Welcome to MAC Clinical Research

Driving Clinical Excellence

“ It has been inspiring to witness your fierce passion for patient care and scientific advancement. In addition to being our fastest recruiting site, your performance in every other aspect of the study has been nothing short of exceptional! I am truly proud to be able to partner with a site of your calibre.

Clinical Project Manager, Research & Development Pharmaceutical sponsor

1988
Memory Assessment Research Centre established

2002
MAC launches multisite operations

2009
MAC opens dedicated patient recruitment and retention centre

2011
Established a Site Management Organisation (SMO) with multiple clinics throughout UK

2013
MAC Pharmacy department opens first aseptic services suite

2016
MAC Early Phase Unit receives MHRA Phase 1 Accreditation and GMP Pharmaceutical Manufacturing facilities open

About us

MAC Clinical Research is a leading contract research organisation dedicated to accelerating clinical trials to develop new and improved treatments for patients.

Established in 1988 as one of Europe's first memory assessment centres, we have a vast and rich history of becoming the UK's neuroscience centre of excellence, expanding into a fully owned network of sites, and gaining expertise in patient recruitment.

Today, we are a full-service CRO providing site and patient services with complete solutions covering a wide range of therapeutic areas.

2017
Our clinic portfolio continues to grow with more sites added and access to over 30 million patients throughout the UK

2018
MAC opens Sleep Laboratory and Psychedelic Suites

2019
Bespoke participant recruitment model 'MAC EnVision' launched

2020
MAC launches as a full-service CRO with a large network of sites

2023
MAC opens a state-of-the-art laboratory offering an array of services including bioanalytical services and clinical pathology

PRESENT
MAC is a full-service CRO provider offering solutions across the globe

Our services

CLINICAL RESEARCH SERVICES

Project Management

Clinical Operations
Site Monitoring
Site Management
Trial Feasibility

Pharmacovigilance

Regulatory Affairs

Biometrics
EDC
Data Management
SAS Programming
Biostatistics
Medical Writing

Vendor Management

Randomization and Trial Supply Management

Digital Solutions
Electronic Patient-Reported Outcomes (ePRO)
eConsent

Medical Monitoring

SITE & PATIENT SERVICES

Participant Recruitment

Participant Retention

Global Investigator Sites

Network of Fully-Owned Investigator Sites
Sleep Laboratory
Early Phase Unit
Psychedelic Testing Suites
Phase I - IV Research Facilities
Memory Assessment Research Centre

SCIENTIFIC SOLUTIONS

Human Models of Disease

Scientific and Endpoint Assessments
Cardiovascular Assessments
Cognitive and Neuropsychological Assessments
Dermatology Assessments
Imaging Assessments
Neurophysiology Assessments
Pain Assessments
Other Assessments
Rare diseases

Sleep Assessments

Psychedelics

Training

PHARMACEUTICAL SERVICES

GMP Manufacturing

In-House Pharmacy

Global Clinical Supplies

QP Release

IMP Management & Distribution

Controlled Drug Services

Laboratory Services
Clinical Pathology
Bioanalytical Services

STRATEGIC CONSULTANCY

Therapeutic Area Expertise & Study Development

Scientific Solutions & Pharmacodynamics

Clinical Science & Development

Medical Strategy, Input & Expertise

Statistical Analysis, Planning & Advice

Medical Writing

Laboratory Study Design, Methods & Conduct

You can select a full-service solution or pick and choose from our services to suit your needs. Speak with our friendly team to discuss your requirements. Alternatively, scan the QR code to complete our enquiry form.

STUDY DELIVERY

To start your journey, MAC provides study feasibility across a wide range of therapy and disease areas.

As a CRO, we take our 30 years of experience to offer full service, tailored and global solutions for your programs. We are able to take your compound through all phases of clinical trials - up to and including phase 3 registration/pivotal studies as well as phase 4 trials. Our approach allows you to build the study your way, working with quality sites globally and ensuring delivery every time.

With a wide range of solutions, we provide a truly bespoke service:

- Our offering is well suited to the needs of biotech and pharmaceutical companies that are looking to achieve their corporate and study-related objectives, with an experienced, flexible high-performing partner.
- We understand the importance of selecting a partner who can deliver with confidence and give your trial the attention it deserves. We are dedicated to ensuring your studies are prioritised and our sponsors receive a personal service.
- Our ability to upscale effort and resources to achieve success is part of what sets us apart.

Our experts

Our medical leadership team shares 80+ years' experience in clinical research and drug development.

Our team of scientists, clinicians and physicians understands the complexities of clinical studies, the requirements to work alongside patients across many patient populations and therapeutic areas, as well as the treatment pathways and personal motivations to participate in clinical research studies. We have a team of over 30 clinical research physicians who offer scientific input to sponsor protocols as required and can act as Principal and Chief Investigator where MAC sites are used.

