

# BIR ANNUAL CONGRESS 2020

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4–6 November 2020  
Virtual event



#BIRAC20



# BIR Annual Congress 2020

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The BIR Annual Congress continues to grow. After being sold-out consecutively in 2018 and 2019, we are back this year with four exciting streams that offers a comprehensive programme on the latest innovations in imaging and treatment to medical imaging professionals and their senior management teams.

Taking place over three half days with a mix of four streams, the virtual event provides excellent opportunities to engage and interact with attendees, speakers and industry representatives in an open and relaxed format.

## Who should attend?

This multidisciplinary event will appeal to anyone within radiology, radiation oncology and the underlying sciences, including radiologists, physicists, radiology managers, radiographers, oncologists, clinical scientists, physicians, heads of department, decision makers, radiation protection advisers and supervisors.

## Five reasons to attend

1. Enhance your knowledge
2. Hear from experts in the field
3. Network with colleagues and peers
4. Extensive ePoster exhibition
5. Meet industry representatives

# Back to the future

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## CPD credits

The full Congress is worth up to 21 CPD credits in total:

Day 1 = 4 CPD credits

Day 2 = 3 (AI) and 2 (Patient protection) CPD credits

Day 3 = 3 CPD credits

The pre-congress sessions are worth 1 CPD credits each. You will be required to complete a self-reflection for each of these sessions to claim your CPD credits.

## ePosters

We once again see the return of electronic posters but in an online format, which can be viewed anytime from a computer, laptop or mobile device.



## Headline sessions

### **The BIR Sir Godfrey Hounsfield lecture and awards**

Dame Clare Gerada

Medical Director

Practitioner Health Programme

Wednesday 4 November 13:40



### **The BIR/Canon Memorial lecture**

Professor Evis Sala

Professor of Oncological Imaging

University of Cambridge

Friday 6 November 15:20



# THE BIR ANNUAL CONGRESS 2020

## WELCOMES ITS INDUSTRY PARTNERS

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Aidence rallies the brightest minds in deep learning and radiology to create Veye Chest, an AI-based assistant for lung nodules on chest CT. Cutting through the hype around AI, we bring applications that add value for radiologists. Veye Chest is currently running in Lung Health Checks pilot sites and in routine practice across the UK.



**TMC**  
RADIOLOGYREPORTING

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Zebra-Med's mission is to impact hundreds of millions of patients' lives by teaching computers how to read and diagnose medical imaging scans. In a world where 4 billion people lack access to expert radiology advice, with a growing and aging population, and burnt-out and retiring radiologists, there is an acute need to leverage existing imaging data, in order to quickly build AI solutions that will help both doctors

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The logo for Medical Protection, consisting of the words 'Medical' and 'Protection' in a white, sans-serif font, separated by a vertical white line. To the right of the text is a circular emblem containing a blue and white caduceus symbol.

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We protect and support the professional interests of more than 300,000 members around the world. Membership provides access to expert advice and support and can also provide, depending on the type of membership required, the right to request indemnity for any complaints or claims arising from professional practice. Our in-house experts assist with the wide range of legal and ethical problems that arise from professional practice. This can include clinical negligence claims, complaints, medical and dental council inquiries, legal and ethical dilemmas, disciplinary procedures, inquests and fatal accident inquiries. Our philosophy is to support safe practice in medicine and dentistry by helping to avert problems in the first place. We do this by promoting risk management through our workshops, E-learning, clinical risk assessments, publications, conferences, lectures and presentations.





