



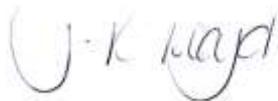
ARTP Annual Report 2019/20

Welcome to the ARTP annual report for 2019/20. This is my first year as Honorary ARTP Chair and I am delighted to say that I have taken up this role with the organisation in an excellent position both professionally and financially.

2019 was an exciting year for ARTP as we continued our work in strengthening our links with other organisations, contributing to national policy at the highest levels and delivering a broad portfolio of high quality educational courses. All of this work has been completed whilst ensuring that ARTP maintains financial stability; this financial position will allow us to continue to build on the new membership benefits that were introduced in 2019 and introduce additional value for members in 2020.

ARTP continued its work as a member organisation of the Taskforce for Lung Health in 2019, with the focus being on early and accurate diagnosis of respiratory disease. This work will continue over the coming years, with ARTP an active member of the group ensuring that the interests of our patients remain at the heart of what we do. In conjunction with the National School for Healthcare Science, ARTP along with other professional bodies has begun the important task of reviewing the Scientist Training Program curriculum. This will ensure that the clinical scientists exiting from this program have the requisite skills to take the profession forwards into the future.

This report also provides information about the excellent work that is being undertaken by the various sub-committees and their members. It is important to remember that the contribution from these individuals is on a voluntary basis, and completed in their own time around busy clinical workloads, ongoing professional development and the normal busy home lives that each of us has. I would personally like to extend my thanks and appreciation to each and every one of these healthcare scientists whose contributions continue to make ARTP the thriving organisation that it is. It is a pleasure and an honour to act as the Chair of such an organisation and work with such a dedicated, hardworking and professional group of people.



Julie Lloyd
Honorary Chair, ARTP

Contents

1. About the ARTP	P4
1.1. Aims and Objectives	P4
1.2. ARTP Council	P5
1.3. ARTP Executive Board	P5
1.4. ARTP/BTS Joint Strategy Board	P6
2. Finance	P7
2.1. Statement of Financial Activity	P7
3. Communications	P10
3.1. Website Development	P11
3.2. General Data Protection Act	P11
3.3. Regional Groups	P11
3.4. Implementation of Digital Platform	P11
3.5. Website Activity	P12
3.6. Social Media Activity	P13
4. Education	P15
4.1. Courses 2019	P15
4.2. Courses 2020	P15
4.3. ARTP Professional Examinations	P15
4.4. Spirometry	P16
4.5. National School of Healthcare Science	P17
4.6. Tenures	P18
5. Standards	P19
5.1. Lung Function Testing Recommendations Update	P19
5.2. Research Update	P20
5.3. Manufacturers Liaison	P20
5.4. Improving Quality in Physiological Services (IQIPS)	P20
5.5. Other	P21
6. Events	P22
6.1. Conference 2019 - Glasgow	P22
6.2. NSD 2019 – Hilton Metropole, Birmingham	P23
7. Sleep	P24
7.1. Courses	P25
7.2. Certificates	P25
7.3. ERS	P26
7.4. CPAP Certification Scheme	P26
7.5. NHS Supplies Framework for Diagnostic, CPAP, NIV and High Flow O Devices	P27
8. Workforce	P28
9. Paediatrics	P30
9.1 Education and Spirometry	P30
9.2 Education on other ARTP courses	P30
9.3 Other notable activities/achievements	P30
9.4 The Future	P31

1 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, 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 Academy for Healthcare Science in formulating policy and in the strategic direction of the profession.

The ARTP hosts the multi-disciplinary Sleep Apnoea Consortium and ARTP now has a membership section for sleep practitioners.

1.1 ARTP Aims & Objectives

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

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

1.2 ARTP Council

Role	
President/Medical NED	Dr James Hull
Chair	Julie Lloyd
Vice Chair	Joanna Shakespeare
Honorary Secretary	Cara Roberts
Honorary Treasurer	Mike Lang
Human Resources/Workforce	Ken Hutchinson
Financial	Mark Hubbocks
Patient NED	Richard Harwood

1.3 ARTP Executive Board

Committee	Chair
ARTP Chair	Julie Lloyd
ARTP Vice Chair	Joanna Shakespeare
ARTP Past Chair	Dr Karl Sylvester
Honorary Secretary	Cara Roberts
Honorary Treasurer	Mike Lang
Communications	Chris Jones
Workforce	Sara McArthur
Standards	Ian Cliff
Paediatrics	Paul Burns
Education & Training	Dr Vicky Moore
Events	Kelly Pauley
Sleep	Sara Parsons

ARTP Patron	Professor Greg Whyte
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The following posts are due to be renewed at the 2020 Annual Conference and the membership will be asked to vote on and endorse the following appointments:

ARTP President

ARTP Honorary Secretary

Please note the following Committee post changes:

- Sara McArthur has become Chair of the Workforce Committee.
- Ian Cliff shall stand down as Chair of the Standards Committee in January 2020, with Peter Moxon becoming the new Chair.
- Paul Burns shall stand down as Chair of the Paediatrics Committee in January 2020, with Jane Kirkby becoming the new Chair.

1.4 ARTP/BTS Joint Strategy Board

Role	
Co-Chair	Julie Lloyd
Co-Chair	Dr Martin Allen
BTS Representative	Dr Graham Burns
BTS Representative	Dr Martin Johnson
BTS In-Training Representative	Dr Kimberley Scott
ARTP Representative	Joanna Shakespeare
ARTP In-Training Representative	Darren Ramsay
Patient Representative	Richard Harwood

The ARTP/BTS joint strategy board has met regularly through 2019 and continues to work on areas of common concern and interest. BTS had identified concerns in the delivery of respiratory physiology within the training curriculum and a further successful Respiratory Physiology Study day was jointly delivered and well attended. It has been agreed to continue to provide this training session at least annually using the same format to support registrars with their Structured Clinical Exam (SCE). The course is open to other health professionals and has been attended by physiotherapists and physiologists; it continues to be oversubscribed with a waiting list for each course.

BTS have directly approached ARTP for suggestions for symposia for the Winter Scientific Meeting 2020, and we have contributed directly to the Specialist Advisory Group (SAG) Annual Report to BTS Board.

Dr Martin Allen, in his role as Respiratory Lead for the 'Getting it Right First Time' (GIRFT) program has provided some excellent insights into the issues facing respiratory services in the UK, particularly those around workforce and its impact on the delivery of the Respiratory Long-Term Plan. His work has had an impact on those services he has reviewed, highlighting the shortfall in all staffing, but particularly those in respiratory and sleep scientists. ARTP has provided information on the range of training pathways currently available for respiratory and sleep scientists and a number of pieces of work are being developed from this.

Whilst we recognise the difficulties around the laboratory/service accreditation program, both financially and the time investment required, we continue to promote and support IQIPS and the increase in quality assured services that accreditation will bring.

