



ARTP

Association for
Respiratory Technology
& Physiology

ANNUAL REPORT

2023 - 2024

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Welcome to the ARTP annual report for 2023/24, which provides a detailed review of all of the work that has been undertaken by ARTP over the previous 12 months on behalf of our membership. This document provides a summary of the enormous amount of work each of the ARTP Committees have completed over the last 12 months and the ambitious plans that each of them have for the year ahead.

Financially, the past 12 months have focussed on creating a more stable footing to build upon following the impact of the Covid pandemic. This will allow ARTP to invest in broadening our educational portfolio, improving the user experience of our certification programs, and offering more benefits to our membership. The main investment that is planned for the coming year is the upgrading of our existing ARTP website. Our current website has served us well but is now beginning to show its age and a newer website will allow ARTP to deliver many of its core services such as membership and education more effectively and improve the mobile experience.

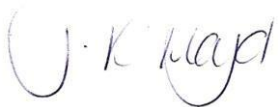
ARTP continue to maintain its strong working relationship with a range of professional organisations including the British Thoracic Society, the British Sleep Society, and the European Respiratory Society. More recently, we have established an important link with The Association of Chartered Physiotherapists in Respiratory Care, who are attending our Conference for the first time. ARTP continues to maintain our important connections at a national level via several NHS strategic groups and the National School of Healthcare Science.

The ARTP Spirometry certification program has continued to go from strength to strength and by working more closely with stakeholders such as the Primary Care Respiratory Society (PCRS) and the Association of Respiratory Nurse Specialists (ARNS) we have been able to provide further improvements to our existing processes.

As I approach my final few weeks as Honorary Chair of ARTP, I continued to be amazed at the work that our ARTP Committees undertake, all of which is done in addition to the day job! Their enthusiasm and passion for ARTP and the wider respiratory and sleep science profession will ensure that the organisation continues to go from strength to strength.

ARTP continue to be supported by the team at Executive Business Support and I am sure I speak on behalf of all our Committee members when I say, 'thank you - we could not do this job without your support'.

I hope to see many of you at our upcoming Annual Conference in Harrogate and I would like to personally thank you for your continued support of your professional body, ARTP.



Dr. Julie Lloyd
ARTP Honorary Chair

1.0 About the ARTP

The Association for Respiratory Technology & Physiology (ARTP), through standards of training and quality assurance, are the professional guardians of physiological measurement in respiratory and sleep medicine in the UK. With over 40 years of experience in the design and delivery of respiratory physiology services, ARTP provides the only national, professionally recognised, qualifications in Respiratory Function Testing and Spirometry in the UK.

ARTP also recommends standards for the design and delivery of respiratory physiology services through position papers from ARTP Working Groups on the structure, function and content of respiratory physiology and sleep facilities and services in the UK. An important function of the ARTP is the provision of opportunities for Continuing Professional Development. The ARTP organises an annual Conference, professional meetings and other educational courses on many respiratory and sleep physiology topics.

Nationally, ARTP informs and influences major organisations about the delivery of respiratory physiology services. Furthermore, ARTP links with equivalent national organisations around the world to deliver global standards in respiratory healthcare involving respiratory technology and physiology.

The Association works in conjunction with the British Thoracic Society to produce national guidelines and standards for good practice in the performance of respiratory measurement. It works closely with the Department of Health and the Academy for Healthcare Science in formulating policy and in the strategic direction of the profession.

ARTP Aims & Objectives

To advance for the public benefit the service and practice of Respiratory and Sleep Physiology and allied subjects by:

- Delivering and promoting education and training programmes to ensure competence to practice
- Establishing relevant standards of practice
- Promoting audit and research
- Promoting advances in diagnosis, treatment and care of patients with respiratory and sleep diseases
- Communicating with all stakeholders
- Representing the interests of practitioners at all levels

ARTP Council & Executive Board Members

ARTP Council	
President/Medical NED	P William Man
Chair	Dr Julie Lloyd
Vice Chair	Dr Joanna Shakespeare
Honorary Secretary	Sara McArthur
Honorary Treasurer	Mike Lang
HR NED	VACANT
Financial NED	Mark Hubbocks
Patient NED	VACANT

ARTP Executive Board 2023 - 2024	
ARTP Chair	Dr Julie Lloyd
ARTP Vice Chair	Dr Joanna Shakespeare
Honorary Secretary	Sara McArthur
Honorary Treasurer	Mike Lang
Communications	Natalie Goodwin
Workforce	Max Thomas
Standards	Matthew Rutter
Paediatrics	Emma Fettes
Education	Dr Vicky Moore
Events	Laura Jess
Sleep	Andrew Morley

Committee Changes

Ken Hutchinson stepped down as HR NED

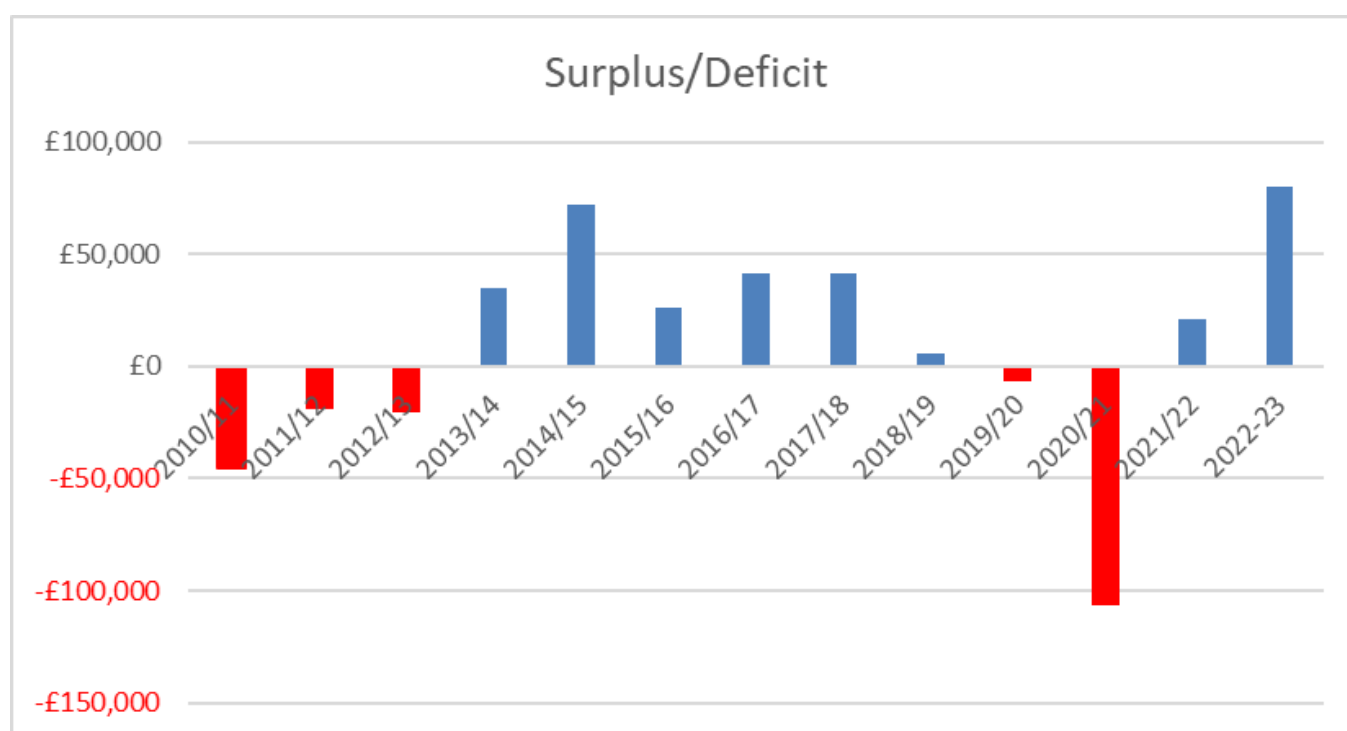
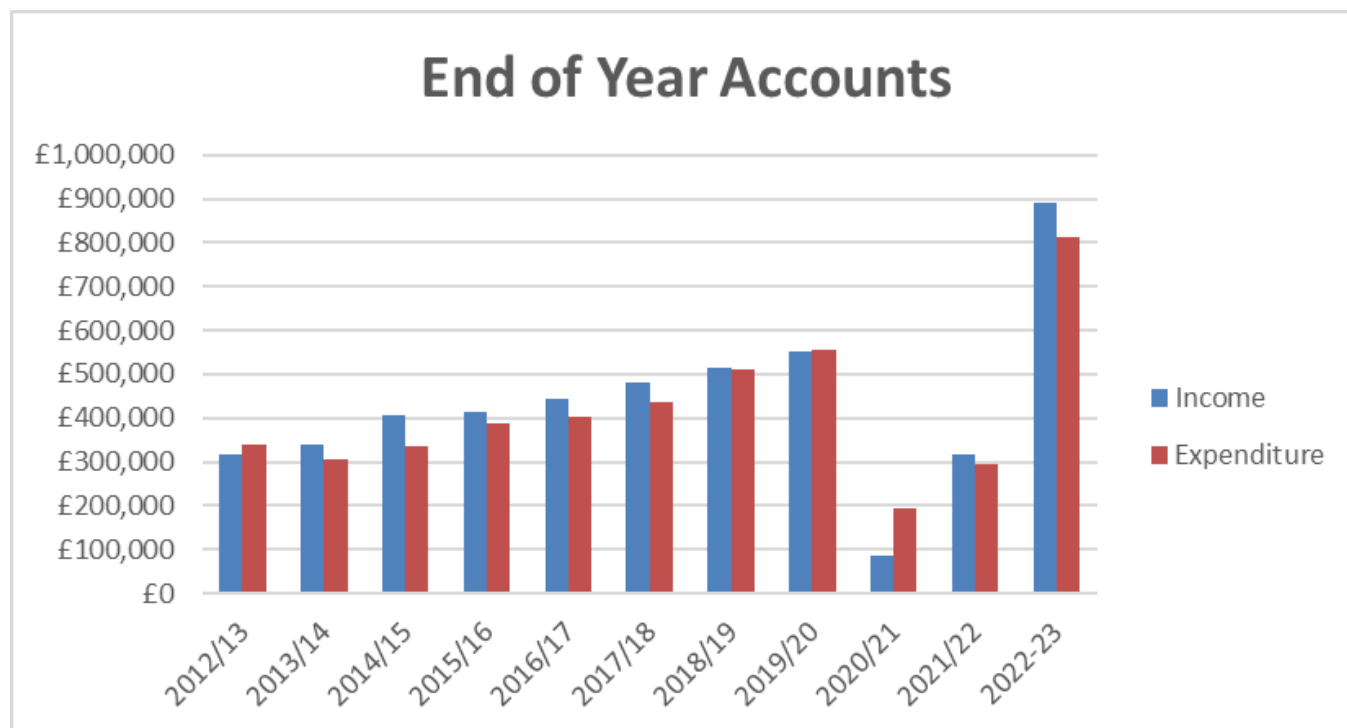
2.0 Finance

