

ARTHROPLASTY FOR ARTHRITIS CHARITY

CHARITY NO.: 1051165

ANNUAL REPORT AND FINANCIAL STATEMENTS

FOR THE YEAR ENDED 30 NOVEMBER 2022

Arthroplasty for
Arthritis Charity



ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**ANNUAL REPORT AND FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

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ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**GENERAL INFORMATION
FOR THE YEAR ENDED 30 NOVEMBER 2022**

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 2022**

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.

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DIRECTOR'S REPORT FOR THE YEAR ENDED 30 NOVEMBER 2022

With the charity's remit to support musculoskeletal research, which includes the evaluation of bearing surfaces, the development of new technologies and research concerning design improvements in arthroplasty (joint replacement) surgery, we committed to funding two projects in 2020/2021. Both projects are 'works in progress' and continue to thrive. We receive regular reports and updates.

The project 'Developing a novel algorithm to predict the risk of metal-on-polyethylene joint replacement failure.' with Dr David Langton, Director of ExplantLab is thrilling, and we believe the outcome will have a seismic impact in the arena of arthroplasty.

ExplantLab are researching the variables associated with the success or failure of joint replacements, including the role of implant design, manufacturing and surgical technique. The complexities of the immune response and the influence of immunogenetics on a patient's propensity to develop arthritis are also being scrutinised.

The interim results of the research were presented at the BOA Annual Congress in September 2022. In addition, the Orthotype Test was launched at a breakout meeting at the Congress. The genetic test has been developed by ExplantLab to determine which patients are more likely to develop an adverse immune response to joint replacements. Orthotype are a unique set of genetic tests designed to improve patient management pre and post joint replacement surgery.

Dr David Langton and his researchers have received awards for their ground breaking research: Bone and Joint Journal Best Translational Research Prize at the British Hip Society Annual Meeting for the presentation "Is there a genetic predisposition to ALVAL?" and the British Hip Society McKee Prize for the presentation "Blood metal ion concentrations post hip resurfacing arthroplasty: a comparison study of the articular surface replacement and Birmingham hip resurfacing devices."

Since the first issue of the web based version of the open access journal Bone and Joint Research Journal the paper "Taper junction failure in large diameter metal on metal hip arthroplasty" has received the largest number of citations in the scientific literature.

We received a comprehensive update on the study investigating the effects of exercise on the musculoskeletal system, 'Improving People's Lifestyle: from Couch to...' which is being run by Professor Alister Hart, Dr Anna Di Laura and Dr Johann Henckel of the Royal National Orthopaedic Hospital NHS Trust and University College London.

The study will help to better understand the benefits and risks from exercising on the walking (hip abductor) muscles and hip joints of physically inactive individuals who undergo exercise. In the first 15 months, the researchers achieved the following: set up of the study; recruitment of 100 sedentary individuals; MRI scanning of the study participants in the initial stages of training, and at 6 and 12 months; collection of health questionnaires; data analysis (ongoing). Work has commenced on submitting two publications – one to the BMC Musculoskeletal Disorders Journal and another to the BMJ Open Sport and Medicine.

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**DIRECTOR'S REPORT
FOR THE YEAR ENDED 30 NOVEMBER 2022**

The study from Edinburgh University which we had hoped to support - 'Robotic Assisted Bicompartamental Knee Arthroplasty Vs manual Total knee Arthroplasty trial for two compartment osteoarthritis of the knee (RoBi-KAT)' was unable to commence due to difficulty recruiting study participants for elective surgeries.

A study undertaken by the University of Bath, led by Professor Richie Gill, and funded by the charity, was published in *Scientific Reports*. The publication date was 8 February 2022. The database can be sited as - Gill, R., Ehrhardt, B., Murphy, E., 2022. *Dataset for "Machine learning outperforms clinical experts in classification of hip fractures"*. Bath: University of Bath Research Data Archive.

(Available from: <https://doi.org/10.15125/BATH-01011.>)

Fund raising continues to be difficult but at a recent Trustees' meeting, and in ongoing correspondence via email/texts, the Trustees discussed ideas on strategies to promote and disseminate knowledge of the Charity – newsletter(s), blogs and a social media presence were all highlighted.