2 Finance

Targets 2018-19	Outcome
Maintain financial liquidity including reserves as per policy	Completed and ongoing
Manage budget setting for ARTP Committees	Completed and ongoing
Utilise independent financial advice to ensure that financial management & reporting is robust	Completed and ongoing
e-merchandising and payments	Ongoing
Funding new Website implementation	Ongoing
Business planning process	Ongoing

2.1 Statement of financial activity

	Unrestricted funds	Restricted funds	2019	2018
	£	£	£	£
Income and endowments from:				
Charitable activities	509,614	5,000	514,614	478,937
Investments	694		694	724
TOTAL	510,308	5,000	515,308	479,661
Expenditure on:				
Charitable activities	(506,457)	(1,920)	(508,377)	(430,269)
Other	(1,370)	(-)	(1,370)	(7,839)
TOTAL	(507,827)	(1,920)	(509,747)	(438,108)
Net Income	2,481	3,080	5,561	41,553
Reconciliation of funds				
Total funds brought forward	432,642	7,881	440,523	398,970
Total funds carried forward	435,123	10,961	446,084	440,523

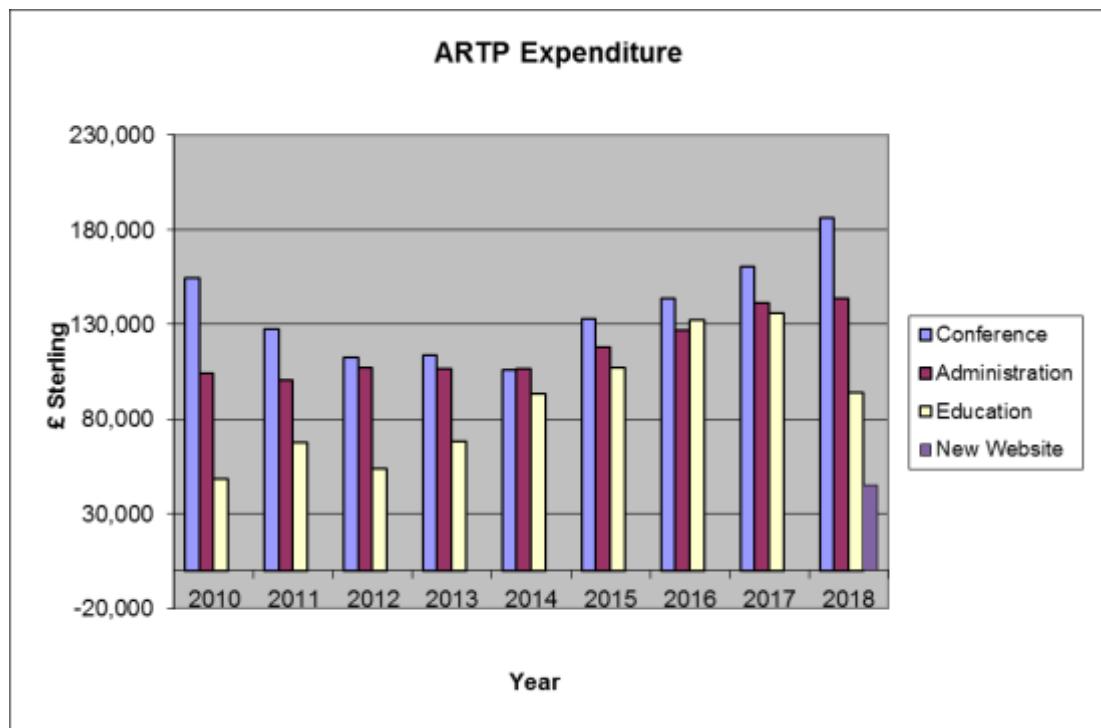
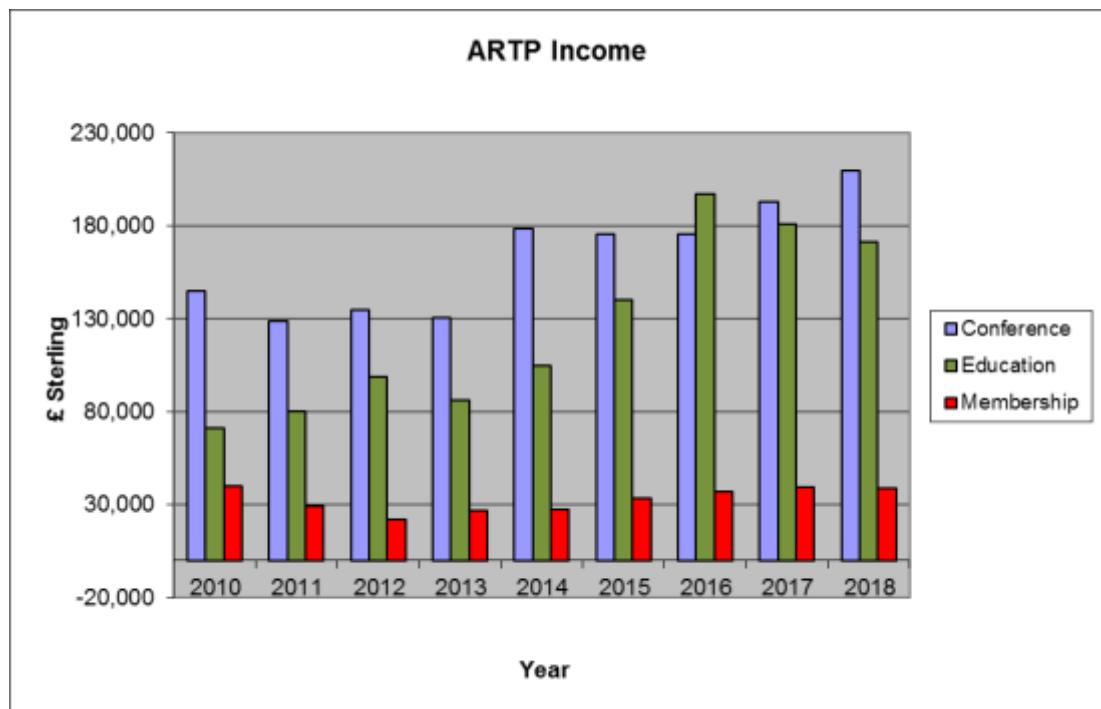
Total assets of £481,909

2017/18 Surplus of £41,553

2018/19 Surplus of £5,561

All accounts on ARTP website

<http://www.artp.org.uk/en/members-area/accounts/index.cfm>



Objectives 2019-20 (Finance)

Maintain financial stability including reserves as per policy

Manage budget setting for ARTP Committees

Utilise independent financial advice to ensure that financial management & reporting is robust

e-merchandising and payments

Complete Funding of new Website implementation

Invest any surplus in to research projects, education & training

The total assets at the end of the year were £435,123. I am pleased to report that due to the hard work of the ARTP Committees, particularly Education and Conference, EBS and the support of members and manufacturers, ARTP has again finished the year with a surplus of £5,561. This is reduced from the previous year due to the new website expenditure. Without this non-recurring expenditure the surplus would have been £50,386, which is a little up on the last 2 years. ARTP will continue to use any surplus to invest primarily in training, education & research, including bursaries and to maintain or minimise increases in current membership fees and course charges.