ARTP TREASURER: Michael Lang

Previous Finance Objectives 2022-23	Outcome
Maintain financial viability	Complete
Manage budget setting for ARTP Committees	Return to surplus achieved – reserves below policy requirement
Utilise independent financial advice to ensure that financial management & reporting is robust	Completed and ongoing
Review all expenditure/income streams in light of inflationary pressures	Completed and ongoing
Review reserves policy target level in light of experience with COVID-19 stress test	Completed – no change as successful in protecting ARTP from in year “worst case scenario”

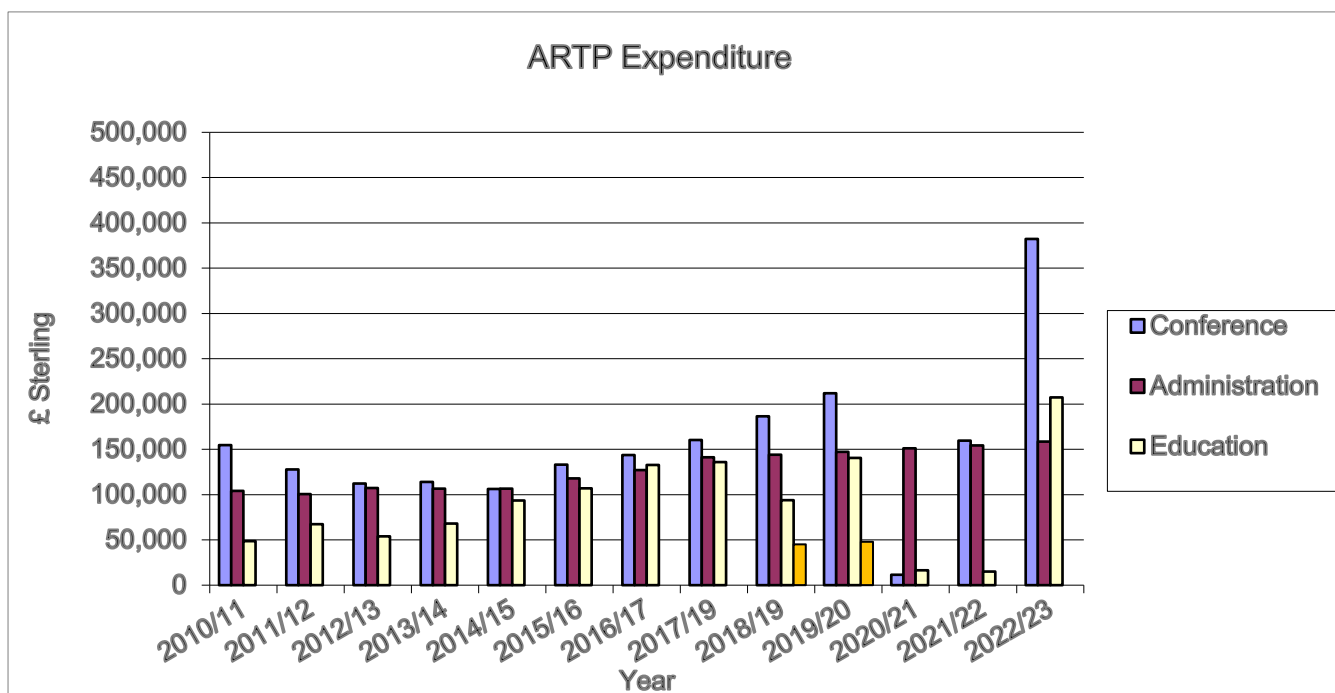
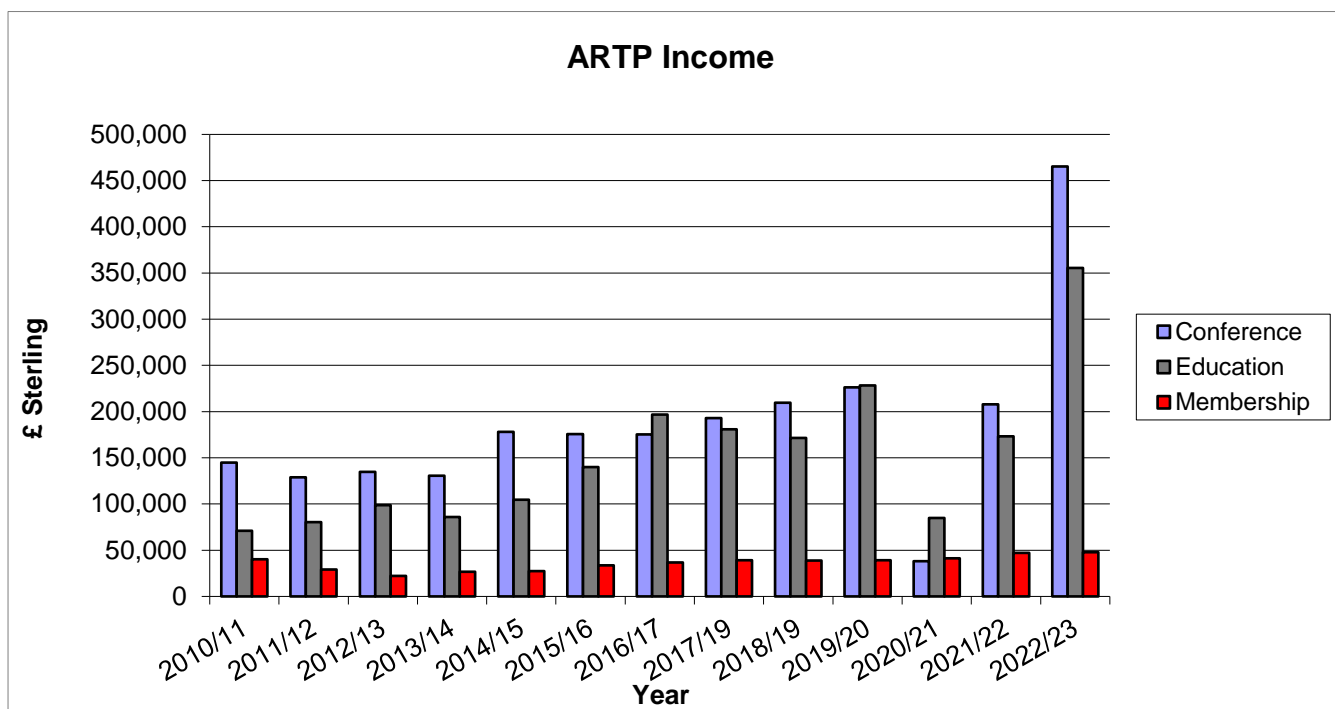
Statement of Financial Activity

				2023	2022
		Unrestricted Funds	Restricted Funds	Total Funds	Total Funds
		£	£	£	£
INCOME AND ENDOWMENTS FROM					
Donations and legacies		-	3,000	3,000	3,000
Charitable activities					
Conference and education		656,371		656,371	164,399
Other Trading Activity		231,570		231,570	149,851
Investment income		817	-	817	221
Total		888,758	3,000	891,758	317,471
EXPENDITURE FROM					
Charitable activities					
Conference and education		811,926		811,926	291,239
Other		-		-	4,837
Total		811,926	-	811,926	296,076
NET INCOME/(EXPENDITURE)		76,832	3,000	79,832	21,395
RECONCILIATION OF FUNDS					
Total funds brought forward		326,951	5,183	332,134	332,134
TOTAL FUNDS CARRIED FORWARD		403,783	8,183	411,966	353,529



2021/22 Surplus of £21,395

2022/23 Surplus of £79,832



Note: Income & Expenditure data is from in-year Balance Sheets which may differ from final Audited Annual Accounts as income/expenditure in-year may be accounted for in previous or latter year. e.g. Conference income/expenditure may be received/spent between two financial years but will be formally accounted for within the financial year it occurs. Balance sheet data is however useful for year-to-year trends comparison.

Finance Objectives 2024

- Maintain financial viability
- Manage budget setting for ARTP Committees
- Utilise independent financial advice to ensure that financial management & reporting is robust
- Continue to review all expenditure/income streams in light of inflationary pressures
- Maintain reserves as per policy and invest any surplus in education and training

I am pleased to report that ARTP saw an exceptionally strong financial performance in 2022-2023 with a surplus of **£79,832**. This, however, was due to a number of factors unique to that year and therefore gives a somewhat exaggerated picture of ARTP's core performance. These unique factors where:

- A change of month for the ARTP Conference resulting in the 2022 and 2023 Conferences being held in the same financial year, accounting for the significantly above trend Conference income & expenditure that stands out in the balance sheet data graphs above.
- A "bounce back" effect in both spirometry re-validations and ARTP Professional Exams from the shutdown in these activities during COVID and resultant backlog, which also stands out in the balance sheet Education Income graph above.

