

## First Subject Implanted in Mainstay Medical's ReActiv8-B Clinical Trial for Treatment of Chronic Low Back Pain

*Trial to gather data in support of an application for US pre-market approval (PMA)*

**Dublin – Ireland, 6 October 2016** – Mainstay Medical International plc (“**Mainstay**” or the “**Company**”, Euronext Paris: MSTY.PA and ESM of the Irish Stock Exchange: MSTY.IE), a medical device company focused on bringing to market ReActiv8®, an implantable neurostimulation system to treat disabling Chronic Low Back Pain (“**CLBP**”), announces that the first subject in the ReActiv8-B Clinical Trial (the “**Clinical Trial**”) has been implanted with ReActiv8.

The first subject was implanted at the Monash House Private Hospital in Melbourne, Australia by Dr. Bruce Mitchell, a sports and interventional pain physician.

Dr. Mitchell commented: *“Following our positive experience in the ReActiv8-A trial, we are very excited to be part of this pivotal trial to support a PMA in the US. Many of our patients have been suffering from chronic low back pain for years and have exhausted all available treatment options. ReActiv8 allows us to offer them a new, unique approach which addresses the cause of pain rather than just the symptoms.”*

The ReActiv8-B Clinical Trial is intended to gather data in support of an application for pre-market approval (PMA) from the US Food and Drug Administration (FDA), a key step towards commercialization of ReActiv8 in the US.

As the Clinical Trial progresses, the information at <https://clinicaltrials.gov/show/NCT02577354> will be updated.

ReActiv8 is designed to electrically stimulate the nerves responsible for contracting muscles which stabilize the lumbar spine. Activation of these muscles to restore functional stability has been shown to facilitate recovery from CLBP. Mainstay received CE Marking for ReActiv8 in May 2016 based on positive results from the ReActiv8-A Clinical Trial that demonstrated a clinically important, statistically significant and lasting improvement in pain, disability and quality of life in people with disabling CLBP and few other options.<sup>1</sup>

Peter Crosby, CEO of Mainstay, commented: *“The implant of the first subject in the ReActiv8-B Clinical Trial represents further significant progress for Mainstay. During a year in which we have obtained CE Mark for ReActiv8, triggering the start of European commercialization activities, and raised €30m of new capital in June, the ReActiv8-B Clinical Trial provides further traction for our route to market in the US.”*

### ReActiv8-B Clinical Trial

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<sup>1</sup> Please refer to the Company's web site for the Press Release of 20 September 2016 with details of results of the ReActiv8-A Clinical Trial and follow-up data after a one-year period.

The ReActiv8-B Clinical Trial is an international, multi-center, prospective randomized sham controlled blinded trial with one-way crossover, conducted under an Investigational Device Exemption (IDE). The statistical design of the Clinical Trial requires data from the pivotal cohort of 128 randomized subjects at the 120-day primary outcome assessment visit.

The primary efficacy endpoint of the ReActiv8-B Clinical Trial is a comparison of responder rates between the treatment and control arms. The Clinical Trial will be considered a success if there is a statistically significant difference in responder rates between the treatment and control arms. The Clinical Trial, if successful, will provide Level 1 Evidence of efficacy of ReActiv8, which may be used to support applications for favourable reimbursement in the US. Evidence from the ReActiv8-B Trial will also be used to support market development activities worldwide.

Based on experience with enrolment in the ReActiv8-A Clinical Trial, it is estimated that full enrolment in the ReActiv8-B Clinical Trial will take 12 to 18 months from first enrolment, with results anticipated to be available approximately six months following full enrolment.

***CAUTION – in the United States, ReActiv8 is limited by federal law to investigational use only.***

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**About Mainstay**

Mainstay is a medical device company focused on bringing to market an innovative implantable neurostimulation system, ReActiv8®, for people with disabling Chronic Low Back Pain (CLBP). The Company is headquartered in Dublin, Ireland. It has subsidiaries operating in Ireland, the United States, Australia and Germany, and its ordinary shares are admitted to trading on Euronext Paris (MSTY.PA) and the ESM of the Irish Stock Exchange (MSTY.IE).

**About the ReActiv8-B Clinical Trial**

The ReActiv8-B Clinical Trial is an international, multi-center, prospective randomized sham controlled blinded trial with one-way crossover conducted under an Investigational Device Exemption (IDE). The ReActiv8-B Clinical Trial is designed to generate data to form part of the Pre-Market Approval Application (PMAA) of ReActiv8 to the FDA. Further details can be found at <https://clinicaltrials.gov/show/NCT02577354>

**About Chronic Low Back Pain**

One of the recognised root causes of CLBP is impaired control by the nervous system of the muscles that dynamically stabilise the spine in the low back, and an unstable spine can lead to back pain. ReActiv8 is designed to electrically stimulate the nerves responsible for contracting these muscles and thereby help to restore muscle control and improve dynamic spine stability, allowing the body to recover from CLBP.

People with CLBP usually have a greatly reduced quality of life and score significantly higher on scales for pain, disability, depression, anxiety and sleep disorders. Their pain and disability can persist despite the best available medical treatments, and only a small percentage of cases result from an identified pathological condition or anatomical defect that may be correctable with spine surgery. Their ability to work or be productive is seriously affected by the condition and the resulting days lost from work, disability benefits and health resource utilisation put a significant burden on individuals, families, communities, industry and governments.

Further information can be found at [www.mainstay-medical.com](http://www.mainstay-medical.com)

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**Forward looking statements**

This announcement includes statements that are, or may be deemed to be, forward looking statements. These forward looking statements can be identified by the use of forward looking terminology, including the terms “anticipates”, “believes”, “estimates”, “expects”, “intends”, “may”, “plans”, “projects”, “should”, “will”, or “explore” or, in each case, their negative or other variations or comparable terminology, or by discussions of strategy, plans, objectives, goals, future events or intentions. These forward looking statements include all matters that are not historical facts. They appear throughout this announcement and include, but are not limited to, statements regarding the Company’s intentions, beliefs or current expectations concerning, among other things, the Company’s results of operations, financial position, prospects, financing strategies, expectations for product design and development, regulatory applications and approvals, reimbursement arrangements, costs of sales and market penetration.

By their nature, forward looking statements involve risk and uncertainty because they relate to future events and circumstances. Forward looking statements are not guarantees of future performance and the actual results of the Company’s operations, and the development of its main product, the markets and the industry in which the Company operates, may differ materially from those described in, or suggested by, the forward looking statements contained in this announcement. In addition, even if the Company’s results of operations, financial position and growth, and the development of its main product and the markets and the industry in which the Company operates, are consistent with the forward looking statements contained in this announcement, those results or developments may not be indicative of results or developments in subsequent periods. A number of factors could cause results and developments of the Company to differ materially from those expressed or implied by the forward looking statements including, without limitation, the successful launch and commercialisation of ReActiv8, the progress and success of the ReActiv8-B Clinical Trial, general economic and business conditions, the global medical device market conditions, industry trends, competition, changes in law or regulation, changes in taxation regimes, the availability and cost of capital, the time required to commence and complete clinical trials, the time and process required to obtain regulatory approvals, currency fluctuations, changes in its business strategy, political and economic uncertainty. The forward-looking statements herein speak only at the date of this announcement.