Funds carried forward are in line with ARTP's Financial Reserves Policy, which should be equivalent to expected annual running costs.

There was a small reduction in income from Education compared to the previous year however costs were significantly reduced resulting in a net Education income of £77,688 which was up from £44,928 the previous year. This reduction in costs was primarily from a combination of savings in administration and venue costs and changes to the delivery of spirometry training. There was no increase in the charge to members for ARTP courses during this year. There remained good support from manufacturers producing income at Conference and other events. Net income from Conference was £23,200 compared to £32,723 the previous year which remains well within target range. Other income comes from sales of books/manuals and advertising. Income from Membership remains stable and membership fees have again remained unchanged and are significantly subsidised by other income.

Recurring Expenditure was in line with expectations with the primary expenditure, as always, being accounted for by Conference, Education and Administration, all of which was again more than offset by the income from Conference and Education. There was additional non-recurring expenditure within the year necessary to procure a new digital partner to develop a much overdue, modern website that will significantly enhance user experience and accessibility for member's, professionals and the public, thereby further raising ARTP's profile.

3 Communications

COMMITTEE

Chair – Chris Jones

Vice-Chair – Emma Ince

Sleep Lead – Trish Matharu

Editorial

Inspire Editor - Aidan Laverty

Inspire Deputy Editor – VACANT

S-NEWS Editor - Alison Butler

Dr Andy Robson

Suhilla Hashimi

Keith Butterfield

Dr Vicky Cooper

Prof Brendan Cooper

Regional Groups Co-ordinator - Geraldine O'Connell-Ramsay

Social Media Lead – VACANT

Campaigns Lead - VACANT

Website Development Lead – Chris Jones

Data Protection Officer – Chris Jones

Core Activities include:

- Promote the service and practice of respiratory and sleep physiology
- Production and promotion of the two ARTP periodical publications – Inspire Journal and 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 Forums (currently 15 active)
- Moderate the ARTP social media accounts – primarily Twitter, Facebook and LinkedIn
- Assist Education, Spirometry and Events teams with internet-based developments and activities
- Facilitate and support regional ARTP groups
- Liaise between the ARTP and other professional bodies
- Oversee the development of and protect the ARTP brand

Targets from 2019	Lead
Deliver the new ARTP website	Chris Jones
Continue to deliver our high-quality publications – Inspire Journal and S-NEWS	Aidan Laverty and Alison Butler
To recruit a Social Media Lead and Campaign lead to ensure ARTP fully partakes in national campaigns	Chris Jones
To facilitate and support the development of the ARTP Regional groups	Chris Jones and Geraldine O'Connell-Ramsey

3.1 Website Development

In 2018 we signed a contract with Senior Internet (www.senior.co.uk) to build and implement a new website for the ARTP which would be based upon up-to-date technology, security and payment systems to keep pace with the modern internet environment. It was anticipated that the new website will go live in April-May 2019 to hopefully coincide with the membership renewal dates, but we have overshot this by 6 months due to some of the complexity we have encountered in harmonising our existing databases, updating others, and then trying to integrate all of this together.

3.2 General Data Protection Act

Another focus for us has been 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 that we are required to do and in line with best practice we may ask our secretariat (Executive Business Support) to repeat an audit we originally conducted in May 2018 to assess our current position.

3.3 Regional Groups

Like ARTP Scotland, ARTP Wales has successfully been established and well done to all of those involved. The development of regional groups encapsulating these countries should enable them to focus on relevant areas specific to its NHS structure as dictated by their devolved status. The existing groups in England 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. We were pleased that the London group was restarted this year, and again our thanks go out to those involved in running two successful meetings.

3.4 Implementation of Digital Platform

Last year it was agreed to use G-Suite 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 appears to have gone well but is still ongoing.

One of the G-Suite tools we are looking to use is GoogleGroups. This functions similarly to YahooGroups, the platform that the ARTP Forum operates upon. There are several advantages to migrating the ARTP Workgroups and Committees over to this platform, including;

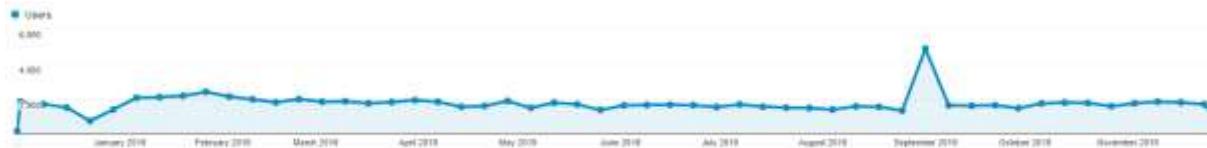
- Security - it is several orders above the security that YahooGroups provide. Yahoo have been hacked several times over the last 5-10 years in which user data has been compromised
- Access – any email account can be used to sign-up to a GoogleGroup, meaning that participants are not required to create a Yahoo account to join

As it stands, we have decided not to attempt to transfer our existing groups over to this platform as Yahoogroups appears to be working well and we have not been made aware of any further data breaches. We will, however, remain vigilant.

3.5 Website Activity (www.artp.org.uk)

Period: 01 Dec 2018 – 30 Nov 2019

The website has had another busy year, however these is a slight drop in activity this year when compared with others.



A significant proportion of this can be attributed to visitors now going to our partners website (Institute for Clinical Science and Technology: www.clinicalscience.org.uk) to view the National Spirometry Register (<http://artp-register.org.uk>). Another explanation is that the proportion of visitors using mobile devices to view our site is increasing – desktop computer visitors are now only 69.0% of the total, with mobile phones now being used by 26.8% of visitors. This has likely led to a drop in total visitors due to our existing website not being scalable for mobile devices and so these visitors likely avoid going to the website. Our new website is fully scalable and so we hope this drop does not become a trend.