Accounting for these exceptions in financial performance the surplus would have been much closer to our 10 year average of £20k, and similar to the previous financial year. This very strong performance, along with the more normal surplus the previous year has very nearly recovered the large deficit/losses we suffered as a result of COVID-19. This has enabled us to recover our financial reserves 2-3 years earlier than previously expected. This is a very welcome development as it significantly reduces financial risks to ARTP, providing strong protection against any future exceptional challenges to financial performance.

On the downside, this also means that there will be a risk of deficit in financial year 2023-2024 as a result of no net Conference income, which is one of the more significant net income streams for ARTP. As we would expect the unusually strong (bounce back) spirometry re-validations and professional qualifications activity to return to pre-COVID trends, the education income is unlikely to offset this within-year net income loss.

There also remain significant inflationary pressures which will continue to put stress on core costs as well as the costs of running courses. The latter seeing, in particular, inflationary costs >10% in venue costs. There have been a number of measures taken to reduce costs in other elements of the course finances, but as the venue costs account for the majority of the costs for courses it has not been possible to significantly mitigate this without some increases in the delegate fees in order to maintain financial viability of the courses. It should be noted, however, that these course fee increases are the first such increases in at least 5 years and ARTP will continue to work hard to control costs to ensure best value for money for our members.

Finance Summary

We have seen a very welcome, if exceptional, strong financial performance in financial year 2022-2023 which has enabled us to recover from the very large deficit, seen during COVID-19, 2-3 years earlier than expected. There has also been a full recovery in the ARTP's educational output further strengthening our core financial performance. There are continuing significant inflationary pressures that do present financial risks to ARTP core finances that will have to be managed to maintain medium- and long-term financial viability.

Due to the exceptional circumstances detailed above and inflationary pressures we do not expect to see a similarly strong performance in 2023-2024 and may, temporarily, return to deficit as we return to more on-trend activity for spirometry and professional exams, along with no net Conference income for the year. This, however, is more likely than not to balance out over the 2 years to a more modest net surplus.

3.0 Communications

COMMITTEE

Chair	Natalie Goodwin
Vice Chair	VACANT
Inspire Journal Editor	Paul Burns
Inspire Journal Vice Editor	Dr Vicky MacBean
S-News Editor	Trish Matharu
S-News Vice Editor	Tara Badman
	Harry Kirby
	Aidan Laverty
	Kimberley Lewis
	Dr Julie Lloyd
	Dr Karl Sylvester
	Dr Joanna Shakespeare
Regional Groups Lead	VACANT



Key Activities

- Promote the service and practice of respiratory and sleep physiology
- Production and promotion of the two ARTP periodical publications
 - Inspire Journal
 - S-News Newsletter
- Produce monthly newsletters that are emailed to the membership that summarise current relevant news, activities and courses
- Produce and maintain the ARTP Website
- Produce, maintain and moderate the ARTP Forum
- Moderate the ARTP social media accounts
 - Twitter
 - Facebook
 - LinkedIn
- Assist Education, Spirometry and Events teams with internet-based developments and activities
- Facilitate and support ARTP regional groups
- Liaise between the ARTP and other professional bodies
- Oversee the development of and protect the ARTP brand

Committee Changes

This year Emma Ince stepped down as Chair of the communications committee, and Natalie Goodwin has moved into this role. Aidan Laverty stepped down as Inspire Editor, and Paul Burns has now taken on this role. Geraldine O'Connell-Ramsay stepped down as Regional Groups Coordinator. Martyn Bucknall and Brendon Cooper also stepped down from the editorial committee. In 2024 we will be looking to recruit a Vice Chair and would also like to recruit more volunteers to the editorial committee. We welcome any applications to join via

www.artp.org.uk/leadership-committees

Regional Groups

The existing groups have been running as per usual and the feedback received from these groups continues to be valuable to the Board, especially giving voice to the local issues which can be overshadowed by national issues. There has been a significant push to ensure all regions have a regional group, with adverts for vacant posts being included in the conference and shared to our social media pages.

We are continuing to offer support to regions that do not have an active regional group and invite anyone interested in leading a regional group to complete an online application. We encourage those in a region with an active regional group to engage with meetings.

Implementation of Digital Platform

The ARTP committees are successfully using Google Drive by Google and its tools to manage many of the ARTP's core documents and databases. By moving them into a central online storage environment, we aim to improve our resilience to data losses and enable sharing and editing these documents via secure platforms. The implementation of this has been effective, with all committees using the platform to easily share documents and updates.

General Data Protection Act

The committee continues to ensure that the ARTP is compliant with the General Data Protection Act and Data Protection Act 2018. We have created and implemented many of the policies and procedures and continue to review these.

ARTP Website

The website is regularly reviewed by all ARTP committees to continually expand and improve upon the user experience, and to ensure that information is frequently updated and kept current.

This year, the ARTP Website has gone out to tender, with the aim of providing a more comprehensive and flexible service. The ARTP website has grown substantially, and a new website is required to meet the growing requirements of this platform. Bidders have been asked to submit their proposal for provision of the service so that we can have confidence and clear assurance of the availability of resources to meet our specifications. Our aim is to launch the new website in 2024.

Website Activity - Period April 2023 – April 2024

Website traffic remains consistent, and we hope to see improvements in website traffic once the new website is launched in 2024.

Ranking	Most Viewed Pages	Page Views
1	ARTP Homepage	32,773
2	Spirometry Certification Page	15,639
3	Spirometry Guidance Page	14,877
4	Spirometry Overview Page	12,473
5	ARTP Training and Development	10,447

Ranking	Most Popular Source	Most Popular Country of Origin
1	Google	United Kingdom (77.06%)
2	Direct	United States (4.92%)
3	Bing	Germany (3.48%)
4	Care Quality Commission website	India (1.63%)
5	Facebook	Ireland (1.08%)

Member Emails

Mailshots have continued to be a popular source of information for our members, with a total of 78,076 email opens this year. The top 5 Most 'opened' Emails were

1. *SPIRO-AID Study for Spirometry Practitioners in Primary Care*
2. *ARTP Conference 2024*
3. *ARTP Lapsed Spirometry Certificates*
4. *ARTP Conference 2024 - Registration Open*
5. *Open for booking: ARTP Masterclass 12th-13th February 2024*

ARTP Social Media Activity

The growth in followers of our **Twitter** account continues to remain steady. Content is being shared frequently and total impressions and engagements through Twitter have increased significantly. The average monthly impressions (the number of times a user is shown one of our tweets in their timeline or search results) on Twitter are 39,727, up from 22,000 the year before.

This year, we have introduced a new social media channel, **LinkedIn**. Our goal for 2023 was to increase ARTP social media following and engagement, and during this period, our LinkedIn page has attracted 785 followers and 31,467 impressions.

Top most 'Liked' Social Media Posts

1. *ARTP is delighted to announce the next ARTP Cardio-Pulmonary Exercise Testing Course will be taking place in Newcastle, from Tuesday 26th - Thursday 28th March 2024*
2. *National Careers Week 4-9 March*
3. *ARTP Annual Conference 2024 - Registration is OPEN!*
4. *If you are currently working within a Respiratory Physiology/Lung Function Department and responsible for or participating in lung function testing, you are invited to complete this online survey*
5. *A special mention to the fantastic clinical physiologists in the NHS Leicester, Leicestershire & Rutland area who were at the recent careers event at the Morningside Arena, Leicester - promoting the ARTP and careers in respiratory and sleep science!*

The ARTP social media accounts are:



artpnews



@ARTP_News



ARTPNews

Publications

Inspire and S-News were redesigned in 2023, in order to bring the look of these publications in line with the ARTP brand. This year, **Paul Burns** took over as ARTP Inspire Editor.

The committee have introduced the use of a Google Drive that the Editorial Committee can access, making it easier for the Editorial Committee to view and edit articles, streamlining this process. Google Drive will also be used for S-News articles, again making the editorial process easier for those involved.

Communications Objectives 2024

Launch the new ARTP website

Continue to deliver our high-quality publications

To deliver the Social Media Plan 2023

Expanding the number of participating Regional Groups in local meetings and networks

4.0 Education

COMMITTEE

Education

Chair	Dr Vicky Moore
Vice-Chair	Helen Purcell
Secretary	VACANT
	Megan Beacham
	Marie Belcher
	Shirley Coelho
	Katie Endeacott
	Emma Fettes
	Dr Adrian Kendrick
	Karen Lewis-Jones
	Lauren Lear
	Dr Julie Lloyd
	Emma Munro
	Edward Parkes
	Joanna Purvis
	Matthew Rutter
	Dr Joanna Shakespeare
	Dr Karl Sylvester
	Samuel Wallbanks
	Mark Unstead
	Trefor Watts

Examinations

Chair	Marie Belcher
Vice-Chair	Mark Unstead
Secretary	Shirley Coelho
	David Clough
	Emma Fettes
	Dr Adrian Kendrick
	Dr Vicky Moore
	Helen Purcell
	Matthew Rutter
	Dr Karl Sylvester
	Trefor Watts



Committee changes

Tenures for Chair of Education, Vice Chair of Education, Chair of Examinations, Vice Chair of Examinations, Chair of Spirometry and Vice-Chair of Spirometry are changing this year. Those coming into the roles are in the table below and are dedicated to improving education. Accompanying the new leadership team are some new objectives which aim to streamline current processes and increase the training and education opportunities available to candidates through ARTP and streamline current processes.

