

## ***ARISE Virtual Teaching Programme Lecture Recent Diagnostic Advances in Newborn Screening***

**When:** Wednesday 10<sup>th</sup> February, from 13.00 – 15.00 (UK time)

**Where:** GotoMeeting online platform

**Register via this link:**

<https://forms.office.com/Pages/ResponsePage.aspx?id=mzwpanUCxEi3pu0zrljfykaNIVi9k3FDpPf8wjagoDIURFJQSDhSREZaTUNLR1IyRFBIUk5CTkhJWC4u&wdLOR=c38ED3B74-B84A-45AB-A71F-7E1DA08FE37A>

This collaborative lecture will be delivered by experts, Professor Jacques Elion, Dr Wale Atoyebi and Mrs Nkechi Anyanwu, a SCD specialist nurse and community matron. Their knowledge will provide thought-provoking insights into two complementing topics. “Recent diagnostic advances in Newborn screening” and “Newborn screening in SCD – a review of current approaches across continents”. Participants will then be invited to ask questions in a live Q&A.

### **Recent diagnostic advances in Newborn screening of sickle cell disease**

The session will commence by exploring the recent diagnostic advances and recent and emerging trends for the detection and diagnosis of Sickle Cell Disease (SCD), in particular:

- **Mass spectrometry** which is an automated procedure that is highly sensitive, quantitative, accurate, and suited to high throughput.
- **Molecular techniques**, DNA- based technologies that come often as a complement of the classical protein (haemoglobin)-based techniques for complicated cases and use DNA extracted from the dried blood spot or from liquid blood to establish the precise genotypic diagnosis for the patient.
- **Point of care testing** diagnostic testing that is performed from a blood drop by appropriately trained non-laboratory staff at or near to the site of the patient with the result leading to the immediate identification of a SCD newborn or a potential rapid diagnosis and change in the care of older patients.

### **Newborn screening in SCD – a review of current approaches across continents**

Embark on a journey to some of the Caribbean islands, to Brazil, France and the UK to discover the latest approaches and techniques used in different parts of the world to diagnose SCD in infants and babies.

**Who the session is for:**

Primarily, Haematologists, Physicians, Laboratory Scientists, Laboratory Technicians, Nurses and Healthcare Administrators.



## Session Outcomes

- Increased foresight into the recent advances of diagnostic techniques used in the testing for babies and infants with SCD.
- Recognise the advantages and disadvantages of advanced diagnostic techniques.
- Developed awareness into newborn screening techniques that will shape future diagnosis and treatment of SCD patients.
- Insight into the different approaches and techniques adopted around the world to screen babies and infants for SCD.

## CPD/CME points

The session is accredited by the Royal College of Pathologists. Attendees who attend the session in full will be rewarded 2 CPD/CME points and receive a certificate of attendance.