5-year summary

120+	250+	50+	20+
SPONSORS	STUDIES	INDICATIONS	FIRST-IN-HUMAN STUDIES

Our panel of experts

Dr Mark Dale
Chief Executive Officer

Dr Shoona Vincent
VP of Clinical Science

Dr John Connell
Chief Scientific Officer

Dr Aliya Asher
Chief Medical Officer

Our sites

MAC is unique as a CRO with a fully-owned network of clinical sites.

Our dedicated research facilities enable studies to be located at the highest performing sites to expedite developments within budget and with the highest quality data. We are open to partnering with any site globally and can use our own sites, where appropriate, to bolster recruitment. Our dedicated facilities include a state-of-the-art Early Phase Unit, a specialist sleep laboratory, psychedelic testing suites, and Phase I – IV clinics.

Our early & late phase site capabilities

- Site Director
- Principal Investigator & Physicians
- Nurse & Clinical staff
- Can act independently or as a group
- Can run outpatient studies

Global reach

We provide CRO solutions globally. We have direct access to high-performing sites, wholly-owned MAC locations, and the MAC site network across the world.

Our Early Phase Unit is MHRA- accredited for First-in-Human studies

> "MAC has considerable experience and a highly developed clinical infrastructure to conduct early and late phase clinical trials for depression. This has led to a track record of success in antidepressant trials and allows me to recommend MAC without hesitation.

Senior Director and Compound Development Leader,
Pharmaceutical sponsor

Our therapeutic experience and expertise

Cognitive Disorders
Alzheimer's Disease (mild to severe)
Agitation with Alzheimer's Disease
Prodromal/Early Onset Dementia
Parkinson's Disease-Related Cognitive Dysfunction
Mild Cognitive Impairment

Psychiatric Disorders
Major Depressive Disorder
Mixed Depression
Bipolar Disorder
Generalized Anxiety Disorder
Social Anxiety Disorder
Depression with Erectile Dysfunction
Obsessive Compulsive Disorder
Post Traumatic Stress Disorder
Bulimia

Pain
Complex Regional Pain Syndrome
Fibromyalgia
Migraine
Post Traumatic Neuralgia
Post Herpetic Neuralgia
Peripheral Neuropathy
Diabetic Neuropathic Pain
Osteoarthritis of the Knee
Psoriatic Arthropathy
Tennis Elbow

Sleep
Insomnia with Depression
Narcolepsy

Parkinson's Disease
Mild to Moderate Parkinson's Disease

Multiple Sclerosis
Spasticity in MS

Dermatology
Atopic Dermatitis
Psoriasis

Cardiology
Hypertension
Hyperlipidaemia

Gastrointestinal
IBS
Pouchitis
Ulcerative Colitis
Crohn's Disease

Metabolic
Diabetes - type 1 and 2

Respiratory
Asthma
COPD
Chronic Refractory Cough

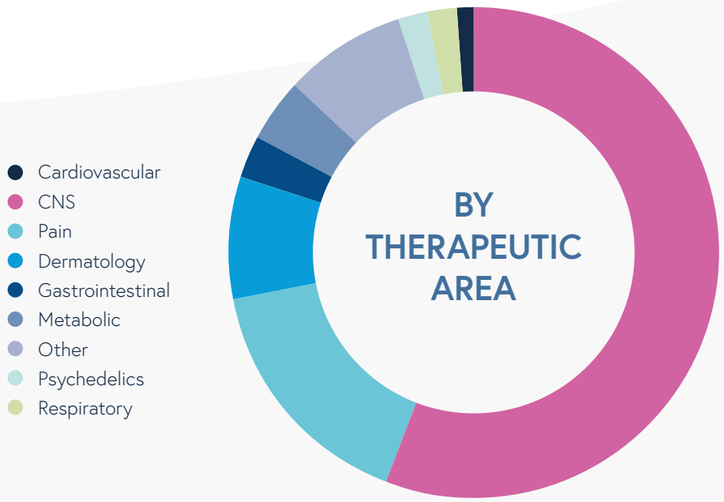
Women's Health
Post Menopausal Vasomotor symptoms (VMS) & Low Bone Mineral Density (BMD)

Psychedelics
Healthy Volunteers
Treatment-Resistant Depression
Major Depressive Disorder
Opioid Addiction
Post Traumatic Stress Disorder

Oncology
Solid tumours
Haematological malignancies
Anti-cancer therapy induced toxicities

We have vast experience conducting complex and scientifically challenging First Time in Human (FTIH) studies.

- The majority of our studies involve central nervous system (CNS) indications.
- Our core area of expertise is in Cognitive Disorders and Dementias such as Alzheimer's Disease, as well as studies in pain.
- We have specialised research facilities for psychedelic testing including fully trained staff and overnight capabilities.
- We have expanded into many other therapeutic areas and can work in any area of research.