Position	Previous	New Chair/Vice Chair – April 2024
Chair of Education	Dr Vicky Moore	Helen Purcell
Vice Chair of Education	Helen Purcell	Marie Belcher
Chair of Examinations	Marie Belcher	Mark Unstead
Chair of Spirometry	Joanna Purvis	Claire Francis

ARTP Courses 2023

We are very pleased to say that several courses ran in 2023:

- Cardio Pulmonary Exercise Testing (CPET)
- Lung Function Interpretation
- Practical Blood Gas
- Masterclass
- Respiratory Muscle
- Basic Sleep course

ARTP Courses 2024

We are planning all of our usual courses again in 2024, most of which will be face to face, with some having already taken place (Masterclass, Blood Gas, Occupational Asthma, ARTP/BTS short course and CPET).

More courses are planned throughout the year:

- Lung Function Interpretation
- Practical Blood Gas
- Advanced Sleep
- Spirometry Train the Trainer
- NIV



Courses



Certificates

We are now back to normal running and have plans to add new courses on new topics in the future such as challenge testing amongst others. We have also been assessing the courses we currently offer and plan to make updates based on candidate feedback.

A course flyer is available with links to the ARTP website detailing the list of courses. There are also waiting lists for each course. For more information on upcoming courses, please visit the ARTP website at www.artp.org.uk/artp-courses or scan the QR code above.

ARTP Professional Examinations & Certificates

Examinations are continuing to be held virtually and have undergone some process changes this year so that they will no longer just be held twice a year. A big thank you to all the examiners that continue to ensure these run successfully.

In 2023, we have had a total of 39 new candidates sit the examinations. Of the new candidates, 28 undertook the Practitioner level, 6 the Associate and 5 the Clinical level. We have also had 24 resit candidates. **Congratulations** to all who have passed their examinations this year.

We will be continuing to run examinations virtually but we are now undertaking them on a monthly basis enabling more flexibility. We hope this will save candidates waiting for long lengths of time for their examinations and will also allow resits to occur more quickly. We are continuing to develop the online MCQ which replaced the technical viva and the online calculations paper. The clinical viva is continuing to be performed virtually. We are also introducing a booking system to enable candidates to choose their OSCE and MCQ dates. This was launched with spirometry candidates this year and has been very successful. We hope this makes the professional exam process even easier.

One of our major goals was to convert the IRCP into an electronic portfolio using PebblePad. I am very pleased to say that this is now in the final stages and should hopefully be released for general use later in the year.

We plan to add further certificates over the next few years and have started to develop what we hope will fill the gap between professional examinations and the previous part 2 that ARTP used to provide.

National School of Healthcare Science

In 2023 there were 15 successful STP graduates in Respiratory and Sleep. Congratulations to all those who have passed and are now eligible to be registered as Clinical Scientists.

The intake for STP students has risen from 22 in 2022 to 25 in 2023. Thank you to all those departments training and developing the future Respiratory and Sleep Clinical Scientists.

Aside from STP, we had 2 successful HSST graduates in 2023 and a new intake of 4 HSST students. Congratulations to those who graduated and to those on the programme, we look forward to the Consultant Clinical Scientists of the future!

4.1 Spirometry Sub-Committee

COMMITTEE

Chair	Joanna Purvis
Vice-Chair	Claire Francis
Secretary	VACANT
	Jason Burge
	Paul Burns
	Emma Fettes
	Chris Harding
	Phil Lawrence
	Karen Lewis-Jones
	Dr Julie Lloyd
	Claire Fotheringham
	Julie Lennon
	Dr Vicky Moore
	Ella O'Neill
	Sindhu Sivagnanasithiyar
	Hannah Tighe
	Lindsay Zurba



Key Activities

ARTP continues to work with stakeholders to develop and improve all spirometry processes. At present, we have **1252 candidates currently** undertaking the ARTP spirometry certificate process, an increase from 706 in 2022.

ARTP have continued to successfully run OSCEs virtually which we plan to continue. These run on a rolling basis and allow candidates to sit exams without the requirement to travel. Thank you to all those who have been a part of this process.

The committee continue to review the spirometry certification process based on candidate post survey feedback. Some of the updates for 2023 have been:

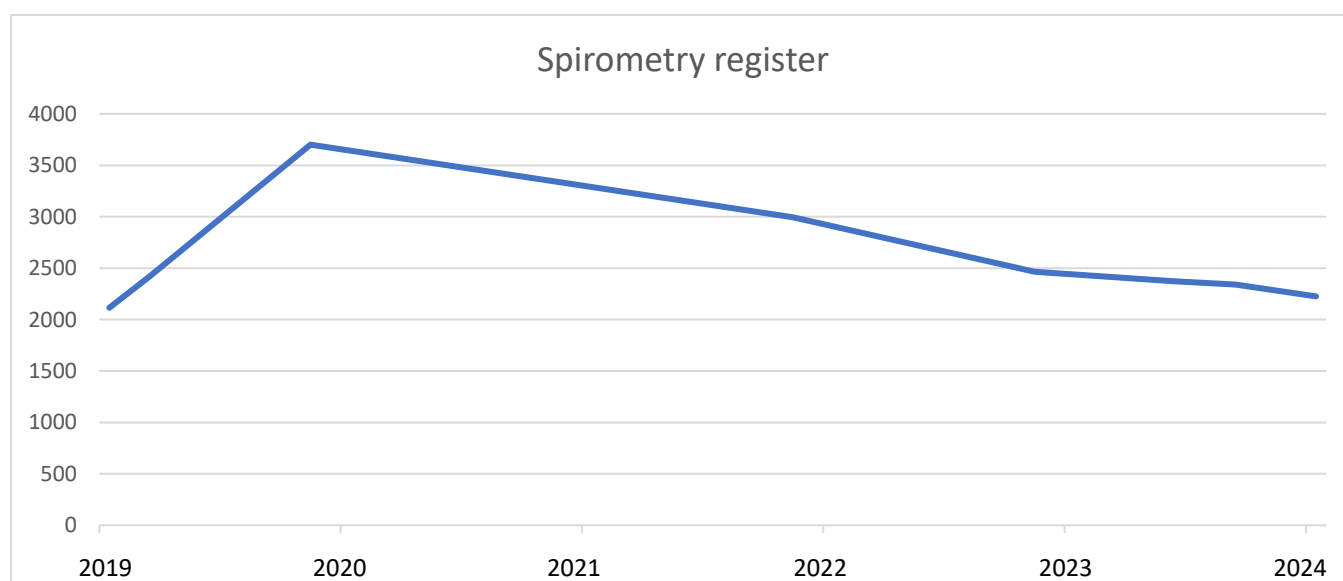
- Paediatric certification levels were introduced
- A Paediatric mock MCQ exam was created
- A new easy to use booking system was introduced to enable candidates to choose their OSCE and MCQ dates for the whole year and allows them more control of their own booking and the ability to cancel and rebook at ease
- More assessors have been recruited to cut down on waiting times for portfolio exam results. More are still needed and ARTP will continue to advertise for assessors
- The MCQ Exam Pass Rate was reviewed in November and changed from an 80% to a 70% pass rate to be in-line with other processes. This has been a welcome change by candidates and stake holders. All those who had previously scored between 70-79% were contacted and awarded a Pass
- A brand new Spirometry portal was launched this month, making the renewal process easier to manage for the certificate holder. Candidates can log into their portal and see their certificate renewal date and download a copy of their certificate should they need to
- Renewal reminders now go out **8 weeks before expiry** rather than on the day of expiry so candidates have more notice to organise their renewal

Spirometry Register

The Spirometry register continues to reside with the Academy for Healthcare Science and can be viewed at www.artp.org.uk/spirometry-register

As of 10th April 2024, there are **2225** individuals on the ARTP Spirometry Register which consists of the following certifications:

- **Adult**
 - 1684 x Full (Performing & Reporting)
 - 373 x Performing only
 - 124 x Adult Reporting
- **Paediatric**
 - 24 x Full
 - 1 x Reporting only
- **Adult & Paediatric**
 - 16 x Full
 - 1 x Performing only
 - 2 x Reporting only



Although the numbers on the register has decreased slightly over the years, this is likely to be a result of services still not being back to pre-COVID numbers.

Education & Spirometry Objectives 2024

- | |
|---|
| To build new courses and certificate programmes in more specialist areas of respiratory and sleep science |
| To establish the IRCP on PebblePad |
| To publish a handbook to support the professional examinations |
| To improve our online presence with short training videos and quizzes |
| To continue to assess spirometry processes based on stakeholder feedback |

5.0 Standards

COMMITTEE

Chair	Matthew Rutter
Vice Chair	VACANT
	Rasheda Choudhury
	Dr Brendan Cooper
	Andrew Pritchard
	Joanna Purvis
	Dr Laurie Smith
	Dr James Stockley
	Jessica Swan
	Dr Karl Sylvester
	Max Thomas



Key Activities

- Responding to requests for consultations on guidelines on behalf of ARTP
- Producing SOPs, guidelines and statements to enable standardisation of work practice

Committee Changes

Melanie Bryce, Ian Cliff and Tracey Fleming have stepped down from the standards committee. Ian was responsible for consultations, Tracey was responsible for IQIPS and sat on the Accreditation clinical advisory group (ACAG). Matthew Rutter has been deputising in Tracey's absence. These roles will need to be either divided between the committee or advertised to the membership.

Matthew Rutter will be vacating the standards chair role, this has been discussed among the committee and a succession plan for the chair and vice chair roles implemented.

Consultations

Ian Cliff for the standards committee has responded to one consultation Obesity: Surgical interventions. Ian also volunteered to support the summer BTS as a chair of the joint BTS/ARTP symposium on CPET and Air travel.