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# Pre-Congress sessions

**Monday 26 October**

## ONCOLOGY

- |       |  |
|-------|--|
| 13:00 | <b>Update on novel diagnostic and therapeutic tracers</b><br>Professor Gary Cook, Professor of PET Imaging, King's College London  |
| 14:00 | <b>Next generation workflow accelerators in radiation oncology</b><br>Chris Polley, Oncology Solutions Lead, Philips Healthcare;<br>James Williams, Head of Treatment Planning Physics, South Wales Cancer Centre, Swansea; and Douglas Etheridge, Head Radiotherapy Physics Technologist, Swansea Bay University Health Board |

**PHILIPS**

**Tuesday 27 October**

## PATIENT PROTECTION: NEW TECHNIQUES, TECHNOLOGIES AND STANDARDS ONCOLOGY

- |       |  |
|-------|--|
| 13:00 | <b>Medical Physics Expert – from best practice to expected practice, the new norm</b><br>Mr Matthew Dunn, Head of Radiation Physics, Nottingham University Hospitals NHS Trust |
| 18:00 | <b>MR imaging of liver metastases: State-of-the-art</b><br>Professor Dow-Mu Koh, Consultant Radiologist in Functional Imaging, The Royal Marsden NHS Foundation Trust          |



**Wednesday 28 October**

## ARTIFICIAL INTELLIGENCE – THE IMPACT AND IMPLICATIONS FOR THE WORKFORCE

- |       |  |
|-------|--|
| 13:00 | <b>Current trends in radiology and implications on the workforce</b><br>Dr Hugh Harvey, Director, Hardian Health |
|-------|--|

**Thursday 29 October**

## LEADERSHIP AND WELLBEING

- |       |   |
|-------|---|
| 13:00 | <b>Imaging networks of the future</b><br>Dr Daniel Fascia Consultant Radiologist Harrogate and District NHS Trust |
| 13:15 | <b>Panel discussion</b><br>Andrew Howlett, Dr Iain Macleod, Fiona Thow and Simon McGuire                          |



**Friday 30 October**  
**ONCOLOGY**

13:00 **Update in novel radiotherapy delivery – what the radiologist needs to know**  
Dr Alison Tree, Consultant Clinical Oncologist, The Royal Marsden NHS Foundation Trust

**Monday 2 November**  
**ARTIFICIAL INTELLIGENCE**

13:00 **Search and discovery in radiology: Comparing patients for diagnosis**  
Dr George Langs, Chief Scientist and Co-Founder, contextflow and  
Professor Helmut Prosch, Associate Professor of Radiology, Medical  
University of Vienna



13:20 **My view on AI in imaging**  
Dr Orit Wimpfheimer, Clinical Director, Zebra Medical Vision



13:40 **BoneXpert: An example of AI in clinical radiology practice**  
Professor Amaka Offiah, Professor in Paediatric Musculoskeletal  
Imaging and Consultant Paediatric Radiologist, University of Sheffield  
and Sheffield Children's NHS Foundation Trust



**Tuesday 3 November**  
**INAUGURAL SESSION**

19:00 **Radiology 2020 : Looking back and lessons learned for the future**  
Professor Vijay Rao, Senior Vice President – Enterprise Radiology and Imaging, Jefferson  
Healthcare and Past-President, Radiological Society of North America





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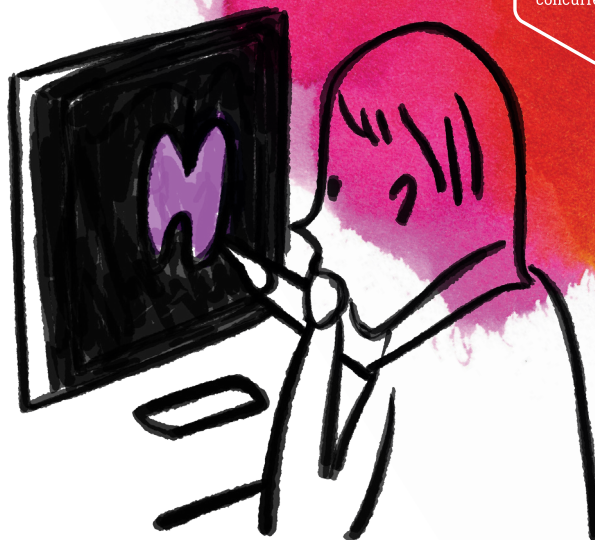


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# Veye Chest

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Veye Chest  
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## Veye Chest clinical features



### Detection

- $\geq 3\text{mm}$  and  $\leq 30\text{mm}$  in size
- Solid and sub-solid nodules

(part-solid/ground-glass opacity)



### Quantification

- Diameters: long axis, perpendicular short axis, and the average axial diameter
- Volume: per-slice segmentation and 3D visualisation



### Growth assessment

- Growth percentage
- Volume Doubling time (VDT)



### Integration

- Seamless integration with any PACS

## Why radiologists choose Veye Chest:

"I love the detection indications. It is a simple yet effective solution that really helps me to report nodules faster. I directly know where to find them."

