

ARTHROPLASTY FOR ARTHRITIS CHARITY

CHARITY NO.: 1051165

ANNUAL REPORT AND FINANCIAL STATEMENTS

FOR THE YEAR ENDED 30 NOVEMBER 2020

Arthroplasty for
Arthritis Charity



ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**ANNUAL REPORT AND FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

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ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**GENERAL INFORMATION
FOR THE YEAR ENDED 30 NOVEMBER 2020**

Name:	Arthroplasty for Arthritis Charity
Registration Number:	1051165
Address:	57 Callicroft Road Patchway Bristol BS34 5BU
Bankers:	National Westminster Queen's Road Branch 40 Queen's Road Bristol BS8 1BF
Solicitors:	TLT 1 Redcliffe Street Bristol BS1 6TP
Trustees:	Dr Daniela Smith Dr Diana Pomeroy Dr David Coates Mr Jeremy Latham Mr Roger Proctor
Director:	Mr Evert Smith Consultant Orthopaedic Surgeon
Research Committee:	Dr Peter Lachman Prof Ian Clarke

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**OBJECTS AND POLICIES OF THE CHARITY
FOR THE YEAR ENDED 30 NOVEMBER 2020**

The Charity was established by Trust Deed in 1994 and the name and objects were widened in 2012:

- 1) To advance education into arthritis, joint replacements and trauma, with particular emphasis on hip replacement surgery.
- 2) To promote research into arthritis, joint replacement surgery and trauma, with a particular emphasis on hip replacements.
- 3) To disseminate the useful results of such research.

In order to further these objects the Charity will:

- 1) Undertake and manage research programmes.
- 2) Publish and disseminate the results of that research.
- 3) Undertake presentations on the results of the research.
- 4) Organise conferences, seminars and courses on relevant topical issues.

The Charity will operate in England and Wales but the beneficial area is national and international.

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

DIRECTOR'S REPORT
FOR THE YEAR ENDED 30 NOVEMBER 2020

The Charity, in association with the Royal Academy of Culinary Arts, held a successful, well received event at The Ritz in February 2020. This event was held, not only as a fund raising exercise, but also to maintain public relations and links with sponsors. The Ritz was very gracious in allowing us to use one of its sumptuous rooms, and also provided superb canapes.

Sadly, shortly after this, the world changed drastically and COVID-19 invaded our lives.

Medical interventions concentrated on emergency procedures and routine elective work faded into the background. University departments and orthopaedic research slowed down dramatically. Funding for charities all but dried up, although we maintained our exposure and our message to trusts by submitting applications with ongoing enthusiasm. Trustee meetings continued on Zoom and we appointed a new trustee.

It is difficult to predict when fund raising activities might return to normal, but the work and aims of the charity will be maintained.

All projects previously funded have run their course. The Universities of Bath and Southampton have both generated excellent research with several international publications and presentations. Additional publications have been submitted and are awaiting assessment and approval, but this is proving arduous and progress is slow in the current climate.

The principal aims of the charity remain the evaluation of different bearing surfaces, development of new technologies and research concerning design improvements. In the light of these principles we received several applications involving aspects of musculoskeletal research. We considered two of these in depth.

Dr David Langton, Director of ExplantLab and in conjunction with the University of Newcastle, is leading the project entitled '***Developing a novel algorithm to predict the risk of metal-on-polyethylene joint replacement failure.***'

The immune response is critical to the clinical success of an implant. But this response, from a genetic stance, is poorly understood. To date, scant research has examined the influence of immunogenetics on a patient's propensity to develop osteolysis following implantation with a metal or ceramic-on-polyethylene (MoP/CoP) joint replacement prostheses.

The long-term survival of a prosthesis is determined by the host immune response to debris which is shed from the components. The more a replacement joint is used (the more active the patient), the greater the volume of wear debris that is generated. For MoP joints, the plastic (polyethylene) wear debris shed into the surrounding tissues provokes a response called osteolysis, where the bone is damaged and resorbed and, as a result, the implanted components loosen. This is the main mechanism which limits the lifespan of a replacement prosthesis.

Research on the immune characteristics of individual patients has not, as yet, been forthcoming.

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**DIRECTOR'S REPORT
FOR THE YEAR ENDED 30 NOVEMBER 2020**

ExplantLab have carried out extensive research, and continue to research, the manufacturing, design and surgical variables associated with success or failure of joint replacements. With this background knowledge, they are now extending their studies to include the complexities of the immune response.