Website

The standards committee reviewed the layout and areas and have recently requested some changes. Some guidelines and documents need to be archived. The website itself is hard to navigate and options are being investigated for this to be improved. The workforce survey has been superseded by the NHS England survey for physiological measurement. As part of discussions with the ACAG, the IQIPS section needs updating and there

Documents

When reviewing the website, it was obvious that some documents were out of date. So far, we have updated four, which were due for review and they are in the process of going through editorial before being published:

- Respiratory/Sleep physiologist workforce progression SOP
- Professional Standards
- Lung Function Reporting
- General testing considerations

The committee is developing SOPs on quality assurance and business continuity plans, as well as a guide on document management.

CPET Competency

Development on the CPET competency had stalled while it was waiting to be integrated to PebblePad. Some other projects were taking priority, however the experience and knowledge gained should ensure the transition to PebblePad is easier.

PebblePad is now ready for the transition and the website has been set up and aligned to that of other processes such as the practitioner examinations. With this all set up, a trial of the new process will be performed to identify issues before we roll out to the membership.

ARTP Membership Projects

A proposal was accepted to develop ARTP membership projects, this would allow ARTP members to become involved with projects without being part of a committee. The host committee would manage and support the project. The projects will be listed on the ARTP website with details of what the project entails and how to apply to be involved.

Improving Quality in Physiological Services (IQIPS)

The Standards committee is in full support of this nationally recognised accreditation scheme. There are currently seven services that have IQIPS accreditation, representing an increase of one service since last year.

Congratulations to the following who have achieved or maintained their accreditation:

- University Hospitals Coventry and Warwickshire NHS Trust
- Imperial College Healthcare NHS Trust
- University Hospitals Birmingham NHS Foundation Trust
- Manchester University NHS Foundation Trust
- Great Ormond Street Hospital for Children NHS Foundation Trust
- Cambridge University Hospital NHS Foundation Trust
- Kings College Hospital NHS Foundation Trust

The Standards section of the website contains documents that are available to the membership for adaption and implementation into their service which can be linked to the specific IQIPS domains. Additional useful information can be found at Improving Quality in Physiological Services (IQIPS) www.ukas.com/accreditation/standards/iqips

With Tracey Fleming stepping down from her IQIPS position on the standards committee and the respiratory representative on the ACAG, the committee has a vacancy for an individual with IQIPS experience to update the committee on developments within the IQIPS probes and represent respiratory and sleep perspectives within the ACAG.

Standards Objectives 2024
ARTP CPET competency framework
To continue to support the implementation of IQIPS
Provision of additional CPET Special Interest Group (SIG) meetings
Continue to develop standard operating protocols for use by the membership
Provide feedback for any applicable consultation documents on behalf of the ARTP
Continue to have a significant profile within the ARTP website
Support on-going research and innovation
Continue to provide a link between members and manufacturers via the Manufacturers Liaison Committee (MLC)
Revise and update the manufacturers/industry survey

5.1 Manufactures Liaison - Sub-Committee

COMMITTEE

Chair	Prof Brendan Cooper
Vice Chair	Daniel Hutchings
	Karamo Cham
	Dr Julie Lloyd
	Danny Pender
	Joanna Purvis
	Matthew Rutter
	Jessica Swan
	Dr Karl Sylvester



Committee Changes

Brendan Cooper has acted as interim MLC Chair, with Dan Hutchings as Deputy MLC Chair. The committee membership is on the ARTP website but is always looking for new members to join this vibrant and interesting connection with industry.

Key Activities

The committee has met virtually several times in the year. We have continued to act as a collective voice for the membership and have been successful in sorting several issues with manufacturers. The big pieces of work, which will be discussed, ratified and launched at the ARTP Conference 2024 will be:

- The Sustainability Charter
- MLC Code of Conduct
- The Buyer's Guide and Artificial Intelligence in Respiratory Physiology

ARTP Watchdog continues to support members and work with manufacturers/suppliers in a constructive and fair way.

5.1 Research & Innovation - Sub-Committee

COMMITTEE

Chair	Dr James Stockley
Vice Chair	Dr Samantha Irving
	George Bingham
	Liesl Carr
	Dr Christopher Earing
	Andrew Eaton
	Dr Adrian Kendrick
	Liam O'Reilly
	Danny Pender
	Matthew Rutter
	Dr Laurie Smith
	Dr Karl Sylvester
	Max Thomas



Committee Changes

Our committee currently comprises of 12 members, with one stepping down and one new member joining. Our general duties remain the same, with a major component dedicated to the annual conference.

Key Activities

Our committee facilitates all research aspects of the conference, including abstract reviews, planning and chairing the oral and poster research sessions, the latter of which has now increased from two to three sessions.

Our research talk has also been promoted from an early morning session to afternoon plenary session, with this years' talk on patient and public involvement in research, which includes a presentation by a patient.

We will no longer have a stand in the exhibition hall due to a lack of engagement from delegates at the previous two conferences. Once again, we are running a competition at the conference, which is a research-themed crossword this year with the usual voucher prize (the crossword was sent to all delegates by email two weeks before the conference to try and increase entry numbers).

We continue to contribute a quarterly *Fresh Air* article for ARTP Inspire, communicating novel trends in research, innovation and clinical practice from both respiratory and sleep sciences.

We are now developing the online resource to promote all published research by ARTP members by providing an archive of web links to their work. Unfortunately, the podcasts previously proposed have been abandoned for the time being. However, we now have more than enough interest in an ARTP Research Course which, initially, we plan to run as a one-day online course towards the end of 2024.

Our committee are available to support all ARTP members in any aspect of research (including the ethical approval process, grant applications, and research methodology) or, indeed, career progression – we feel that we should advertise this more within the ARTP community as many members may not be aware that we are available to help in this capacity.

6.0 Events

COMMITTEE

Chair	Laura Jess
Vice Chair	Colleen Carden
	Natalie Blyth
	Prof Brendan Cooper
	Francois Clavaud
	Michael Lang
	Karen Lewis-Jones
	Dr Julie Lloyd
	Kelly Pauley
	Joanna Purvis
	Matthew Rutter
	Dr Joanna Shakespeare
	Dr James Stockley
	Dr Karl Sylvester



ARTP Annual Conference 2023

The 47th ARTP annual conference took place on the 16th – 17th March 2023 at Hilton Brighton Metropole.

A total number of 401 people attended the conference, including 261 delegate registrations and 101 exhibitor personnel. A total number of 29 companies exhibited (including 2 charities and 1 ARTP Research Committee stand). Exhibitor support from industry and charities was well received by delegates and positive feedback has continued to increase year on year regarding the quality of the industry exhibition.

The conference programme was aimed at providing education, continued professional development and an opportunity to present scientific research to delegates, with sessions delivered by some of the leading and influential experts in their respective fields. The programme consisted of 27 speakers, 4 oral presentations, 43 poster presentations and 4 sponsored workshops.

This year's keynote sessions included the PK Memorial Lecture, *"Pulmonary Rehabilitation"*, delivered by ARTP Honorary President Prof William Man, and the Sleep Keynote, *"From Research to Clinical Guidelines and Application into Practice: how can we make a difference?"*, delivered by Prof Mary Morrell. In addition, this year's programme highlights included the widely popular Extreme Physiology session, *"The Respiratory Responses to Extreme Environments and Associated Hazards"*, delivered by Prof Mike Tipton, *"A Phenomenology of Breathing and Breathlessness"*, delivered by Prof Havi Carel and *"A Patient Perspective – Lymphangioleiomyomatosis (LAM) and Post Lung Transplantation"*, delivered by Gillian Hollis. Feedback on the quality of the programme was positive, and there have been some excellent feedback suggestions from delegates for topics they wish to see covered in the programme at future conferences.

This year saw the establishment and presentation of a new ARTP Award at the ARTP annual conference – The ARTP Peter Moxon Rising Star Award, in memory of our colleague Peter Moxon who we sadly lost at the end of 2022. This award celebrates and recognises achievements of those at the beginning of their career in respiratory and sleep science, shining a spotlight on their success and championing the organisations that do the most to develop new talent in respiratory and sleep science. The award was presented at this year's gala dinner and all nominees were commended for their nominations and success.

The ARTP Awards that were presented at the ARTP annual conference 2023 were:

Award	Winner
ARTP Award for Services to Respiratory Medicine 2023	No Award Made
ARTP Award for Services to Respiratory and Sleep Science 2023	Aiden Laverty
ARTP Peter Moxon Rising Star Award 2023	Kellie Moffat

ARTP National Strategy Day 2023

The National Strategy Day 2023 took place on 17th November at the Leonardo Royal Hotel, Birmingham. The event was free to attend for all heads of departments and their nominated deputies. A total number of 131 people attended the National Strategy Day, including 83 registered delegates and 29 exhibitor personnel. The event was supported and sponsored by 17 industry manufacturers who provided an industry exhibition.

The day allowed delegates to keep up-to-date with professional issues and developments in respiratory and sleep science, and provided an opportunity to discuss important matters and share best practice with members of the ARTP. The programme included updates on key areas affecting respiratory and sleep science services with input from all four nations in the UK, including *"Workforce"*, *"Tackling Health Inequalities"*, *"Sustainability and Healthcare Science"* and an *"IQIPS Update"*.

Overall this year's National Strategy Day was a success, with positive feedback received. As per ARTP Events Committee objectives for 2023, the implementation of guidance to mitigate financial loss to ARTP associated with non-attendance was successfully achieved, and mitigation will therefore continue for subsequent events.

Events Objectives 2024
Deliver a successful ARTP annual conference 2024
Source appropriate venue for National Strategy Day 2024
Deliver a successful National Strategy Day 2024
Source and book an appropriate venue for ARTP Annual Conference 2025

7.0 Sleep

COMMITTEE

Chair	Andrew Morley
Vice Chair	Alan Moore
S-News Editor	Trish Matharu
S-News Vice	Tara Badman
	Megan Beacham
	Francois Clavaud
	Shirley Coelho
	Prof Brendan Cooper
	Dr Victoria Cooper
	Matthew Davies
	Dr Aditi Desai
	Dr Adrian Kendrick
	Edward Parkes
	Emma-Jane Simpson



Committee Changes

We were pleased to have welcomed one new member Emma-Jane Simpson to the Sleep Committee during 2023-2024. The committee was also sorry to lose Richard Glover & Emily Cannadine due to work commitments.

