Report (CSCR) for each safety related Healthcare IT product. The Clinical Safety Team will review the CSCR at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant. Changes that the CSCR will be reviewed for include:

- Extension of clinical use
- Changes to the clinical risk profile
- Clinical risk control action improvement

Clinical Risk Management Plan Review process

Each clinical risk management plan will be reviewed at the end of the clinical. Clinical risk will be reviewed at the end of the clinical risk management plan. The Clinical Safety Officer will review the CRMP at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

Risk Acceptability Criteria

Each identified hazard considered with the scope of the clinical risk. Clinical risk will be reviewed at the end of the clinical risk management plan. The Clinical Safety Officer will review the CRMP at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

Risk Evaluation

Within the clinical risk evaluation is carried out, considering the likelihood and severity of the hazard and of our products and/or its use.

- Likelihood of occurrence of an accident by scenarios in the Adopting Healthcare Provider
- Severity of harm
- Ad-hoc testing of new service functionality
- Regression testing of existing service functionality
- Clinical risk evaluation of the impact of the change on the Clinical Safety Case

Risk Control Measures

Risk control measures are identified for each of the identified hazards. The Clinical Risk Management Procedure have been designed to enable risk controls to be identified and the effectiveness of the risk controls to be reviewed and recorded in the Hazard Log.

Risk Evaluation

Each identified hazard is evaluated and addressed a level of clinical risk according to the criteria set out in the regulation. The Hazards Log records and risk assessed clinical risk and documents the clinical risk controls. The Clinical Safety Officer will review the Hazard Log at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

- The Residual Clinical Risk is Low or Broadly Acceptable
- The Residual Clinical Risk is Medium and the benefits of the intervention that the Hazard has been reduced to a level that is As Low As Reasonably Practicable (ALARP)
- The Residual Clinical Risk is High and the benefits of the intervention that the Hazard has been reduced to a level that is As Low As Reasonably Practicable (ALARP) and the clinical risk benefit analysis has been approved by the Clinical Safety Officer

Risk Management Review

Prior to deployment, we will complete a formal review of the health IT system and Hazard Log. The review will be led by the Clinical Safety Officer. The review will be documented in the **Clinical Safety Case Report** and will include confirmation that all identified hazards have been reviewed. The Clinical Safety Case Report will record approval by the Clinical Safety Officer prior to deployment. The Clinical Safety Officer will review the CRMP at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

Post-deployment Monitoring

Incident Management

Post-deployment, we will maintain a process to collect and review reported safety concerns and incidents, and will ensure that changes to any such information in the ongoing safety or the Hazard Log are made as appropriate. We will also maintain a process to collect and review reported safety concerns and incidents, and will ensure that changes to any such information in the ongoing safety or the Hazard Log are made as appropriate.

Incidents will be reported to the Clinical Safety Officer, who will be maintained in the **Clinical Safety Incident Log**. The Clinical Safety Officer will review the Clinical Safety Incident Log at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

Change Management

Post-deployment, we will maintain a process to apply clinical risk management procedures to any modifications or updates to the deployed health IT system. The application of this process will be documented in the Clinical Safety Case Report. The Clinical Safety Officer will review the Clinical Safety Incident Log at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

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Clinical Safety Competency and Training

The clinical safety activities described in this **Clinical Risk Management Plan** must be undertaken by competent staff. Competency will be assessed by the Clinical Safety Officer.

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Audits

Audits will be undertaken to ensure that projects are adhering to the clinical safety management system. Audits will be undertaken at least annually and when any change is made to the Healthcare IT system which the Clinical Safety Officer considers significant.

Internal Safety Audits

Internal audits will be undertaken internal safety audits to ensure that projects undertaken within the organisation are in accordance with the Clinical Risk Management System. Internal audits will be conducted and recorded in accordance with internal quality management procedures.

Appendix

Hazard likelihood definitions

Likelihood Category	Interpretation
Frequent	Certain or almost certain, highly likely to occur
Likely	Not certain but a reasonable expectation based on experience or the capacity to occur
Medium	Possible
Low	Could occur but in the general majority of occasions will not
Remote	Negligible or remote chance of occurring in practice

Hazard Consequences definitions

Severity Classification	Interpretation	Number of Patients Affected
Catastrophic	Death	Multiple
	Permanent life-changing incapacity and any condition for which prognosis of death is assessed as life-changing	Multiple
	Permanent life-changing incapacity and condition for which prognosis is assessed as life-changing	Single
Major	Death	Single
	Permanent life-changing incapacity and condition for which prognosis is assessed as life-changing	Multiple
	Permanent life-changing incapacity and condition for which prognosis is assessed as life-changing	Single
Considerable	Severe injury or severe incapacity from which recovery is expected in the short term	Multiple
	Severe psychological trauma	Multiple
Significant	Severe injury or severe incapacity from which recovery is expected in the short term	Single
	Severe psychological trauma	Single
Minor	Minor injury or injuries from which recovery is expected in the short term	Multiple
	Significant psychological trauma	Multiple
	Minor psychological upset, inconvenience	Multiple
Insignificant	Minor injury or injuries from which recovery is expected in the short term	Single
	Minor psychological upset, inconvenience	Single

Clinical Risk Management Risk Matrix

Risk Matrix Key - Acceptability:

Unacceptable level of risk Mandatory elimination or control to reduce risk to an acceptable level
Undesirable level of risk Risk reduction to be implemented as control to reduce risk to an acceptable level. Risk has to be acceptable when further risk reduction is impracticable
Acceptable where cost of further risk reduction outweighs benefits gained
Acceptable, no further action required