

## DRAGON conference: lessons learnt from COVID-19

1-2 June 2023 – Brussels, Belgium

### Thursday, 01 June 2023

#### Aims

Share the DRAGON consortium experience with clinical networks; Provide an overview of the best diagnosis/prediction models implemented for acute and long COVID-19; Outline the use of AI and machine learning to deliver a patient-centred decision support system for rapid precise diagnosis and prognosis; Discuss on the current pandemic preparedness

#### Target audience

DRAGON consortium members, healthcare professionals, general practitioners, clinicians, scientists, epidemiologists, data scientists, radiologists, public health representatives and patient organisations.

#### Conference chairs

Christopher Brightling - Institute for Lung Health (Leicester, United Kingdom)

Eva Polverino - Respiratory Disease Department, Hospital Vall D'Hebron (Barcelona, Spain)

Session 1 | 08:30–09:00 Central European Time (CET)

#### Welcome

**Chairs:** *Christopher Brightling (United Kingdom) – Eva Polverino (Spain)*

#### 08:30 Introduction and objectives of the meeting

*Wim Vos – Radiomics (Liège, Belgium)*

#### 08:40 Keynote Lecture | Disease X: The 100 Days Mission to End Pandemics

*Kate Kelland – Coalition for Epidemic Preparedness Innovations (London, United Kingdom)*

Session 2 | 09:00–12:00 Central European Time (CET)

#### Clinical networks and clinical trials

**Chair:** *Francesco Blasi - Respiratory Medicine Section, Università degli Studi di Milano (Milan, Italy)*

#### Panel: Clinical networks and clinical trials

#### 09:00 How to form a clinical network

**How clinical trials have been developed and approved on time  
Teamwork, agility, and patient empowerment**

*Brice van Eeckhout – Comunicare Solutions (Seraing, Belgium)*

*Herman Goossens – PREPARE and RECOVER (Antwerp, Belgium)*

*Julian Guiot – CHU Liège (Liège, Belgium)*

*Sara Tomassetti – Università degli Studi di Firenze – UniFI (Florence, Italy)*

*Philippe Lambin - Maastricht University (Maastricht, Netherlands)*  
*Surbhi Malhotra - ORCHESTRA (Antwerp, Belgium)*

**10:20 Break**

**10:50 Moderated discussion**

*DRAGON consortium panel*  
*European Lung Foundation (ELF) representative*

**12:00 Lunch Break**

Session 3 | 13:00–14:30 Central European Time (CET)

## Acute COVID - diagnostics and prediction

**Chairs:** *Christopher Brightling (United Kingdom) – Eva Polverino (Spain)*

**Panel:** **Acute COVID - diagnostics and prediction**

**13:00 Imaging strategies**

**Near patient tests (biomarkers)**  
**Prediction models**  
**How do we establish monitoring strategies**

*Mariaelena Occhipinti – Radiomics (Liège, Belgium)*  
*Guang Yang – Imperial College of London (London, United Kingdom)*  
*David Edge – IMI-KRONO (Kimbolton, United Kingdom)*  
*Ian Selby – University of Cambridge (Cambridge, United Kingdom)*  
*James Schofield – Top MD (Southampton, United Kingdom)*  
*Jean-Paul Charbonnier – Thirona BV (Nijmegen, Netherlands)*

**14:00 Moderated discussion**

*DRAGON consortium panel*  
*European Lung Foundation (ELF) representative*

Session 4 | 14:30–15:00 Central European Time (CET)

## Long COVID - diagnostics and prediction

**Chairs:** *Christopher Brightling (United Kingdom) – Eva Polverino (Spain)*

**Panel:** **Long COVID - diagnostics and prediction**

**14:30 Imaging strategies**

**Near patient tests (biomarkers)**  
**Prediction models**  
**How do we establish monitoring strategies**

*Nicola Sverzellati – Università di Parma*  
*Jean-Paul Charbonnier – Thirona BV (Nijmegen, Netherlands)*  
*Salman Siddiqui – Imperial College of London (London, United Kingdom)*

**14:50 Moderated discussion**

*DRAGON consortium panel*  
*European Lung Foundation (ELF) representative*

## 15:00 Break

Session 5 | 15:15–16:45 Central European Time (CET)

### AI - diagnostics and prediction

**Chairs:** *Christopher Brightling (United Kingdom) – Eva Polverino (Spain)*

**Panel:** AI - diagnostics and prediction

**15:15 DRAGON artificial intelligence**  
**Other prediction models**  
**Personalised monitoring in at-risk groups**  
**Consultation process**

*Guang Yang - Imperial College of London (London, United Kingdom)*

*Ian Selby - University of Cambridge (Cambridge, United Kingdom)*

*Jean-Paul Charbonnier – Thirona BV (Nijmegen, Netherlands)*

## 16:15 Moderated discussion

*DRAGON consortium panel*

*European Lung Foundation (ELF) representative*

Session 6 | 16:45–18:00 Central European Time (CET)

### Pandemic preparedness

**Chair:** *Anita Simonds - Royal Brompton Hospital (London, United Kingdom)*

## 16:45 Keynote Lecture | Pandemic preparedness

*Gail Carson - Global Outbreak Alert and Response Network (Oxford, United Kingdom)*

## 17:30 Discussion

*Kit Howard – Cdisc Europe Foundation (Brussels, Belgium)*

*James Schofield - Top MD (Southampton, United Kingdom)*

*Julian Hiscox - University of Liverpool (Liverpool, United Kingdom)*

*Herman Goossens - PREPARE and RECOVER (Antwerp, Belgium)*

*Scott Wagers - Biosci Consulting Bvba (Maasmechelen, Belgium)*

## 17:50 Summary and conclusions

*Christopher Brightling - Institute for Lung Health (Leicester, United Kingdom)*

*Eva Polverino - Respiratory Disease Department, Hospital Vall D'Hebron (Barcelona, Spain)*

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## Friday, 02 June 2023

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Session 1 | 08:30–08:45 Central European Time (CET)

### Welcome

**08:30 DRAGON: Questions and strategies**

*Christopher Brightling (Institute for Lung Health - Leicester, United Kingdom)*

*Eva Polverino (Respiratory Disease Department, Hospital Vall D'Hebron - Barcelona, Spain)*

Session 2 | 08:45–09:30 Central European Time (CET)

### Challenges of data collection and sharing

**Chairs:** *Christopher Brightling (United Kingdom) – Eva Polverino (Spain)*

#### Moderated discussion

**08:45 Data collection for AI model development**

**Data sharing vs. data protection**

**Standardized data structures**

*DRAGON consortium panel*

*European Lung Foundation (ELF) representative*

Session 3 | 09:30–10:15 Central European Time (CET)

### Huddle-by-table

**09:30 What are the scientific questions around clinical trials and biomarkers?**

*DRAGON consortium members with audience*

**10:15 Reporting**

**10:30 Break**

Session 4 | 11:00–11:45 Central European Time (CET)

### Huddle-by-table

**11:00 What are the public health priorities and strategies?**

*DRAGON consortium members with audience*

**11:45 Reporting**

**12:00 Wrap-up & Next steps**



innovative  
medicines  
initiative

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