Education Courses

The sleep committee have spent much of 2023/2024 reviewing and revamping the basic and advanced sleep courses as we plan to move away from the electronic course and returning to the face-to-face format. The first run of the new advanced course is expected to launch late September 2024. The committee aim to then offer new Basic sleep course late 2024/early 2025.

NIV training course has also been updated this year with plans now at an advanced stage, current aim is to run the updated course October 2024.

Certificates

Sleep certificate enrolment has continued as we see more interest in opportunities to complete professional development. Oximetry & CPAP certificates have again been running, enrolment has been down on previous years which may link to financial pressures seen nationally on study & education budgets.

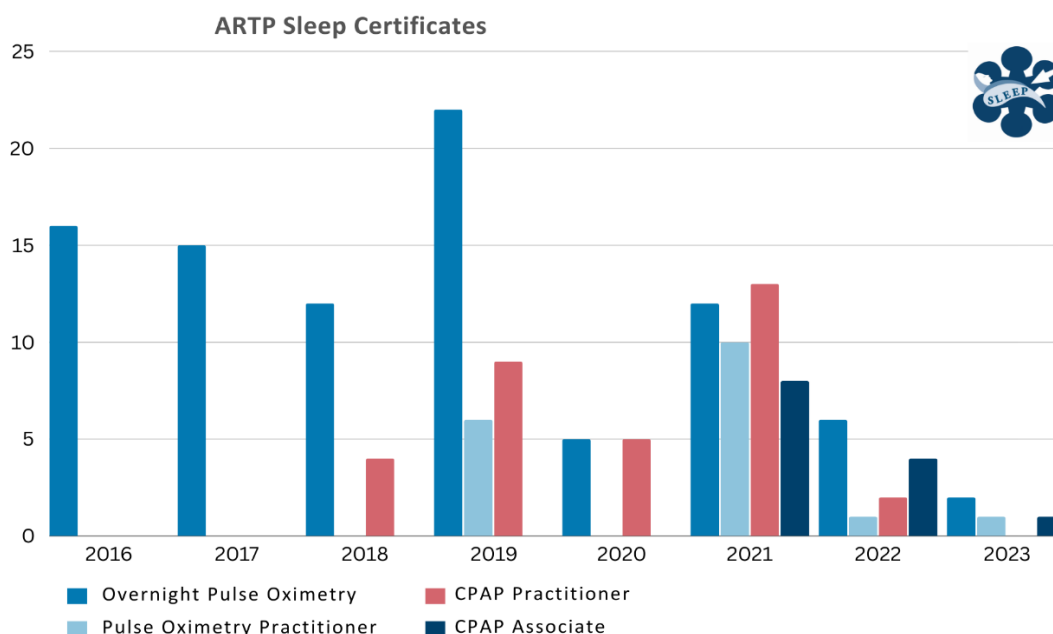


Figure 1: Enrolment numbers for ARTP Sleep certificates

Networks

ARTP Sleep Committee has continued to enjoy the benefit of working closely with the British Sleep Society building on our relationship as we work to raise awareness & understanding of the field of Sleep medicine. Developing networks with societies, sharing expertise and knowledge is vital as we strive to promote our vision of improving access and education in sleep physiology for our members.

ERS

The Sleep Committee previously worked with European Respiratory Society (ERS) to develop 8 sleep physiology modules. We can confirm that these modules are now freely available as an educational resource for all members via the ARTP website.

S-News Newsletter

Our thanks go to Trish Matharu & Tara Badman who have continued their great work as Editor/Deputy editor of the sleep e-magazine S-News. With its aim of keeping members up to date with current research, innovation and education within the Sleep specialism, S-News continues to balance the different interests of the world of sleep with contributions from across the sleep spectrum.

Sleep Standards

We are pleased to announce that Frankie Clavaud, Specialist Clinical Scientist (Respiratory and Sleep) Salford, has joined the Sleep Standards group and he will be working closely with Alan Moore and Professor Thomas Netzel.

CPAP Device Certification Scheme

Work has commenced on the testing of Auto-CPAP devices as was indicated in the annual report last year. Algorithms are now available for a number of Auto-CPAP devices. Our thanks go to Frankie Clavaud for sourcing this information. The group tested one device which passed every sequence of our simulator waveforms in the initial set used to test for device reaction to respiratory events, these being:

- Obstructive Hypopnoea and Obstructive Apnoea
- Central Hypopnoea and Central Apnoea
- Periodic/Cheyne-Stokes Breathing (only where the manufacturer claims to identify these events)

The standards group subsequently modified the central apnoea and central hypopnoea test waveform sequences as other devices tested reacted incorrectly to these sequences. The result of the modification was that the device which previously passed subsequently failed the test for the central apnoea waveform. Having further investigated this the group now feel they know why that was and will programme a revised sequence to test this device for central apnoea. If the group obtain an affirmative outcome, they will adopt this entire sequence of waveform tests as the primary set of waveforms for future testing moving forward.

Sleep standards are aware that some devices may use a different technique to recognise respiratory events, they are currently in the throes of working through that scenario and developing adjustments to the test rig in order to deliver the modified waveforms. The modified waveforms will become Waveset 2 when they have been confirmed using a suitable test Auto-CPAP device.

On completion of this work manufacturers/distributors will be required to specify which set of waveforms they wish to submit devices to test against. If a manufacturer requests that their device be assessed by a different set of waveforms to this, they will be invited to discuss with our specialist group to work through their request.

Sleep Apnoea Diagnostics (Technical and Performance)

Version 1.0 of these standards has now been implemented and work is progressing on the development of test rig(s) and methodology. We have decided to start with pulse oximetry as this is the bedrock of sleep diagnostics. It is also timely as there is a new international standard in the process of being rolled out - ISO 80601-2-61:2023; Medical electrical equipment - Part 2 61: Particular requirements for basic safety and essential performance of pulse oximeter equipment.

Mandibular Advancement Devices (MAD)

Revision of Version 5.0 of the MAD standards, led by Dr Aditi Desai, is almost complete and we expect to be able to present this to our industry partners in the not too distant future.

Sleep Objectives 2024
Provide Basic & Advanced Sleep courses
Provide NIV course
Review and amend diagnostic certificates
Continue to develop relationship with BSS
Continue to support all Sleep certificates
Support the ARTP Sleep Apnoea Consortium work on standards and accreditation of diagnostic and therapeutic equipment

7.1 Sleep Apnoea Consortium (SAC) - Sub-Committee

COMMITTEE

Chair & ARTP Rep	Prof Brendan Cooper
Vice Chair & BSS Rep	Dr Tim Quinnell
NHSE Advisor	Dr Martin Allen
BSDSM Rep	Dr Aditi Desai
ARTP Rep	Francois Clavaud
BSS Rep	Dr Simon Durrant
BSS Rep	Dr Allie Hare
ARTP Rep	Dr Adrian Kendrick
ARTP Chair	Dr Julie Lloyd
ARTP Rep	Alan Moore
ARTP Sleep Chair	Andrew Morley
CPAP Advisor	Prof Thomas Netzel
SATA Rep	Chris Rogers
BPRS Rep	Colin Wallis
ARNS Rep	Iain Wheatley

**COMPANY REPRESENTATIVES**

Drive DeVilbiss Healthcare Ltd
 Fisher & Paykel Healthcare UK Ltd
 Inspire Medical Systems
 Löwenstein Medical UK
 Philips Home Health Care Solutions
 ResMed UK Ltd
 S-Med Ltd
 Sefam Medical
 Somnomed
 Stowood Scientific Instruments Ltd
 Zoll Itamar

8.0 Paediatrics

COMMITTEE

Chair	Emma Fettes
Vice Chair	Philip Lawrence
	Stephanie Brotherston
	Elise Buchan
	Paul Burns
	Matthew Davies
	Dr Jane Kirkby
	Laura Jess
	Joe Madge
	Dr Laurie Smith



Key Activities

- We welcomed two new committee members this year
- The paediatric committee provides member representation on the ARTP committees where needed and paediatric support to other committees as requested. Currently we have Emma Fettes sitting on Education committee, Philip Lawrence on Spirometry committee, Matthew Davies on Sleep committee, Laura Jess chairing Events committee, Laurie Smith on Standards committee, Joe Madge on Workforce and Paul Burns as Inspire Editor for Communications.
- Paediatric session planning and approaching speakers for ARTP Annual Conference 2024
- Providing response to queries sent via ARTP administration, forum or emails for paediatric physiology issues
- Education links to develop and deliver paediatric respiratory and sleep physiology education
- Sub-committee of Paediatric Spirometry working closely with ARTP Spirometry Chair
- Promoting paediatric respiratory physiology careers throughout Healthcare Science Week within committee member's Trusts and regionally (London Healthcare Science Education and Training network)
- Committee members represented ARTP at the King's John Price Paediatric Respiratory conference this month

Education & Training

- Paediatric input ARTP Reporting course, and Masterclass
- Paediatric session at Respiratory Care Show
- Basic sleep course chaired April 2023 and advanced sleep course planning for 2024
- Certificates nocturnal oximetry, polygraphy
- Paul Burns remains involved with the CPET course and certification process
- Working closely with ARTP Spirometry Chair and Administration team we have all the spirometry certificates available as both Paediatric and 'Joint' (Adult & Paediatric combined) versions of the Full, Reporting, Performing and a Paediatric top-up levels. The number of paediatric certified operators on the National Spirometry Register continues to grow
- Mock Spirometry MCQs for paediatric candidates is now available and further questions added
- Phil Lawrence is preparing to help deliver the Spirometry Train the Trainer day in May 2024

Paediatric Objectives 2024

To continue to support paediatric elements of ARTP CPET Competency Certificate
Move the practitioner (level 3) 'with paediatrics' option to PebblePad for online IRCP portfolio submission
To continue to support the Paediatric Spirometry Certification process for quality assured paediatric spirometry
To continue to support paediatric input on ARTP courses and events
Provide paediatric input and materials for the ARTP advanced practitioner modules

9.0 Workforce

COMMITTEE

Chair	Max Thomas
Vice Chair	Andy Stubbington
	Asia Awal
	Elizabeth Dobson
	Rosie Fillingham
	Lauren Lear
	Joe Madge
	Sara McArthur
	Kelly Pauley
	Emma-Jane Simpson



Key Activities

The Workforce Committee aims to improve access to and raise the profile of respiratory and sleep physiology. The committee has ensured an ARTP presence at conferences and professional meetings around the UK and Europe. We manned stands at the BTS, ERS, and Respiratory Professional Care meetings to raise the banner of the ARTP; and we have had physiologists with a specialist interest in paediatrics join the committee and represent us at the KJP Paediatric Respiratory Conference. Additionally, we have represented the ARTP at numerous career fairs around the UK to raise the profile of Healthcare Scientists in the future workforce.