Dr. Caroline McCann, Liverpool Heart and Chest Hospital NHS Trust Foundation (UK)

"Veye helps us read CT chest scans faster because it provides clear markers for nodules."

Dr. Floris Rietema and Dr. Paul Algra, Northwest Clinics (the Netherlands)



# Wednesday 4 November

## LEADERSHIP AND WELLBEING

13:30 **President's welcome and introduction**

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

13:35 **BIR Awards**

13:40 **The BIR Sir Godfrey Hounsfield lecture and awards: 'Leadership during crisis'**

Dame Clare Gerada, Medical Director, Practitioner Health Programme

14:40 **Break**

**Chair: Dr Elizabeth Loney and Dr Teik Choon See**

14:50 **Radiology services – tipping the balance**

Mr Chris Kalinka, President-Elect, Society of Radiographers

15:20 **Difficult professional interactions during COVID-19**

Dr Sarah Coope, Senior Medical Educator; and Dr James Thorpe, Medicolegal Consultant, Medical Protection Society

15:50 **Medical professionalism**

Professor Jane Dacre, Professor of Medical Education and Director, University College London Medical School

16:20 **Break**

16:30 **Burnout plus Covid-19 = A toxic combination for the medical profession**

Dr Susie Hunt, Professional Wellbeing and Clinician Support, Cambridge University Hospitals NHS Foundation Trust

17:00 **A doctor's story**

Professor Henrietta Bowden-Jones OBE, Director, National Problem Gambling Clinic

17:30 **RCR Support and Wellbeing Group**

Dr Teik Choon See, Consultant Radiologist, Addenbrooke's Hospital

17:45 **Close of day**



**“The access to patient history means I am granted the full picture as I would get in the NHS - there is no compromise on quality”**  
Consultant radiologist

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# Thursday 5 November

## ARTIFICIAL INTELLIGENCE – THE IMPACT AND IMPLICATIONS FOR THE WORKFORCE / PATIENT PROTECTION: NEW TECHNIQUES, TECHNOLOGIES AND STANDARDS

13:30 **President's welcome and introduction**

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

### Session 1: Artificial intelligence – the impact and implications for the workforce

**Chair: Dr Hugh Harvey and Dr Sridhar Redla**

13:35 **AI in radiography**

Professor Maryann Hardy, Professor of Radiography and Imaging Practice Research, University of Bradford

14:05 **AI in radiotherapy**

Dr Raj Jena, Group Leader, Machine Learning and Radiomics in Radiation Therapy, University of Cambridge

14:35 **Validation and deployment of AI – resourcing and workforce considerations for NHS Trusts**

Mr Simon Harris, EMRAD Senior Project Manager, East Midland Radiology (EMRAD) Consortium; and Dr Jonathan James, Consultant Radiologist, Nottingham Breast Institute

15:05 **Break**

15:40 **The role of AI in developing the targeted lung health check (THLC) programme**

Dr James Shambrook, Consultant Cardiothoracic Radiologist, University Hospital Southampton NHS Foundation Trust

16:00 **Increased quality with AI**

Dr Gareth Davies, UK Medical Director and Head of Body Section, Europe, Telemedicine Clinic



16:20 **Scalable augmentation of non-radiologist clinicians for point of care radiology**

Dr Matthew Lungren, Assistant Professor of Radiology, Stanford University Medical Centre