Professor Alister Hart of the Royal National Orthopaedic Hospital, proposed the project ***'Improving People's Lifestyle: from Couch to...'*** to further investigate the effects of exercise on the musculoskeletal system, with or without joint replacements.

The novel coronavirus disease 2019 (COVID-19) has had a major impact on physical activity behaviours globally and many people around the world have been forced to isolate and reduce social activities. The NHS has urged people to keep going if they started exercising during the lockdown and hailed running as good for physical and mental health. The NHS 'Couch to 5 km' running App/programme is a 10-week running scheme that takes a couch potato up to the target of 5km or 30-minute run, three times per week. Although there are many reports on the health benefits of these programmes, few of these have been subjected to rigorous scientific examination, and there is a need for more research in this area.

Many people do not realise that physical activity has significant benefits for health, both physical and mental, and can help to prevent and manage chronic conditions, including some cancers, heart disease, type 2 diabetes, depression and arthritis. Inactive people are at increased risk of developing a painful musculoskeletal (MSK) condition. Physical inactivity is responsible for one in six UK deaths (equal to smoking) and is estimated to cost the UK £4.7 billion annually (including £0.9 billion to the NHS alone); it is also the 4th leading risk factor for global mortality, accounting for 6% of deaths globally.

There have not been imaging studies (hip or knee) assessing the effect of these programmes and thus it is unknown if the recommendations are good or bad for the MSK system.

By applying medical research techniques on a significant scale, this application is to further develop and understand MSK imaging studies of active and inactive individuals, with and without prosthetic joints.

We continue to be grateful to the Tompkins Foundation for their generous ongoing support and also our other regular donors who have helped to keep us going during these difficult times.

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS FOR THE YEAR ENDED 30 NOVEMBER 2020

Publications 2015-2020

Koutalos A, Kourtis A, Clarke IC, Smith EJ

Mid-term results of Recap/Magnum/Taperloc metal-on-metal total hip arthroplasty with mean follow-up of 7.1 years
Hip Int 2016; 00 (00): 000-000 DOI: 10.5301/hipint.5000454

Scholes SC, Hunt BJ, Richardson VM, Langton DJ, Smith E, Joyce TJ

Explant analysis of the Biomet Magnum/ReCap metal-on-metal hip joint
Bone Joint Res 2017;6:113–122

Ian C. Clarke, Thomas Halim, Evert J. Smith, Thomas K. Donaldson

Acetabular Cups in 60 mm Metal-on-Metal Bearings Subjected to Dynamic Edge-Loading with 70° Peak-Inclination in 10-Million Cycle Simulator Study
Lubricants 2018, 6, 1; doi:10.3390/lubricants6010001

Donaldson, TK., Smith EJ., Koutalos A., John, A., Lazennec JY. and Clarke, IC

Adverse wear in MOM hip-arthroplasty related to the production of metal fragments at impingement sites
OJO Vol. 8, No. 10, October 2018 - <http://www.scirp.org/journal/ojo>

Elsissy JG, Clarke IC, John A, Smith EJ Donaldson TK

The significance of adverse 3rd-body wear damage in the failure of metal-on-metal bearings used in resurfacing and total-hip arthroplasty
ACTA Scientific Orthopaedics, Vol 1, Issue 1, Oct 2018

AM Ebied, A Ebied, S Marei, E Smith

Enhancing biology and providing structural support for acetabular reconstruction in single-stage revision for infection
Journal of Orthopaedics and Traumatology - Open Access: Ebied et al. J Orthop Traumatol (2019) 20:23
<https://doi.org/10.1186/s10195-019-0530-6>

Koutalos AK, Toms AP, Cahir JG, Smith EJ

Correlation of MARS MRI findings with cup position, metal ion levels and function in metal on metal total hip arthroplasty
Hip Int 2019; HIPINT-D-17-00232R1 - August 2019

Koutalos AK, Toms AP, Cahir JG, Smith EJ. *Correlation of MARS MRI findings with cup position, metal ion levels and function in metal on metal total hip arthroplasty*
Hip Int 2019; HIPINT-D-17-00232R1 – August 2019

Ebied AM, Ebied A, Marei S, Smith E.