The Workforce Committee's presence in national projects continues to include representation within the Taskforce for Lung Health's workforce working group. This is a project with focus on all stakeholders in the respiratory workforce from service delivery to hospital care, to patients and patient advocate groups. We also have representation within the Scottish Strategic Network for Diagnostics where members attended cross-party parliamentary group meetings on lung health – the focus being keeping respiratory and sleep physiology workforce matters on their agendas.

Members of the Workforce Committee contributed to the creations of social media content for the ARTP and raising awareness of Respiratory and Sleep Physiology during national careers week and Healthcare Science week. Members attended St Andrews house during Healthcare Science week.

Committee Changes

Tracey Fleming leaves us after many years of service. She supported several committees and played her part as Secretary. We want to commend Tracey for her work for the committee as part of the ARTP membership approval process. Thanks for everything you've done for the organisation, Tracey!

We have had several members of the Workforce Committee step into the role of approving new members and they have been supported by Kelly Pauley so thanks to you also, Kelly!

Membership

The ARTP boasts its highest membership numbers to date and continues to thrive. Unfortunately, we lack detailed data to distinguish between new members and renewals, a limitation persisting since 2021.

The chart below (Figure 1) illustrates the ongoing expansion of ARTP membership following a decline in 2022.

Figure 2 provides a breakdown of membership types for both 2023 and 2024. It is apparent that the growth in membership can be attributed to a 230% growth in spirometry candidates, a 150% rise in corporate membership, and a 20% uptick in both STP student and Allied Healthcare Professional memberships. We've seen a drop of 16% in PTP student membership and an increase in unregistered members by 20%.

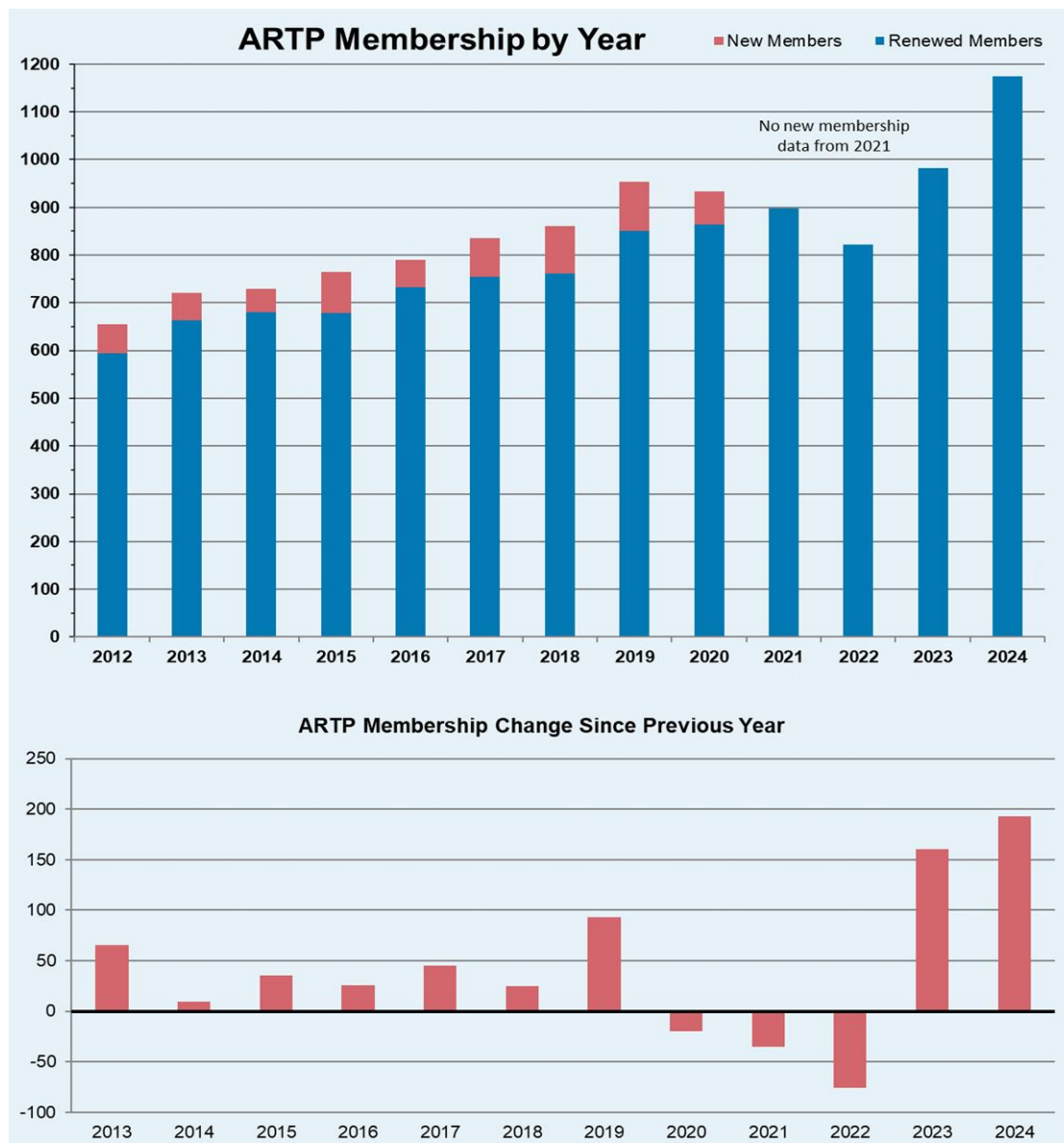


Figure 1: ARTP total membership by year (top) with the membership change since previous year (bottom). Note that there is no data for new vs renewed members available since 2021.

