



Central Nervous System (CNS)



MAC is the neuroscience centre of excellence in the UK



73% of all studies we conduct fall within a CNS therapeutic area



Our medical leadership team share **80+** years experience in clinical research and drug development



We have conducted a total of **175** CNS studies in **19** different indications

CNS Study Experience

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 Order
- 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

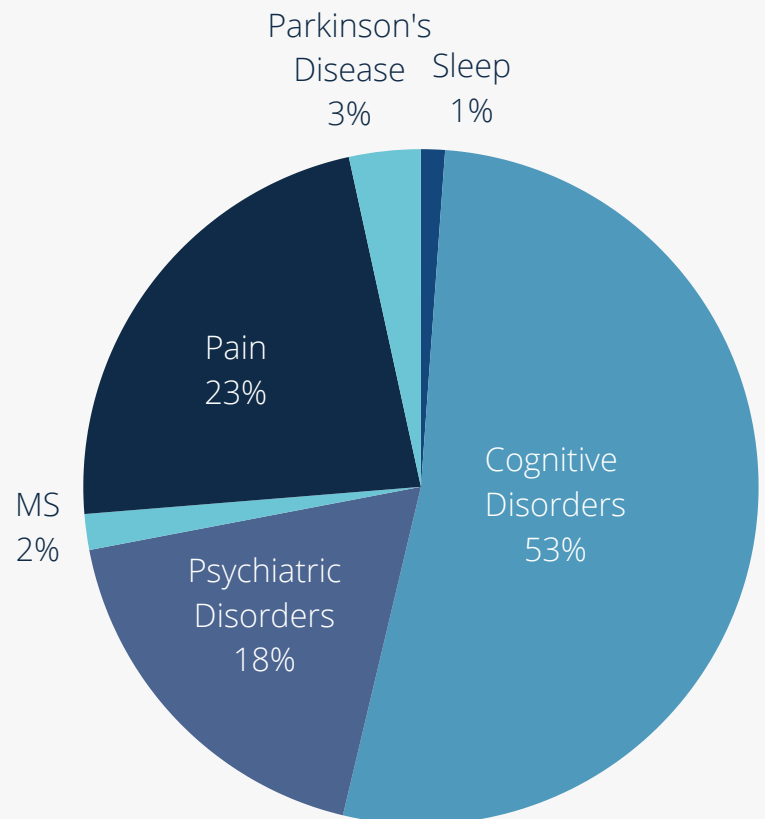
- Insomnia with Depression
- Narcolepsy

Parkinson's Disease

- Mild to moderate Parkinson's Disease

Multiple Sclerosis

- Spasticity in MS



CNS Expertise

- ✓ CNS is one of the key therapeutic areas of research conducted at MAC Clinical Research. In fact, we are recognised as a CNS Centre of Excellence.
- ✓ We specialise in the diagnosis of neurodegenerative disorders, with a particular focus on very early onset dementias MCI/Mild AD, along with those with potential genetic causes.
- ✓ Our experience spans all areas of CNS research; Manic Depressive Disorder (MDD), Anxiety Disorder, Panic Disorder, Treatment Resistant Depression (TRD), Post Traumatic Stress Disorder (PTSD), Parkinson's Disease (PD), Cognitive disorders that include Alzheimer's Disease (AD), Mild Cognitive Impairment (MCI), Multiple Sclerosis, Sleep Disorders and many more.
- ✓ We have therapeutic specialty expertise in psychiatric research, conducting trials from first-in-human (FIH) to clinical proof of concept in patients. Our clinical expertise is augmented by CNS experienced medical and clinical staff, including expert psychiatrists.
- ✓ Since 2005, we have been involved in designing, executing, and analysing several pain syndrome trials. Our team has experience investigating a range of diverse pharmacological classes and non-addictive pain compounds with novel modes of action.
- ✓ We are highly experienced in conducting FIH/early phase/POC studies with small molecules, large molecules, disease modifying agents and vaccines in MCI/Mild AD, MS, PD, MDD and other psychiatric conditions . We have full capabilities for in-house residential patient stays and a team of consultants/ specialists including neurologists. anesthetists and psychiatrists.
- ✓ We have extensive experience in conducting CSF sampling procedures for biomarker collection in Healthy Volunteers, MCI/ Mild AD, and PD patients.
- ✓ Our Imaging capabilities includes PET, MRI, ASL-MRI, and CT.

Our Medical and Scientific 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

Psychedelics

We have vast experience in testing psychedelic and dissociative compounds as potential treatment options for CNS indications

WE HAVE CONDUCTED **14** PSYCHEDELIC & DISSOCIATIVE DRUG STUDIES

We are proud to be the first company to



- ✓ Dose Ibogaine in a clinical environment in the UK
- ✓ Dose 50mg Psilocybin
- ✓ Dose Deuterated DMT (IV/IM)

Our experience in psychedelic research is complemented by our rich history and expertise in conducting CNS studies

- ✓ We have specialised research facilities for psychedelic testing including overnight capabilities.
- ✓ Our psychiatrists, therapist and facilitators oversee psychedelic treatments and monitor patients for psychological distress throughout the experience.



[For more information on our psychedelics experience click here](#)

MAC Clinical Research

- ✓ Over 30 years' experience in conducting clinical studies
- ✓ Full-service CRO with global reach
- ✓ 10 fully-owned research facilities in the UK
- ✓ Experts in healthy volunteer and patient recruitment



5-year summary

120+

SPONSORS

250+

STUDIES

50+

INDICATIONS

20+

FIH STUDIES

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

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