Enhancing biology and providing structural support for acetabular reconstruction in single-stage revision for infection .
Journal of Orthopaedics and Traumatology - Open Access: Ebied et al. J Orthop Traumatol 2019; 20:23
<https://doi.org/10.1186/s10195-019-0530-6>

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

Publications 2015-2020 (continued)

Evert J Smith

Year of the Mask COVID-19 Challenges for Orthopaedic Surgery.

Reconstructive Review, Journal of Joint Implant Surgery and Research Foundation (JISRF) 2020;

<https://doi.org/10.15438/rr.10.1.241>

Clarke IC, Lezennec JY, Smith EJ, Donaldson TK. Prosthetic Impingement in Total Hip Arthroplasty—The Trigger for Adverse Wear. Open Journal of Orthopedics 2020; 10: 321-358.

<https://www.scirp.org/journal/ojo>

Abstract Publications 2015-2020

Scholes SC, Smith E, Joyce TJ

Explant analysis of the Biomet Magnum/ReCap metal-on-metal hip joint

Institute of Mechanical Engineers

Institute of Mechanical Engineers 2015

Koutalos A, Kourtis A, Clarke I, Smith E

Midterm Results Of ReCap/Magnum Metal-On-Metal Total Hip Arthroplasty With Mean follow-up of 7.1 years

European Hip Society 12th Congress

Hip Int 2016; 26 (Suppl 2): S3-S55 DOI: 10.5301/hipint.5000450 Page 11 & 12

Ian C. Clarke, Evert J. Smith, Thomas K. Donaldson

Adverse MOM wear mechanisms are triggered by release of large metal particles during MOM impingement episodes

European Hip Society 13th Congress

Hip International 2018 No. 271 Oral Presentation

Session ID: O23 Metal ion release & tribology

The Hague - 21.09.2018

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**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

Presentations 2018 to 2019

Smith EJ

Hips

Physio, Osteopath and Chiropractor Education Day

Bristol - March 2018

Smith EJ

Extensive Exposure of the Hip - Tips and Tricks

Mayo Arthroplasty Conference

Westport - April 2018

Smith EJ

Taking a walk; new joints for old in the lower limb

Clifton Club

Bristol - April 2018

Smith EJ

Cemented or uncemented Total Hip Arthroplasty - How to decide?

1st International Hip & Knee Arthroplasty Symposium

Larissa - April 2018

Smith EJ

A fatuous argument - Cemented or Cementless THA

Thessaloniki University - Visiting Academic Lecture Programme

Larissa - April 2018

Smith EJ

From the witness box - Metal on Metal

Thessaloniki University - Visiting Academic Lecture Programme

Larissa - April 2018

Smith EJ

Exposures of the hip - Tips and Tricks

Thessaloniki University - Visiting Academic Lecture Programme

Larissa - April 2018

Smith EJ

When to Revise Metal on Metal Bearings?

18th EFORT Congress

Vienna – June 2018

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**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

Presentations 2018 to 2019 (continued)

Smith EJ

Exceed ABT

6th International GOSICON

Delhi - September 2018

Smith EJ

Approaches to the Hip - What's New?

6th International GOSICON

Delhi - September 2018

Smith EJ

New Trends in Acetabular Revision

6th International GOSICON

Delhi - September 2018

Smith EJ

Approaches to the Hip - What's New?

Karnataka Orthopaedic Association

Bengaluru - September 2018

Smith EJ

Early developments and results of RA

13th EHS Congress

The Hague - September 2018

Ian C. Clarke, Evert J. Smith, Thomas K. Donaldson

Adverse MOM wear mechanisms are triggered by release of large metal particles during MOM impingement episodes

European Hip Society 13th Congress

No. 271 Oral Presentation

Session ID: O23 Metal ion release & tribology

The Hague - 21.09.2018

Smith EJ

Hip Arthroplasty - A brief encounter

GP Lectures - Litfield House Medical Centre

Bristol - October 2018

Clarke IC, Donaldson TK, John A, Koutalos AA, Lazennec JY, Smith EJ

One-hour address 'Trunnionosis vs Impingement'

Japanese Arthroplasty Conference

Tokyo - February 2019

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**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

Presentations 2018 to 2019 (continued)

EJ Smith

How successful are cemented hip replacements / Survival of cementless THR? - Joint Registry data

EEMEA Cementless Hip Symposium

Amsterdam - June 2019

EJ Smith

Temporal change in the use of cementless femoral stems

EEMEA Cementless Hip Symposium

Amsterdam - June 2019

EJ Smith

DDA, DSA or SPAIRE - What are the considerations?