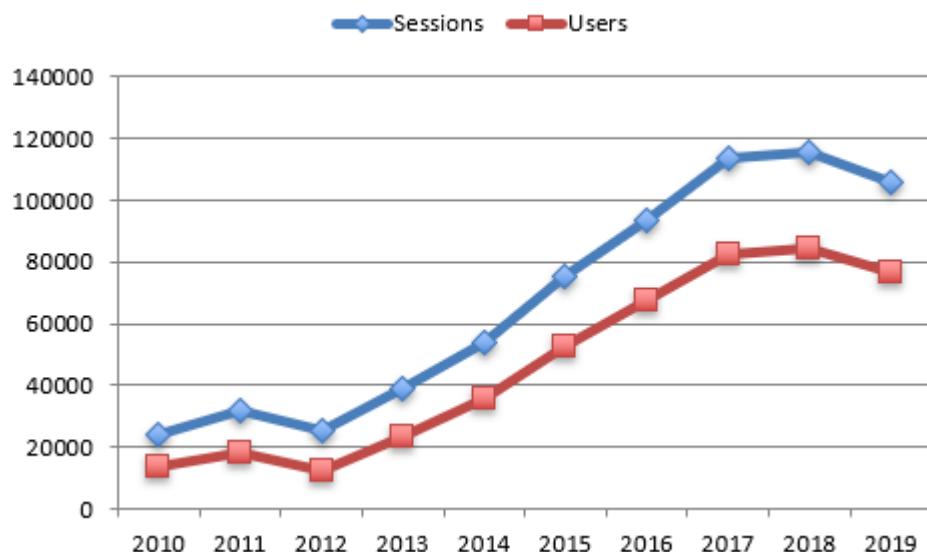
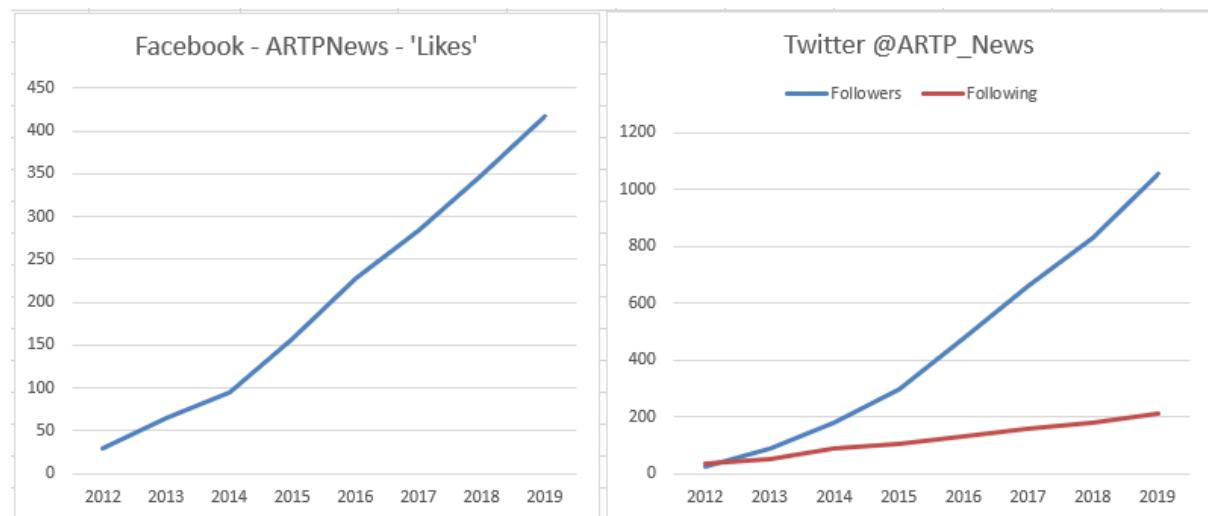


Figure displaying the number of visits/sessions to the website per year and the number of unique users

Ranking	Most Popular Page	Most Popular Country of Origin	Most Popular Search Term
1	Homepage	United Kingdom (62.4%)	Calculations
2	Spirometry	United States (13.5%)	Spirometry
3	Patient – Respiratory Physiology Tests	India (3.8%)	Register (Spirometry)
4	Member Login	Australia (2.3%)	Guidelines
5	ARTP Qualifications	Canada (1.4%)	Reversibility

It is apparent that many of the visitors to our website remain focused upon Spirometry and specifically Spirometry Accreditation and Reaccreditation. Interestingly, the proportion of visitors searching for qualifications suggests that an increasing number of student/apprentice practitioners are visiting the website.

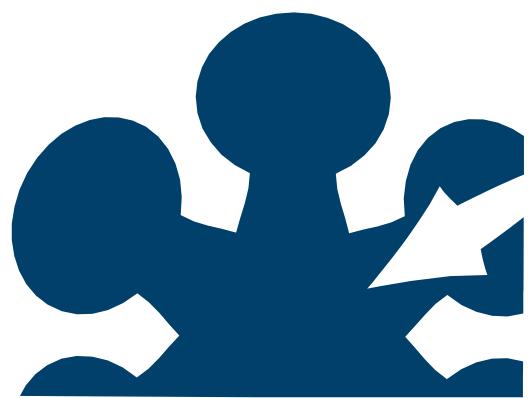
3.6 Social Media Activity



We continue to heavily rely on content generated by a small cohort of individuals and organisations (such as our President, Dr. James Hull, Dr. Karl Sylvester, Professor Brendan Cooper, etc) and so we need to improve our ability to become content and conversation generators. A decision was made by the Communication Committee and the ARTP Board to try and reduce the number of social media accounts the ARTP committees use with an aim to focus more content through our more prominent accounts. This seems to have had an impact on our account followers from 2018 to 2019.

The Communication committee has yet to appoint any candidates to the roles of Social Media Lead and Campaign Lead. Both roles offer not only the opportunity to engage with other organisations and healthcare leaders, and also give opportunities to go to meetings and press releases on the ARTP's behalf. They would offer excellent CPD to the right individual(s), providing advanced notice and insight into future developments in the Respiratory field but without being too labour intensive. In addition, the ARTP Executive Board and Council have agreed to fund a Communications Strategy with the help of a company and/or agency in order to facilitate the ARTP engaging in national and international campaigns. Any prospective candidates can express an interest by emailing: admin@artp.org.uk.

Objectives 2020 (Communications)	Lead
Deliver the new ARTP website	Chris Jones
Continue to deliver our high-quality publications – Inspire Journal and S-NEWS	Aidan Laverty and Alison Butler
To recruit a Social Media Lead and Campaign lead to ensure ARTP fully partakes in national campaigns	Chair/Vice-Chair
Complete and deploy the ARTP Communications Strategy	Comms Chair/Vice-Chair, ARTP Board & Council
Finalise and deliver the Social Media Plan 2020	Comms Chair/Vice-Chair/Social Media Lead
Expanding the number of participating Regional Groups in local meetings and networks	Chair/Vice-Chair/Regional Groups Lead



4 Education & Training

COMMITTEE

Chair – Dr Vicky Moore

Vice-Chair – Edward Parkes

Spirometry

Chair – Joanna Purvis

Vice-Chair – Nikki Williams

Examinations

Chair – Helen Purcell

Vice-Chair – Marie Hardy

Secretary – Matthew Rutter

Madeleine Driskel

Shirley Coelho

Dr Adrian Kendrick

David Clough

Trefor Watts

Jackie Laverty

Rhea Fielding

Emma Fettes

Brett Gregory

Aliya Kaaba

4.1 Courses 2019

We continue to deliver a large number of training courses which are well attended and received. Our course booklet continues to be well received and so this has been developed again for 2020 and launched at the BTS Winter Meeting in December 2019.