17:05 **Break**

### Session 2: Patient protection: New techniques, new technologies and standards

**Chair: Mr Andy Rogers**

18:30 **Patient Pb protection – the new guidelines**

Mr Peter Hiles, Head of Radiation Physics, Glan Clwyd District General Hospital

19:00 **Patient Pb protection – a radiographer's perspective**

Professor Mark McEntee, Professor of Diagnostic Radiography, University College Cork, Ireland

19:30 **Break**

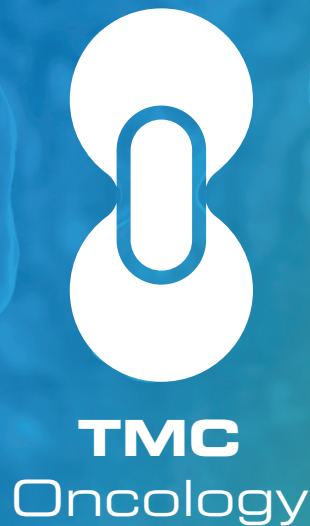
19:40 **CQC inspections: Expectations and consequences for quality control, optimisation and radiographer knowledge**

Miss Rachael Ward, Inspection Manager IR(ME)R, Care Quality Commission

20:10 **Health and Safety Executive inspections: Feedback on findings**

Mr Stewart Robertson, HM Principal Specialist Inspector of Health and Safety (Radiation), Health and Safety Executive

20:40 **Close of day**



## Supporting the NHS to Deliver Urgent Care

TMC Oncology comprises sub specialist expert groups of radiologists, coming together to deliver quality assured radiology reporting to support the NHS in improving patient outcomes by providing effective, efficient, and accurate diagnosis.

The ambition of the National Health Service is to allow every person with cancer to have the very best diagnosis, treatment, and care. Early, prompt, and accurate diagnosis is key and will enable patients to access treatment where there is a better chance of achieving a complete cure. TMC is proud of the partnership it has held with the NHS since 2005, delivering true specialist extra capacity, together achieving this goal.

### Bringing Quality Healthcare to all People

The core value of TMC is to bring uncompromising quality health care to all people. We facilitate sub-specialist reporting, meaning radiological examinations are always allocated to the most skilled, experienced, and highly competent radiologist within the specific TMC Oncology subgroups.

The core purpose of TMC Oncology is to further enhance subspecialty reporting and expertise in turn supporting the NHS Long Term Plan.

### GMC Registered Radiologists

All TMC Radiologists have GMC registration, have worked in their particular sub specialist environment for more than two years.

### Covering all Major Clinical Disciplines

TMC Oncology covers all major cancer clinical disciplines providing reporting services to support early cancer diagnosis, 2 weeks wait pathways and cancer surveillance. Several specialist groups have been developed enabling access to expertise, providing core principles of clinical advice, protocol guidance, communication, knowledge sharing, and education and include:

- Colorectal Reporting (CTC) and MRI Rectum
- Cancer and Screening Services
- MR Prostate
- Female Gynae/Pelvis
- Breast Imaging
- Hepatobiliary imaging

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# Friday 6 November

## ONCOLOGY

13:30 **President's welcome and introduction**

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

**Chair: Christina Messiou**

13:35 **Whole body MRI in myeloma – MY-RADS**

Dr Christina Messiou, Consultant Radiologist, The Royal Marsden NHS Foundation Trust

14:05 **Whole body MRI in metastatic bone disease – MET-RADS**

Professor Anwar Padhani, Consultant Radiologist, Paul Strickland Scanner Centre

14:35 **Quantitative whole body MRI**

Professor Dow-Mu Koh, Consultant Radiologist in Functional Imaging, The Royal Marsden NHS Foundation Trust

15:05 **Break**

15:15 **BJR Awards**

15:20 **The BIR/Canon Memorial lecture: 'Integrated radiogenomics for virtual biopsy and treatment monitoring in ovarian cancer'**

Professor Evis Sala, Professor of Oncological Imaging, University of Cambridge

16:20 **Close of Congress**

FerriScan is internationally recognised as the gold standard in liver iron concentration (LIC) measurement and is included in a number of international Standards of Care.