EEMEA Cementless Hip Symposium

Amsterdam - June 2019

Smith EJ

DDA, DSA or SPAIRE - What are the considerations?

EEMEA Cementless Hip Symposium - Amsterdam Skill Centre

Amsterdam - 2019

Smith EJ

Stubbies - The future

EEMEA Cementless Hip Symposium - Amsterdam Skill Centre

Amsterdam - 2019

Smith EJ

How successful are cemented hip replacements? / Survival of cementless THR - Joint Registry data

EEMEA Cementless Hip Symposium - Amsterdam Skill Centre

Amsterdam - 2019

Smith EJ

Temporal change in the use of cementless femoral stems

EEMEA Cementless Hip Symposium - Amsterdam Skill Centre

Amsterdam - 2019

Contributions to books

Clarke IC, Lazennec J, Smith EJ, Sugano N, McEntire, B, Pezzotti, G

Ceramic Chapter in: Ceramic-on-Ceramic Bearings: Clinical Wear Modes Compared to Simulator Wear Tests.

In Sonntag R, Kretzer JP, ed. Materials for Joint Arthroplasty - Biotribology of Potential Bearings: Imperial College Press; 2015

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**STATEMENT OF INCOME AND EXPENDITURE
FOR THE YEAR ENDED 30 NOVEMBER 2020**

	General Funds	Restricted Funds	Total 2020	Total 2019	Note
INCOMING RESOURCES					
Donations/Grants	29,501	-	29,501	41,178	
Fundraising	9,800		9,800		3
Gifts in Kind	20,500	-	20,500	20,500	4
Interest	20	-	20	19	5
	<u>59,821</u>	<u>-</u>	<u>59,821</u>	<u>61,697</u>	
RESOURCES EXPENDED					
Research costs	30,500	-	30,500	20,500	4
Fundraising	3,962	-	3,962		3
Marketing & PR	391	-	391	165	6
Administration costs	2,506	-	2,506	2,315	7
	<u>37,359</u>	<u>-</u>	<u>37,359</u>	<u>22,980</u>	
NET SURPLUS/(LOSS) FOR YEAR	<u>22,462</u>	<u>-</u>	<u>22,462</u>	<u>38,717</u>	
RETAINED SURPLUS at beginning of year	308,682	-	308,682	269,965	
RETAINED SURPLUS at end of year	<u>331,144</u>	<u>-</u>	<u>331,144</u>	<u>308,682</u>	

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**BALANCE SHEET
AS AT 30 NOVEMBER 2020**

	General Funds	Restricted Funds	Total 2020	Total 2019	Note
FIXED ASSETS					
Computer equipment	129	-	129	386	8
CURRENT ASSETS					
Prepayments	-	-	-	956	
Short-term investments	19,406	-	19,406	19,391	9
Bank	311,909	-	311,909	288,449	
	<u>331,315</u>	<u>-</u>	<u>331,315</u>	<u>308,796</u>	
TOTAL ASSETS	<u>331,444</u>	<u>-</u>	<u>331,444</u>	<u>309,182</u>	
CURRENT LIABILITIES					
Accounts payable & accruals	300	-	300	500	
TOTAL LIABILITIES	<u>300</u>	<u>-</u>	<u>300</u>	<u>500</u>	
ASSETS LESS LIABILITIES	<u>331,144</u>	<u>-</u>	<u>331,144</u>	<u>308,682</u>	
RESERVES					
Retained surplus	331,144	-	331,144	308,682	
TOTAL RESERVES	<u>331,144</u>	<u>-</u>	<u>331,144</u>	<u>308,682</u>	

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

NOTES TO FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 NOVEMBER 2020

1. Accounting Policies

(a) Basis of preparation:

The financial statements have been prepared under the historic cost convention in accordance with the Statement of Recommended Practice: Accounting and Reporting by Charities (SORP 2005) and the Charities Act 2011.

(b) Incoming resources and resources expended:

All incoming resources are recognised once the charity has entitlement to them, it is certain that the resources will be received and the monetary value can be measured with sufficient reliability.