We plan to start running the muscle function course again in 2020 and produce new courses based on feedback from our members.

4.2 Courses 2020

The course flyer and booklet is available detailing the list of courses and locations for 2020.

For more information on upcoming courses please visit the ARTP website:

<http://www.artp.org.uk/en/courses/>

4.3 ARTP Professional Examinations

Examinations were held in April and November 2019. A big thank you to all the centres and examiners that helped ensure these ran successfully again. We are delighted to once again be able to celebrate the success of our candidates at the Conference Gala Dinner.

This year we have had 62 candidates (11% increase on 2018) register for the professional examinations. 49 took the examinations with 33 undertaking the practitioner level, 12 the associate and 4 the clinical. The pass rate for 2019 was 76% (84% in 2018).

Dates for 2020 are: 25th April and 7th November.

The Education/Examination committee are still undertaking a review of the professional examination process. There are plans in place to introduce an OSCE type assessment rather than the current practical and clinical viva. This will enable candidates to all be examined in one central location making it easier for candidates and examiners. The OSCEs will be designed to supplement the IRCP and will ensure that all aspects of the syllabus are covered. Further details will be released when they are available.

4.4 Spirometry

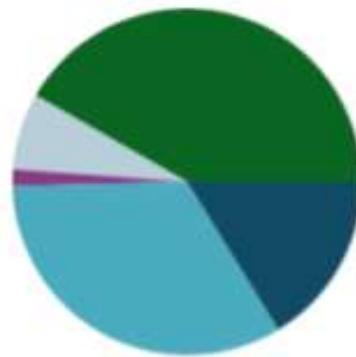
The ARTP Spirometry Certificate moved to the new online portfolio and OSCE system, hosted by ICST, in March 2018. The spirometry scrutiny board that oversees the process has met every 6 months at both the BTS Summer and Winter meetings, but the last meeting was in June 2019 as a new process of scrutiny will be implemented in 2020. ARTP continues to work with the scrutiny board stake holders to develop and improve the process.

As of 13th December 2019, 2317 candidates had registered for the new spirometry certificate process. Figure 1 illustrates the split across the certificate levels and Figure 2 illustrates their progress to date with the electronic portfolio.



Figure 1: Certificate registrations according to certificate level

Portfolio Status Overview



- Not Started (381)
- Started (783)
- Submitted (36)
- Awaiting Resubmission (168)
- Passed (978)
- Failed (0)

Figure 2: Portfolio status for 2346 candidates registered with the certificate process (all certificate levels).

Workshops and OSCE Assessments

There were 59 workshops and 73 OSCE held up until May 2019 with an 80% pass rate for the OSCEs. 13% did not attend their OSCE often due to travel difficulties.

Register

As of 13th June 2019 there were 2420 individuals on the ARTP Spirometry Register. There are 975 individuals whose registration status is due to expire in the next 6 months.

4.5 National School of Healthcare Science

In 2019 there were 13 successful STP graduates in Respiratory and Sleep. The pass rate for the OSFA's was 100%. We hope that all of the STP graduates are able to join us at conference where they will receive an ARTP certificate for completion of their OSFAs.

The intake for STP students has risen from 10 in 2018 to 15 in 2019. Thank you to all those departments training and developing the future Respiratory and Sleep Clinical Scientists.

Mock OSFA's 2020 – 4th March

Live OSFA's 2020 – a currently unconfirmed date between 6th to 17th July

4.6 Tenures

Tenures for Chair, Vice Chair and Chair of Examinations are ongoing for another 2 years. Those in the roles continue to remain dedicated to improving education.

Chair	Dr. Vicky Moore
Vice Chair	Edward Parkes
Chair of Examinations	Helen Purcell

Objectives 2020 (Education & Training)

- To continue to support the implementation of the quality assured spirometry programme**
- To review the professional examinations and develop an OSCE style examination**
- To develop a handbook to support the professional examinations**
- To establish an ARTP asthma course**



5 Standards

COMMITTEE

Chair - Ian Cliff
Vice Chair – Peter Moxon
Dr Karl Sylvester
Peter Moxon
Andrew Pritchard
Dr Jane Kirkby
Michael Hepple
Rasheda Choudhury
Joanna Purvis
Melanie Bryce

Research & Innovation Sub-Committee

Chair - James Stockley
Vice Chair - Richard Glover
Max Thomas
Dr Samantha Irving
Chris Earing
Gavin Comber
Liam O'Reilly
Liesl Carr
Jane Kirkby
Karl Sylvester
Ian Cliff

Manufactures Liaison Sub-Committee

Chair - Matthew Rutter
Prof Brendan Cooper
Alan Moore

5.1 Lung Function Testing Recommendations Update

The working group has met throughout the year with most of the work being completed through electronic communication. It has been important wherever possible, to align these recommendations with other ARTP publications and to ensure emerging new evidence is included.

The group have produced the final document, which has now been handed over to the board for ratification. The plan is for publication in an open access journal, with a copy also going to all Respiratory Physiology Laboratories.

5.2 Research Update

The research committee has continued to grow which has increased the knowledge and experience available to the membership.

Much of the work has centred on developments for the launch of the new ARTP website in early 2020. These include video abstracts presented from conference. Additional material is planned and includes Cardio-pulmonary exercise testing (CPET), Non-invasive Ventilation (NIV), respiratory muscle function and ventilatory control. Furthermore, there is also a plan to provide podcasts on relevant areas within the specialties along with interviews with key figures within the field of Respiratory and Sleep medicine.

Research and innovation will again have specific sessions at conference to showcase the high standard of work conducted within respiratory and sleep physiology services, which includes service/quality improvement and innovation.

5.3 Manufacturers Liaison

We have continued to be the link between Respiratory/Sleep Physiology companies and the membership, providing assistance and advice when needed.

A considerable amount of work has gone into the ARTP Industry Survey, which continues to be delivered via Survey Monkey, which has realised a record number of responses this year.

The committee continues to provide support and information including;

- IT security
- Tendering process
- Impact of Brexit
- Implementation of GLI

5.4 Improving Quality in Physiological Services (IQIPS)

The Standards committee are dedicated to supporting departments attain this nationally recognised accreditation (NHS England, CQC and CCGs) that demonstrates adherence to a national standard. We have completed a number of documents that are available to the membership for adaption and implementation into their service which are now linked to specific IQIPS domains. These include;

- Professional standards
- Health & Safety
- Infection control
- Quality Assurance
- Lung function reporting
- General testing considerations

5.5 Other

We have continued to work with the British Lung Foundations and made a significant contribution to their breathing and lung function tests booklet, which was shortlisted at the British Medical Association awards.

We have continued to work with the British Lung Foundations and made a significant contribution to their breathing and lung function tests booklet, which was runner up at the British Medical Association awards 2018.

Due to the valued contribution, the BLF have requested the committee undertake another full review of their literature, which is currently in the final stages of completion.