Specialist scientific techniques

THERAPEUTIC AREA				
Pain	CNS	General		
TECHNIQUE				
Quantitative Sensory Testing (QST) • Thermal Thresholds/ Tolerance • Pressure Pain Threshold/ Tolerance • Stimulus-induced pain • Pain Matching • Hyperalgesia/Allodynia	**Cognitive Testing** • Neuropsychological Assessment • Psychometric Assessment	**Imaging** • PET, fMRI, MRS • Collaboration with local imaging centre	**Exercise Testing**	**Platelet Aggregometry**
Focused Analgesia Selection Test	**Saccadic Eye Movements**	**Laser Doppler Flowmetry**	**Continuous pH monitoring**	**Glucose Tolerance Testing**
Nerve Conduction	**Postural Stability**	**Actigraphy**	**Continuous Core/ Skin Temperature Monitoring**	**Subjective Rating Scales** • Mood • Personality • Abuse Liability • Sleep
Pain Rating Scales	**EEG**	**Respiratory Function Testing** • Basic Spirometry • Flow Loops • Challenge Studies	**Bleeding Time**	
Human Pain Models	**Evoked Potentials**		**Punch Biopsy**	
	Pupillometry			

Our approach to minimising the placebo response

In clinical trials the placebo response happens when patients/healthy subjects in the 'placebo' arm of the study show significant improvements in their condition/response to an experimental model.

MAC conducts placebo response training with all front-end staff, to ensure they understand what it is and what the implications are for data output as well as other methods such as:

Ensuring appropriate patient selection for minimum risk:

Patient Training
- Managing their expectations.
- Removing influences.

Modifying our Patient Interactions
- Keeping neutral behaviour towards patients.
- Controlled environment that is comfortable but not 'overcaring'.

Optimal Study Design
- Standardised information conveyed to subjects to regularise expectation.
- Appropriate logistics (number of groups/group size) and timing (pharmacodynamics).
- Appropriate measures (mix of objective and subjective endpoints) and baseline inclusion criteria.
- Reduce overall group variability as much as possible.
- Use only highly trained testers for subject ratings, try to stick to the same tester per patient.
- Limit principal rater access to patient information, AEs etc. Limit contact to test sessions (blinded raters).

MAC EnVision®
Specialised In-House Recruitment

Patient recruitment remains a key challenge in clinical research, often leading to inefficiencies and delays. At MAC, we strive to overcome these issues and deliver quick and accurate recruitment solutions.

Our highly effective recruitment centre, MAC EnVision®, uses science-driven insights paired with innovative software and a team of specialists to find volunteers and patients with accuracy and precision.

Patient recruitment and retention expertise

- Centralised and field-based recruitment team with expertise in targeted advertising and recruitment strategies.
- Dedicated therapy-specific recruitment and healthy volunteer teams.
- Marketing and Media Teams with specialist skillsets in outreach channels use integrated campaigns to raise awareness of research.
- Access to multiple databases including our own comprehensive database of over 100k patients and volunteers, in addition to NHS FarSite, a database specific to clinical trial recruitment.

> “Staff made me feel comfortable, informed, and relaxed throughout the entirety of the trial, completely overriding my initial concerns about clinical trials. The experience has been such a positive one.”
>
> **Patient testimonial**

> “My experience at MAC has been excellent. All of the staff have been very friendly and accommodating. I will be making myself available for further studies.”
>
> **Patient testimonial**

MAC Clinical Research
Your dedicated partner in clinical research

Strong track record and reputation with over 30 years of experience

Access to a wide reach of patients and volunteers

- Specialist in-house recruitment
- Multiple points of contact and engagement
- Access to almost 35 million people within 20 minutes of our facilities
- 7 million people and 27 universities within 1 hour of MAC EPU

High-performing recruitment deliverables

- Consistently outperforming other sites and countries
- We're often used as a rescue site for other studies

Quality data

- Expert team of statisticians and analysts
- Purpose-built software platform

Expertise

- Accurate feasibility and patient delivery
- Study execution delivered within time, quality, and budget expectations

Science at the heart *of everything we do*

MAC Clinical Research is one of Europe's largest contract research organisations (CRO), taking a science-based approach to clinical research.

Our experienced clinical and medical teams are capable of managing even the most complex studies, with Early Phase and Late Phase capabilities, and providing the best quality data for your research.

Headquartered in the UK with offices globally, we conduct studies both through our fully-owned network of dedicated research sites in the UK and through contracting with sites across the globe. We offer the global clinical study management you need to meet your clinical outcome goals.

macplc.com

+44 (0) 161 275 9966

info@macplc.com

MAC Global Offices

United Kingdom – HQ

Kaman Court
1 Faraday Way
Blackpool
Lancashire FY2 0JH
United Kingdom

United Kingdom

Barnsley
Birmingham
Blackpool
Cannock
Glasgow
Leeds
Liverpool
Lytham St Annes
Manchester
Teesside

North America

Boston
Philadelphia
San Francisco
Toronto

Europe

Amsterdam
Barcelona
Brussels
Bucharest
Copenhagen
Dublin
Krakow
Lisbon
Munich
Paris
Prague
Stockholm
Zurich

Rest of World

Karachi
Sydney
Tel Aviv

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