FerriScan is a system for quantifying liver iron concentration (LIC) from specially acquired MRI images. The images used are standardised R2-MRI images (acquired using the 'FerriScan protocol') and proprietary internationally regulatory-cleared software is used to quantify liver iron concentration (LIC). FerriScan is used in over 50 countries in the routine diagnosis and management of patients, and in multi-national clinical trials.

FerriScan was granted clearance by the FDA (US) for the quantification of LIC in 2005. In January 2013 FerriScan gained an additional clearance from the FDA as a companion diagnostic to aid in the identification and monitoring of non-transfusion-dependent thalassemia patients receiving therapy with deferasirox. FerriScan also has clearances from the TGA (Australia) and CE Mark (Europe).

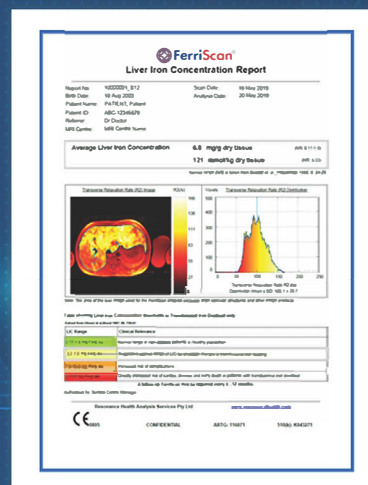
The FerriScan process uses patented R2-MRI imaging technology. Once MRI images have been acquired, these images are securely transmitted via webportal to Resonance Health. The Resonance Health weportals are HIPAA, GDPR, and Privacy Act compliant. Once analysis is complete, results are returned via webportal. For information on data transfer processes and security please contact [info@resonancehealth.com](mailto:info@resonancehealth.com).

## The FerriScan Report

FerriScan was originally calibrated against liver biopsy in patients with various iron overload conditions.

- The FerriScan technique is robust
- There is no shift in accuracy or precision across different MRI scanners
- FerriScan is unaffected by fibrosis or chelation therapy
- FerriScan can be used for patients of all ages including neonates

An increasing number of patient treatment guidelines for thalassaemia, sickle cell disease, myelodysplastic syndrome and haemochromatosis recommend using FerriScan to quantitatively measure liver iron concentration.



## Key FerriScan Features

- ✓ FerriScan provides an accurate, validated MRI-based measurement of liver iron concentration
- ✓ FerriScan has high sensitivity and specificity for measuring LIC
- ✓ FerriScan is non-invasive, requires no contrast agents and has a scan time of approximately 7-9 minutes
- ✓ FerriScan measures across the full range of iron loading seen in clinical practice
- ✓ Image analysis and LIC reporting is performed at a central ISO 13485 certified core laboratory
- ✓ FerriScan has international regulatory clearances (FDA, CE Mark, TGA)
- ✓ Results are available within a target time of two business days

- ✓ FerriScan results are clinically validated to be unaffected by inflammation, fibrosis or cirrhosis
- ✓ FerriScan requires no breath-hold and may therefore be used for paediatric patients
- ✓ Results are accurate, reliable and reproducible over time and between MRI centres and all major makes and models of scanner (GE, Siemens, Philips)
- ✓ There is no requirement for customers to purchase new software or hardware
- ✓ FerriScan is suitable for 1.5 Tesla MRI scanners
- ✓ FerriScan is charged on a per analysis basis - no expensive upfront licence costs

## **Professor Vijay Rao**

### **Senior Vice President – Enterprise Radiology and Imaging, Jefferson Healthcare and Past-President, Radiological Society of North America**

Professor Vijay Rao is a graduate of the All India Institute of Medical Sciences, India's premier medical school. After completing her radiology residency in 1978 at Thomas Jefferson University Hospital, she has remained on the faculty ever since. She served as Residency Program Director, Vice Chair for Education and Co-Director of Neuroradiology/ENT division. In 2002, she was named Chair of Jefferson's Department of Radiology. Upon her appointment, she became the first female chair of a clinical department in Jefferson's history. In 2016, she was named Senior Vice President of Enterprise Radiology at Jefferson Health.