Objectives 2020 (Standards)
Publish guideline document in an open access journal
To support the implementation of IQIPS:
<ul style="list-style-type: none">Provide a CPET accreditationProvide a forum for the development of knowledge and skills regarding CPET testing
Have a significant profile within the new website
Support on-going research and innovation



6 Events

COMMITTEE

Chair – Kelly Pauley
Vice-Chair – Laura Jess
Dr Karl Sylvester
Julie Lloyd
Joanna Shakespeare
Alan Moore
Joanna Purvis
Karen Lewis-Jones
Tracy Herod
Matthew Rutter
Sara Parsons
Mike Lang

6.1 Conference 2019 - Glasgow

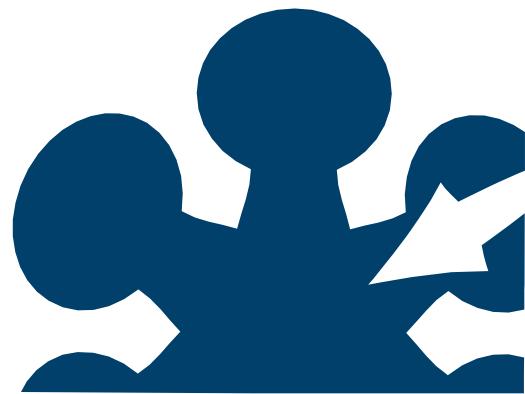
The 2019 conference in Glasgow was very well received by the membership, and one of the most successful to date. The conference programme was filled with engaging speakers and highlights included “PK Morgan Memorial Lecture: Life and Times of Dr. John Cotes” by Dr David Chinn, “Extreme Physiology Session: The fit to fly Royal Air Force Pilot” by Dr Gary Davies and “Recipient of Medics Award: CPAP therapies in different populations” by Dr Renata Riha. The content of the poster discussions and presentations was extremely high and very well attended on both days. Feedback from delegates extended to the social programme with positive comments on the street food and the karaoke/disco on the Thursday evening, and the awards gala dinner on the Friday evening being extremely well received. Twenty one students were able to attend the conference to collect their certificate for the ARTP Professional Qualifications or Scientist Training Programme. The hotly contested ARTP Manufacturers awards are shown below with the other deserving winners for Services to Respiratory Medicine:

Award	Winner
ARTP Award for Services to Respiratory Medicine 2019 - Medic	Renata Riha
ARTP Award for Services to Respiratory Medicine 2019 - Physiologist	Simon Ward
ARTP Small Diagnostic Manufacturer of the Year 2019	Circassia
ARTP Sleep Therapy Manufacturer of the Year 2019	Fisher & Paykel
ARTP Sleep Diagnostic Manufacturer of the Year 2019	S-Med
ARTP Lung Function Manufacturer of the Year 2019	Medical Graphics
Sue Hazard Award 2019 (Practitioner)	Salima Khatun
Suzanne Davis Award 2019 (Associate)	Sarah Slimm

6.2 NSD 2019 – Hilton Metropole, Birmingham

The National Strategy Day 2019 was an opportunity to engage with other Heads and Deputy Heads of Service with regards to professional issues, developments and areas for discussion. The format of the 2019 programme changed slightly, moving away from the traditional sessions from the sleep, education and standards committees to a full programme addressing a range of National issues over Respiratory and Sleep Physiology. There was evident input from devolved Nations in discussion sessions and engagement of sharing best practice between services. Feedback on the change in programme format was extremely high and programme content was described to be the best yet. Planning for next year will take into account the programme format change and issues of National concern.

Objectives 2020 (Events)
Deliver a successful annual conference in Birmingham
Source appropriate venue for the 2020 National Strategy Day
Deliver a successful National Strategy Day
Source and book an appropriate venue for the ARTP conference 2021



7 Sleep

COMMITTEE

Chair – Sara Parsons
Vice Chair - Alan Moore
Dr Vicky Moore
Alison Butler
David Clough
Professor Brendan Cooper
Dr Lizzie Hill
Dr Aditi Desai
Dr Adrian Kendrick
Trish Matharu
Andrew Morley
Julie Lloyd
Emma-Jane Simpson
Emma Sharratt

SLEEP APNOEA CONSORTIUM

Chair

Prof. Brendan Cooper

Vice-Chair & Medical Representative

Dr Ian Smith

Clinical Members

Dr Martin Allen, British Thoracic Society
Sara Parsons, ARTP Sleep Chair
Dr Vicky Cooper, ARTP
Dr Aditi Desai, British Society of Dental Sleep Medicine
Dr Adrian Kendrick, ARTP
Dr Tim Quinnell, British Sleep Society
Alan Moore, ARTP Manufacturers Liaison Committee
Chris Rogers, Sleep Apnoea Trust
Julie Lloyd, ARTP Chair
Dr Colin Wallis, British Paediatric Respiratory Society

Company Representatives

Drive DeVilbiss	Sally Wright
Fisher and Paykel	Sophie Danks
Philips Respironics	Bernadette Coleman
ResMed	Ed Lee
SMed Ltd	Selwyn Sher
Itamar Medical	Eilon Livne
Dolby Vivisol	Steve Cottee
Loewenstein Medical	Jonathan Hall

7.1 Courses

The sleep committee delivered two successful sleep courses and a non-invasive ventilation course. The Basic Sleep Course in September 2019, was held in Bristol and provided a broad introduction to sleep physiology and the pathophysiology of sleep breathing disorders. We developed the interactive polygraphy scoring session further. Although it was well-received, we recognise that more time needs to be allocated. This is being considered for next year. The overall score for the course was very good at 4.4/5.

In June 2019 we ran a two day Advanced Sleep Course in Bristol. The first day comprised of neurological based sleep physiology and pathophysiology including parasomnias, insomnia, circadian rhythm disorders and sleep disordered breathing. The second day built on the basic sleep course foundations encompassing sleep disordered breathing and advanced treatments. It was the first year we incorporated polysomnography interactive scoring to the course which was well-received. This was reflected in the overall score at 4.6/5 which was higher than the previous year.