The possible need for a high profile sports person to be associated with the Charity was also raised. The Charity has been receiving a great deal of support and advice from agencies involved in advertising and website development, for which they are immensely grateful.

The Charity continues to be grateful to The Tompkins Foundation, the Wyseliot Rose Charitable Trust, The Inchcape Foundation and the Joseph Strong Frazer Trust.

The accounts remain in good order, with adequate funds to continue supporting the various research projects.

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

Publications 2018-2022

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 70Å°

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>

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**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

Publications 2018-2022 (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 2018-2022

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

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)

**PUBLICATIONS, PRESENTATIONS AND CONTRIBUTIONS TO BOOKS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

Presentations 2019 to 2022

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

One-hour address 'Trunnionosis vs Impingement'

Japanese Arthroplasty Conference

Tokyo - February 2019

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

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**STATEMENT OF INCOME AND EXPENDITURE
FOR THE YEAR ENDED 30 NOVEMBER 2022**

	General Funds	Restricted Funds	Total 2022	Total 2021	Note
INCOMING RESOURCES					
Donations/Grants	38,795	-	38,795	32,501	
Gifts in Kind	20,500	-	20,500	20,500	3
Interest	30	-	30	21	4
	<u>59,325</u>	<u>-</u>	<u>59,325</u>	<u>53,022</u>	
RESOURCES EXPENDED					
Research costs	22,408	-	22,408	125,500	3
The Hip Research Project	30,000	-	30,000	-	
Marketing & PR	-	-	-	136	5
Administration costs	763	-	763	1,488	6
	<u>53,171</u>	<u>-</u>	<u>53,171</u>	<u>127,124</u>	
NET SURPLUS/(LOSS) FOR YEAR	<u>6,154</u>	<u>-</u>	<u>6,154</u>	<u>(74,102)</u>	
RETAINED SURPLUS at beginning of year	257,042	-	257,042	331,144	
RETAINED SURPLUS at end of year	<u><u>263,196</u></u>	<u><u>-</u></u>	<u><u>263,196</u></u>	<u><u>257,042</u></u>	

ARTHROPLASTY FOR ARTHRITIS CHARITY (Charity no.:1051165)

**BALANCE SHEET
AS AT 30 NOVEMBER 2022**

	General Funds	Restricted Funds	Total 2022	Total 2021	Note
CURRENT ASSETS					
Short-term investments	19,457	-	19,457	19,427	7
Bank	244,039	-	244,039	237,915	
	263,496	-	263,496	257,342	
TOTAL ASSETS	263,496	-	263,496	257,342	
CURRENT LIABILITIES					
Accounts payable & accruals	300	-	300	300	
TOTAL LIABILITIES	300	-	300	300	
ASSETS LESS LIABILITIES	263,196	-	263,196	257,042	
RESERVES					
Retained surplus	263,196	-	263,196	257,042	
TOTAL RESERVES	263,196	-	263,196	257,042	

**NOTES TO FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

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. Gifts in kind

Gifts in kind are made up of the following:

	<u>2022</u>	<u>2021</u>
Director's time	20,500	20,500

The related expense is disclosed as follows:

Research costs (director's time)	20,500	20,500
Other	1,908	105,000
	<u>22,408</u>	<u>125,500</u>

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**NOTES TO FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 NOVEMBER 2022**

2022 2021

4. Interest

Interest on short-term investments (note 8)

	General	Restricted	Total	
Scottish Widows Bank	30	-	30	21
	<u>30</u>	<u>-</u>	<u>30</u>	<u>21</u>

5. Marketing & PR

Website		136
	<u>-</u>	<u>136</u>

6. Administration costs

Computer expenses	150	190
Depreciation	-	129
Licences & subscriptions	35	152
Postage, office supplies, printing & stationery	130	41
Travel & subsistence	148	676
Accounting fees	300	300
	<u>763</u>	<u>1,488</u>

2022 2021

7. Short-term investments

	General	Restricted	Total	
Scottish Widows Bank	19,457	-	19,457	19,427
	<u>19,457</u>	<u>-</u>	<u>19,457</u>	<u>19,427</u>

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 2022 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: 3 Kildare Lane
Newlands 7700
Cape Town
South Africa
Date: 7 September 2023



The South African Institute of Chartered Accountants