Professor Rao is a recognized leader in Radiology worldwide. Her clinical expertise is in imaging of the head and neck. She is widely recognized in health services research in radiology. She has published over 230 peer-reviewed articles and given over 250 presentations at national and international radiology meetings including invited named lectures at universities and plenary lectures at national and international societies. She has held many editorial positions for several prestigious radiology journals.

Professor Rao has held many leadership roles in national radiology organizations. She is past President of the Radiological Society of North America, the American Society of Head and Neck Radiology, the Association of Program Directors in Radiology and the American Association of Women Radiologists. She currently serves as Chair –elect of the RSNA R&E Foundation Board. She has served on the Thomas Jefferson University Hospital System Board since 2012.

Professor Rao has received numerous awards for her contributions as an educator, a researcher and a leader in organized radiology nationally and internationally. In 2006, she received the Achievement Award of the Association of Program Directors for her outstanding contributions to radiology education nationally. In 2014, she received the Gold Medal award from the Association of University Radiologists, and she received the Marie Curie Award from the American Association for Women Radiologists. In Sept 2020, she was awarded the Gold Medal Award from the American Society of Head and Neck Radiology.

Her International awards include Honorary Membership in the Israel Radiological Society, the European Society of Radiology, the Indian Radiological and Imaging Association and the French Society of Radiology along with Medal of Honor. She also received the Gold Medal from the Asian Oceanian Society of Radiology for her outstanding contributions to international radiology.

# HEADLINE SPEAKERS

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## **Professor Evis Sala**

### **Professor of Oncological Imaging, University of Cambridge**

Professor Evis Sala is the Professor of Oncological Imaging at the University of Cambridge, UK and co-leads both the Advanced Cancer Imaging Programme and the Integrative Cancer Medicine Programme for the Cancer Research UK Cambridge Centre.

She leads the Radiogenomics and Quantitative Imaging Group in the Department of Radiology. Her current research focuses on integrated diagnostics, through the clinical development and validation of functional imaging biomarkers to rapidly evaluate treatment response using physiologic and metabolic tumour habitat imaging. Her research in the new field of “radio genomics” has focused on understanding the molecular basis of cancer by demonstrating the phenotypic patterns which occur as a result of multiple genetic alterations that interact with the tumour microenvironment to drive the disease in several tumours types. Her work integrates quantitative imaging methods for evaluation of spatial and temporal tumour heterogeneity with genomics, proteomics and metabolomics. She is also leading multiple research projects focusing on the applications of artificial intelligence methods for image reconstruction, segmentation, and data integration. In addition, she is also working on development and clinical translation of several novel PET tracers.

Professor Sala is active in many academic organizations. She is the Chair of Radiology Society of North America (RSNA) Oncologic Imaging Track, a member of Board of Trustees of the International Cancer Imaging Society (ICIS) and The European Society of Urogenital Radiology (ESUR). She is an Editorial Board member and Head of Oncology Section of European Radiology and Senior Consulting Editor for Radiology: Artificial Intelligence. In recognition for her contribution to education and research in oncological imaging, she was elected as a Fellow of ICIS in 2014, a Fellow of ISMRM in 2015, a fellow of ESUR in 2018.

# BIR ANNUAL CONGRESS 2020

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## Reviews from BIR Annual Congress 2019

“The event was well organised and venue was superb. The speakers were excellent who were successful in creating a great impact in mind of audience. The topics were relevant to day to day practice.”

“Good range of topics, well delivered, reinforced my knowledge, even where one already knew the facts it’s reassuring to have this confirmed and reinforced, also picked up some useful take-home points. Very pleasant and informative day.”

“Pleasant atmosphere; good learning environment.”

“The topics were very attractive and the different speakers very good. I particularly enjoyed the abdominal imaging and chest radiotherapy lectures.”

“This was yet again an excellent congress. With three so good streams it is difficult to choose between them.”



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