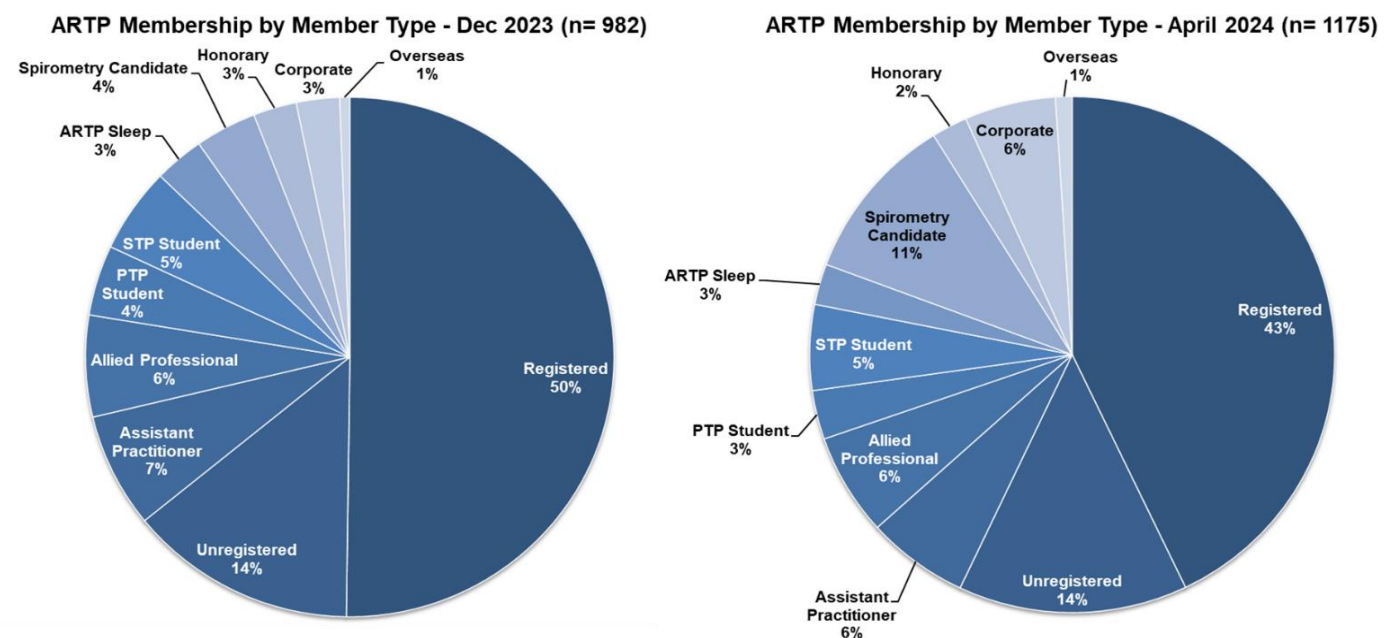


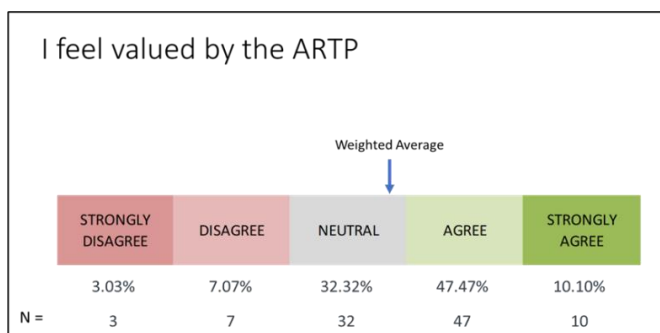
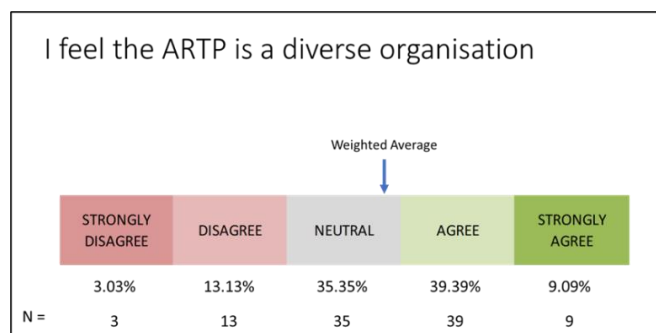
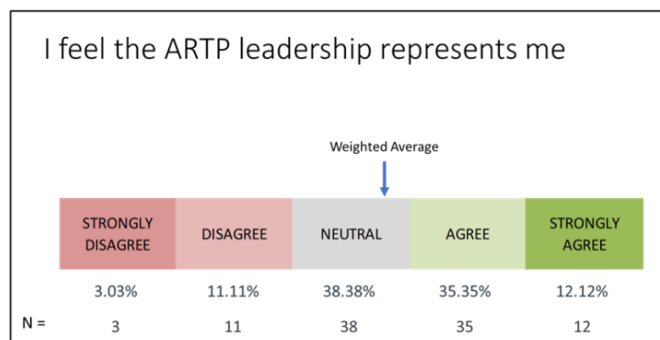
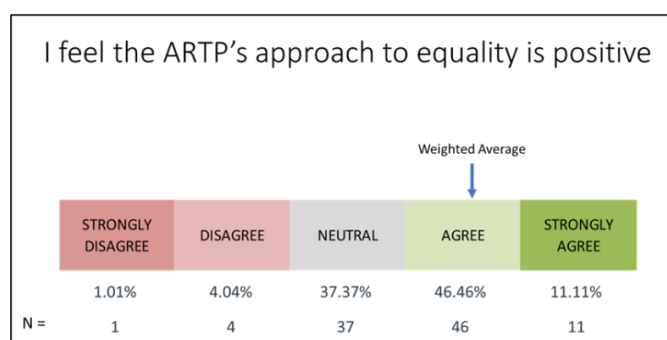
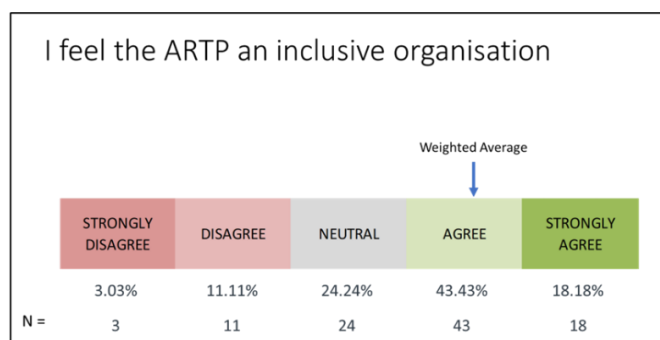
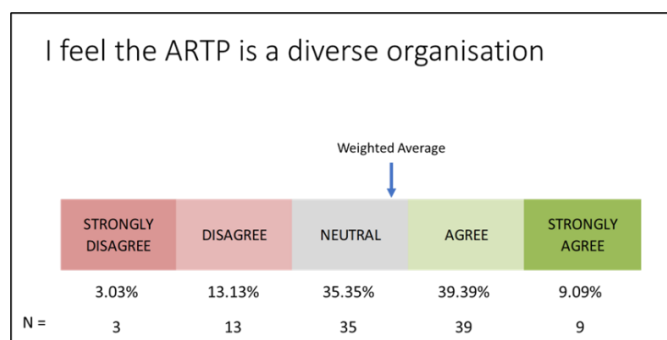
Figure 2: ARTP membership separated by membership type (2023 vs 2024)

Equality, Diversity and Inclusion

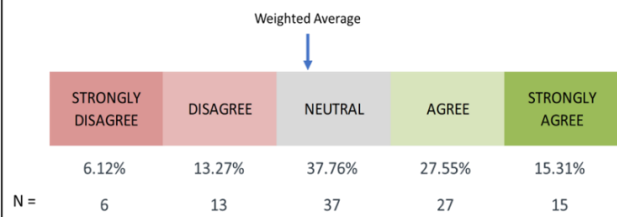
Over the past year, the ARTP Workforce Committee has made a concerted effort to advance equality, diversity, and inclusion (EDI) within the organisation. Following recommendations from the national strategy day, the ARTP Chair and our team collaborated to develop an EDI survey aimed at gauging the organisation's progress in this regard. The objective is to gather insights into how ARTP can foster an inclusive culture and effect meaningful changes.

The results of the EDI survey were presented to the ARTP Board. This marks the first attempt to profile the membership in terms of demographics and protected characteristics. This endeavour must persist to ensure ongoing monitoring of the organisation's makeup. Overall, the membership's response was neutral to positive when asked about the diversity of the ARTP, but more affirmative regarding its inclusivity and its proactive stance on equality. These findings were well received and provided valuable insights for monitoring and enhancing the organisation.

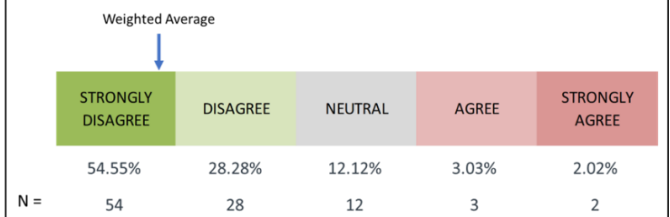
The inclusion of free text boxes in the survey allowed members to provide additional feedback, and a recurring theme emerged from the comments: penetrating the ARTP leadership proves challenging for individuals outside of large, established Hospital Trusts or those lacking connections in positions of influence. Furthermore, consistent feedback highlighted concerns about the ARTP forum being perceived as a 'boys' club', where individuals feel discouraged from raising topics due to fear of being dismissed or bullied, thus detracting from the organisation's inclusivity.



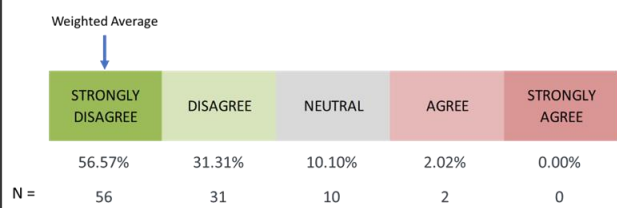
I feel I am able to aspire to a position of leadership within the ARTP



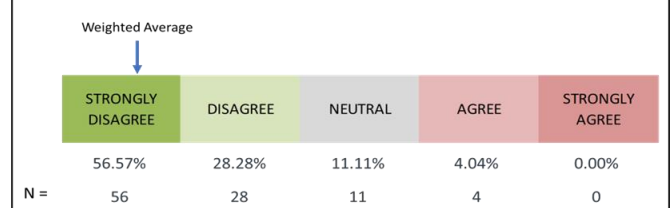
I feel my ethnic background is a barrier to my progression within the ARTP



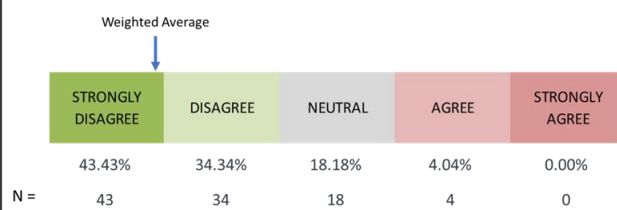
I feel my sexuality is a barrier to my progression within the ARTP



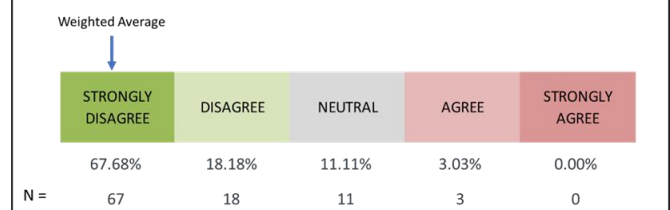
I feel my physical ability/health or mental ability/health is a barrier to my progression within the ARTP



I feel my age is a barrier to my progression within the ARTP



I feel I have been bullied, undermined or harassed within the ARTP



Workforce Objectives 2024

To play a role in national promotion of healthcare science as a career with a focus on respiratory and sleep physiology

Workforce members to represent the ARTP at regional, national and international meetings – engaging with partner organisations and promoting ARTP services to interested parties

To engage with national projects, pressure groups, and research aimed at characterising and improving the clinical science workforce

To maximise understanding and communication of workforce issues to the membership and external stakeholders

Take responsibility for ARTP website sections related to the respiratory/sleep physiology workforce and working in the UK

Increase registration numbers with a specific focus on trainees and students

Communicate with trainee networks (PTP/STP students) and ensure respiratory and sleep trainees are aware of the ARTP

Liaise with the National School of Healthcare Science to advertise to students and support uptake for the newly available graduate diploma



ARTP

Association for
Respiratory Technology
& Physiology

Thank you for reading this ARTP Annual Report 2023 - 2024

ARTP

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