



# RCSI

ROYAL COLLEGE OF SURGEONS IN IRELAND

COLÁISTE RÍOGA NA MÁINLEÁ IN ÉIRINN

## Grant/Fellowship Report Form

<b>Fellowship/Grant Holder Name</b>	Adam Daly
<b>Brief biography, including qualification and year of graduation (no more than 100 words)</b>	Undergraduate Medicine degree (MB BCh BAO), UCD, 2013 Postgraduate Master of Surgery degree (MCh), RCSI 2016 Basic Surgical and Higher Surgical training commencing 2014 and 2016 respectively Member European Board of Cardiothoracic Surgery (MEBCTS) 2020 Fellowship Royal College of Surgeons in Ireland, Cardiothoracic Surgery (FRCS, CTh) 2021 René G. Favaloro Fellow of the Year, Cleveland Clinic, 2022
<b>Title of Project/Fellowship</b>	Advanced Aortic and Endovascular Surgery Cleveland Clinic, Cleveland, Ohio, USA
<b>Year of Award:</b> <b>Commencement Date:</b> <b>Conclusion Date:</b>	2022 July 2021 June 2023

### Summary (no more than 250 words)

Cleveland Clinic is the number 1 ranked cardiac surgery programme in the United States for the past 27 years. The aortic programme is the largest programme in North America, with the highest case-mix complexity and with the best outcomes. The formal Advanced Aortic and Endovascular is one of the premier Aortic Fellowships worldwide enabling fellows to become competent the whole spectrum of aortic conditions ranging from complex revision aortic surgery to endovascular surgery, treating both acute and chronic conditions of the aortic root, ascending aorta, arch and descending aorta. The fellowship enables fellows to train in complex open, hybrid and total endovascular surgery to subspecialist level. Leadership training, programme development training and academic opportunities permit those on the Advanced Aortic and Endovascular Fellowship to climb to hold a reputation on an international stage in Aortic Surgery.

**Grant Report (in the region of but no more than 500 words)**

Objectives of Project/Fellowship:

Clinical;

Develop expertise in the following areas;

- complex open and redo surgery including aortic root and arch surgery. Specifically valve-sparing aortic root surgery, aortic root enlargement, Branched Stented Anastomosis Frozen Elephant Trunk (BSAFER) arch replacement, aortic debranching procedures, thoracoabdominal aortic aneurysm repair.
- Ancillary techniques for complex surgery including Deep Hypothermic Circulatory Arrest (DHCA), axillary cannulation, myocardial/cerebral/spinal cord/end-organ protection techniques, mechanical circulatory supported surgery including ECMO, Impella 5.5 support
- Hybrid and total endovascular surgery including aortic debranching, zone 0 TEVAR for acute dissection, zone 1-9 TEVAR, intravascular ultrasound, management of persistent false lumen including Balloon Fracture Fenestration, Bare metal stenting, false lumen embolization

Academic & Educational;

- complete a minimum of one project, publish in a significant journal and present on an international platform such as AATS
- become involved in a clinical trial
- develop educational material including publishing book chapters and educational videos in the field of aortic surgery
- organise and host a national aortic surgery

Leadership

- undergo leadership training in Cleveland Clinic

Did you achieve these objectives?

Yes

In your opinion, what is the value of your award to:

(a) Yourself

This fellowship award enabled me to develop subspecialist expertise in complex open, hybrid and total endovascular open surgery including the techniques as aforementioned. The fellowship enabled me to develop my academic profile, present on multiple occasions on international platforms and contribute to the literature including publishing book chapters. Furthermore, I was enabled to develop relationships and a network including the current world-leading experts in aortic surgery and also with the rising stars of cardiac surgery world-wide.

(b) The institution in which you worked

The award enabled me to focus on my commitments at Cleveland Clinic and to spend additional time taking advantage of the opportunities available. The institution therefore was able to benefit from my undivided clinical and academic attention resulting in multiple publications, presentations and further representation on multiple fora. Furthermore, the institute may enjoy future fellows from Ireland training in subspecialist cardiac surgery practice.

(c) In the future for Irish patients

The fellowship will directly benefit patients by enabling access to certain treatments not currently available in Ireland, access to endovascular surgery and cutting-edge techniques (such as Branched Stented Anastomosis Frozen Elephant Trunk procedure), with the highest safety and patient outcome profile, learned from one of the world's leading cardiovascular institutes.