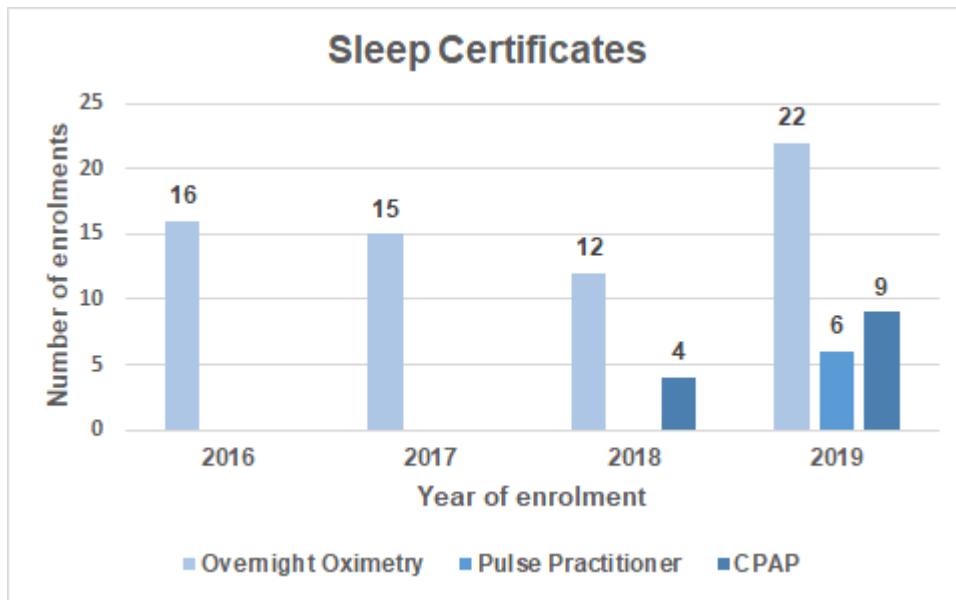
The non-invasive ventilation course runs every two years with 2019 demonstrating reasonable attendance and very good overall score at 4.4/5. The two days focussed on pathophysiology including neuromuscular diseases, acute and domiciliary NIV, airway clearance, and how to use data to optimise treatment. The format included a review of guidelines, lectures and hands-on interaction; all using a multi-disciplinary team of speakers with vast amounts of experience and expertise.

We will continue to refine sessions accordingly based on the feedback received.

7.2 Certificates

There has been steady interest in the range of certificates the sleep committee offer. We have developed further certificates in the form of an associate CPAP and a progression option for those that have completed the associate and wish to demonstrate practitioner level. All three CPAP certificates (associate, progression and practitioner) have recently been reviewed and revised after a quality assurance check highlighted the need for clarification and standardisation. This revised documentation is currently under review by the Education Committee. Once the CPAP certificates are complete, the diagnostic certificates will also be reviewed. Quality assurance has been completed in preparation.

The graph below shows the number of enrolments for the Overnight pulse oximetry, CPAP and Pulse oximetry and polygraphy practitioner certificates. The latter two certificates were released in 2018 and 2019, respectively. With further expansion to the CPAP certificate due in 2020. We need to continue to advertise these during courses, conference and on the website.



7.3 ERS

The Sleep Committee has been working with European Respiratory Society (ERS) to provide access to the ERS sleep modules for ARTP delegates at a reduced rate. This is to support and compliment the Basic and Advanced Sleep Courses and to allow the delegates to attain appropriate CPD and certificates demonstrating on-going learning and understanding. The ERS sleep programmes were designed to be modular so that healthcare scientists, AHPs and nurses could access them as well as medical doctors. In addition, the Sleep Committee has been asked to provide an additional module to supplement those already available and this will focus on sleep physiology. This has been agreed and is currently being written. It is likely that this will be shared with ERS and used by healthcare staff across Europe.

7.4 CPAP Certification Scheme

To date, we have:

- Five fixed pressure devices that have met or exceeded standards set, when submitted for independent laboratory tests, for noise, short-term pressure accuracy and humidifier performance.
- Three auto-adjusting devices that, when tested in fixed pressure mode, have met or exceeded standards set, when submitted for independent laboratory tests, for noise, short-term pressure accuracy and humidifier performance.
- One fixed pressure device and one auto-adjusting device (tested in fixed pressure mode) that did not meet the standards set, when submitted for independent laboratory testing, for short-term pressure accuracy.

We have tested four auto-adjusting devices with a number of event sequences in laboratory testing to determine recognition and response to:

- Obstructive apnoea and hypopnoea
- Central apnoea and hypopnoea
- Periodic and Cheyne-Stokes breathing

The initial results were encouraging. One device responded as our draft standard specified. The remaining devices were partially successful. A modification of some waveforms yielded some improved performance but the originally successful device did not perform as well.

What is so important is the spirit of cooperation which has developed with the manufacturing companies. One company has even shared flow charts for their proprietary control sequences with us and others, no doubt, will follow.

Our goal is to achieve a sequence of waveform response tests for auto-adjusting devices to ensure that those devices tested are fit for purpose and safe. Our work is very much on track and we are most grateful for the cooperation and support we're receiving from our industry partners.

7.5 NHS Supplies Framework Document for Diagnostic, CPAP, NIV and High Flow O₂ Devices

An opportunity arose in November due to the quick thinking of an Executive Board Member for ARTP to make a major input into a new framework document from NHS Supplies. Framework documents are used to set out minimum specifications for products. The original draft received was, frankly, very poor. Thanks to ARTP being given the opportunity to submit, with the agreement of NHS Supplies, a substantially revised document has led to the basic specification for the above devices now being, to all intents and purpose, that which is set out in our ARTP Sleep Standards of Care. That is a major step forward and shows what can be achieved when ARTP becomes involved.

Objectives 2020 (Sleep)
Deliver one basic and one advanced sleep course
Review and amend the diagnostic certificates
Continue with supporting all certificates
Development of the ERS sleep physiology module
Agree revised draft of Appendix D of CPAP (Technical & Performance) Document with industry partners and move forward to independent laboratory testing of the revised waveform events and sequences

A

8 Workforce

COMMITTEE

Chair – Sara McArthur

Vice-Chair – VACANT

Kelly Pauley

Tracey Fleming

Rosemary Fillingham

Helen Yates

Claire Haynes

Andy Stubbington

The workforce committee has continued to be active throughout 2019 with a primary focus on continuing to promote the ARTP and to provide its members and stakeholders with up to date information in regards to national matters within the respiratory and sleep field.

Throughout the year committee members have had a presence at various conferences such as the Primary Care Respiratory Society (PCRS), Interstitial Lung Disease Interdisciplinary Nurses Network (ILD-INN), European Respiratory Society (ERS-this year in Madrid), British Thoracic Society (BTS) Summer and Winter meetings. The conferences have been attended to highlight the great work the ARTP undertakes to both respiratory and non-physiologist disciplines and to promote the educational opportunities that ARTP offer. We now hold a registry of volunteers that we utilise to help cover the conferences.