Liabilities are recognised as resources expended as soon as there is a legal or constructive obligation committing the charity to the expenditure. All expenditure is accounted for on an accruals basis.

Grants payable and research costs are payments made to third parties in the furtherance of the objects of the charity. Provisions are made when the intention to make a payment has been communicated to the recipient but there is uncertainty about either the timing or the amount.

(c) Fixed assets and depreciation:

All assets costing more than £500 are capitalised and valued at historic cost. Assets are written off on a straight line basis over their estimated useful life.

(d) Fund accounting

Unrestricted funds are expendable at the discretion of the trustees in furtherance of the objects of the charity.

Restricted funds are donations earmarked by the donor for a specific purpose.

2. Trustees remuneration

The trustees do not receive remuneration for services rendered to the charity.

3. Fundraising income

Income from fundraising consists of the following:

	<u>2020</u>	<u>2019</u>
Ritz event	9,800	-
The related expense is disclosed as follows:		
Fundraising	3,962	-

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**NOTES TO FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

	<u>2020</u>	<u>2019</u>
4. Gifts in kind		
Gifts in kind are made up of the following:		
Director's time	20,500	20,500
The related expense is disclosed as follows:		
Research costs (director's time)	20,500	20,500
Other	10,000	-
	<u>30,500</u>	<u>20,500</u>

5. Interest

Interest on short-term investments (note 8)

	General	Restricted	Total	
The Co-operative Bank	-	-	-	4
Scottish Widows Bank	20	-	20	15
	<u>20</u>	<u>-</u>	<u>20</u>	<u>19</u>

6. Marketing & PR

Secretarial assistance	169	-
Just Giving	-	24
Other	222	141
	<u>391</u>	<u>165</u>

7. Administration costs

Computer expenses	225	944
Depreciation	257	257
Licences & subscriptions	152	117
Postage, office supplies, printing & stationery	524	74
Travel & subsistence	1,048	673
Accounting fees	300	250
	<u>2,506</u>	<u>2,315</u>

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**NOTES TO FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2020**

8. Fixed assets

	Cost	<u>2020</u> Acc Depn	Carrying Value
Computer Equipment	772	643	129

The carrying amounts of equipment can be reconciled as follows:

	Opening Balance	Additions	Disposals	Depreciation	Closing Balance
Computer Equipment	386	-	-	257	129

9. Short-term investments

			<u>2020</u>	<u>2019</u>
	General	Restricted	Total	
The Co-operative Bank	-	-	-	4
Scottish Widows Bank	19,406	-	19,406	19,387
	19,406	-	19,406	19,391

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

REPORT

Independent examiner's report to the trustees of the Arthroplasty for Arthritis Charity

I report on the accounts of the Arthroplasty for Arthritis Charity for the year ended 30 November 2020 which are set out on pages 10 - 15

Respective responsibilities of trustees and examiner

The charity's trustees are responsible for the preparation of the accounts. The charity's trustees consider that an audit is not required for this year under section 144(2) of the Charities Act 2011 (the 2011 Act) and that an independent examination is needed.

It is my responsibility to:

- examine the accounts under section 145 of the 2011 Act
- follow the procedures laid down in the general Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act; and
- to state whether particular matters have come to my attention.

Basis of independent examiner's report

My examination was carried out in accordance with the general Directions given by the Charity Commission. An examination includes a review of the accounting records kept by the charity and a comparison of the accounts presented with those records. It also includes consideration of any unusual items or disclosures in the accounts, and seeking explanations from you as trustees concerning any such matters. The procedures undertaken do not provide all the evidence that would be required in an audit and consequently no opinion is given as to whether the accounts present a "true and fair view" and the report is limited to those matters set out in the statement below.

Independent examiner's statement

In connection with my examination, no matter has come to my attention which gives me reasonable cause to believe that in any material respect the requirements:

- to keep accounting records in accordance with section 130 of the 2011 Act; and
 - to prepare accounts which accord with the accounting records and comply with the accounting requirements of the 2011 Act
- have not been met.



Name: EA Redelinghuys CA(SA)
Professional body: South African Institute of Chartered Accountants (Membership no.: 291175)
Address: 54 Worcester Road
Parkwood 2193
Johannesburg
South Africa
Date: 30 June 2021