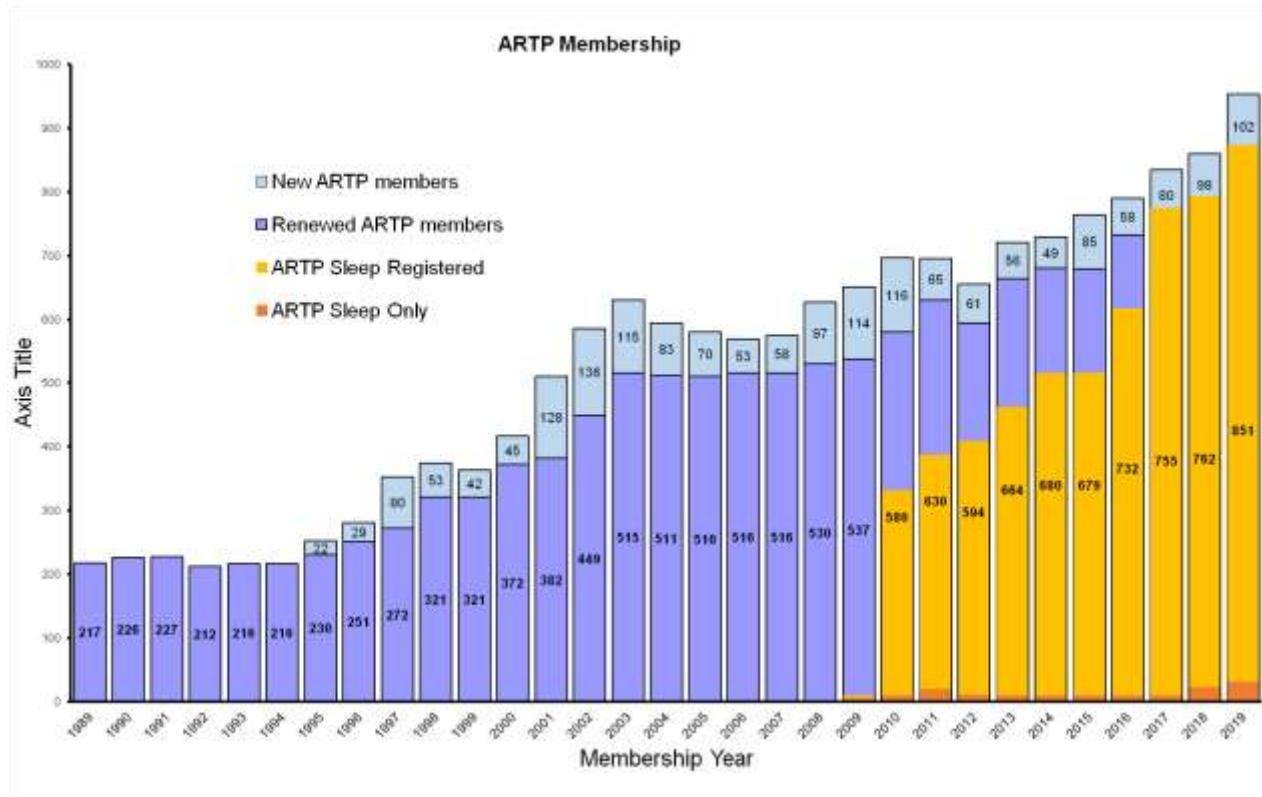
As a committee we try to recruit more physiologist members to join the ARTP and to engage memberships from other healthcare professionals such as nurses, physiotherapists etc. The membership numbers have been gradually increasing and we strive for this to continue. We also answer questions via the website pertaining to working in the field from national and international professionals.

The committee has been actively involved in the initiation of the Taskforce for Lung Health five year plan. The Taskforce for Lung Health has been very well received from a collaborative and clinical perspective. The committee has also been instrumental in helping to address the workforce needs of the future NHS such as trying to ascertain the number of physiologists required to keep up with increasing demands on services.

The workforce committee has continued to provide representation on the ARTP and Registration Council for Clinical Physiologists (RCCP) committees. For both societies the committee has also continued to vet referrals for new membership applications. The committee has also continued to represent the ARTP on regulatory committees such as the RCCP, Academy of Healthcare Science (AHCS) and Association of Clinical Scientists (ACS). The committee continues to approve all job vacancy advertisements within the profession advertised via the ARTP. The RCCP CPD audit is now in progress and is a bi-annual process with candidates already being informed and assessors assigned to each individual.

We continue to strive in our plans for 2020 mainly focusing on the development of a careers and workforce section of the new ARTP website, where we wish to promote continuing

professional development and to actively promote respiratory physiology as a career. We have also started to try and engage students earlier in their career choices such as at school, university, into a career in respiratory/sleep physiology by attending healthcare science events and actively promoting the career on Twitter.



Objectives 2020 (Workforce)

Promote the role of respiratory and sleep physiology to a wider audience (patient and public involvement)

Develop a CPD section on the ARTP website to help candidates fulfil their CPD obligations - with a sub section to provide guidance on MSc Equivalence

Increase registration numbers further

Help give guidance on required numbers for the long term workforce to meet the demand for future testing

9 Paediatrics

COMMITTEE

Chair - Paul Burns
Vice Chair – Dr Jane Kirkby
Laurie Smith
Stephanie Brotherton
Emma Fettes
Matt Davies
Elise Buchan

9.1 Spirometry Education

The group have continued to deliver the Paediatric spirometry course with 2 courses at GOSH and 2 courses in Sheffield.

The E-learning course is currently on hold but will be implemented at a future date.

Spirometry Workshops were delivered at the King's John Price Paediatric respiratory Conference.

9.2 Education on other ARTP courses

There has been paediatric input and speakers on the following ARTP courses this year:

- Lung Function Reporting
- Cardio-Pulmonary Exercise Testing
- Basic Sleep Course
- Advanced Sleep Course

Great Ormond Street Hospital delivered a multi-breath washout course.

9.3 Other notable activities/achievements

ARTP PFT guidelines were completed with a paediatric chapter.

Sheffield & GOSH have had STP students. Glasgow RHC have had an STP student to do their elective placement in paediatrics.

Laurie Smith gained his PhD in respiratory physiology & imaging and won the 'Best Abstract award' at the ERS for his submission to the Cystic Fibrosis group.

Updated web site content has been submitted for paediatrics.

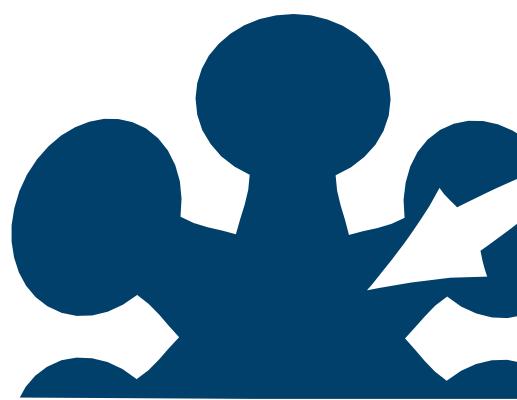
9.4 The Future

Paul's term as chair has come to an end. Jane Kirkby will replace him after this conference and appoint a new vice chair. Paul will remain on the committee.

The Committee shall continue with ongoing educational activities.

The Committee shall also look to get the E-spirometry paediatric course up and running.

The Committee shall perform a Paediatric quality control and standardisation task where we visit each other's labs and evaluate testing protocols and procedures.



Thank you

ARTP wish to give thanks to all members for their continued support and invite members to attend the Annual General Meeting, taking place on 16th January 2020 at 3pm at the Hilton Birmingham Metropole. An agenda for the meeting is available on the ARTP website.