Titel cursus\*

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| Hands–on course morphology of congenital heart diseaseCommon Arterial Trunk (CAT)Ter gelegenheid afscheid Margot Bartelings |

Datum\*

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| 21 september 2018 |

Cursusinhoud\*

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| Common arterial trunk (CAT) is a relatively rare congenital heart malformation with an incidence of approximately 0.07 per 1000 live births (approximately 0.7% of congenital heart diseases). This low incidence as compared to other congenital malformations may underlie the fact that only few courses have been attributed specifically to CAT. Nevertheless, in dealing with patients with CAT a myriad of anatomical considerations are involved, including variations in truncal valve anatomy, coronary arteries, pulmonary arteries, and associated anomalies, that all have their impact on surgical interventions and (late) clinical outcome. This dedicated course aims to provide insight in the three dimensional morphology of CAT in the full spectrum from prenatal development to long term follow up. The extensive Leiden Collection of post-mortem specimens with congenital heart disease provides the possibility to study this cardiac malformation in hands-on sessions. A panel of cardiac surgeons, paediatric cardiologists, GUCH cardiologists, morphologists, embryologists and a geneticist will introduce the different aspects of CAT in multiple sessions (slide presentations as well as live-video presentations), after which participants will have the opportunity to study the malformation in post-mortem heart-lung-specimen (hands-on).The following aspects will be covered in the course: embryology, morphology, pre-and postnatal diagnosis, genetics, surgical treatment as well as late follow up of truncus arteriosus communis in multiple variations (valve morphology, coronary variations, associated anomalies).  |

Doelgroep(en)\*

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| Specialists and trainees in the field of cardiac surgery, pediatric cardiology, (congenital) cardiology and other fields dealing with cardiac defects (cardio-thoracic anaesthesia, cardiac pathology , prenatal medicine/gynaecology, radiology, pathologists) |

Leerdoelen\*

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| The participants will have more insight in the three-dimensional architecture of the malformation.The participants can describe the morphological features of the CAT and associated (cardiovascular) anomalies and can explain them on basis of developmental biology.The participants can indicate the value of current prenatal diagnostic and genetic techniques to diagnose the CAT.The particpants can indicate the course of the disease and the various treatment options. The participants can apply and discuss this knowledge on CAT during case presentations. |

**Cursuscommissieleden\***

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| **Titulatuur\*** | **Voorletters\*** | **Tussenv.** | **Voornaam** | **Achternaam\*** | **Specialisme\*** | **Instituut\*** |
| Dr. | R. |  | Regina | Bökenkamp | pediatric cardiologist | LUMC |
| Dr. | M.C. |  | Monique | Haak | gynaecologist | LUMC |
| Prof.dr. | M.G. |  | Mark | Hazekamp | cardiothoracic surgeon | LUMC/AMC |
| Dr. | M.R.M. |  | Monique | Jongbloed | congenital cardiologist/clinical anatomist/embryologist | LUMC |
| Prof.dr. | M.C. | de | Marco | Ruiter | clinical anatomist/embryologist | LUMC |

**Sprekers**

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| **Titulatuur\*** | **Voorletters\*** | **Tussenv.** | **Voornaam** | **Achternaam\*** | **Specialisme\*** | **Instituut\*** |
| Dr. | M.C. |  | Monique | Haak | gynaecologist | LUMC |
| Prof.dr. | N.A. |  | Nico | Blom | pediatric cardiologist  | LUMC |
| Prof.dr. | A.J.J.C. |  | Ad | Bogers | cardiothoracic surgeon  | ErasmusMC |
| Dr. | R. |  | Regina | Bökenkamp | pediatric cardiologist | LUMC |
| Prof.dr. | A.C. |  | Adriana | Gittenberger-de Groot | clinical anatomist/embryologist | LUMC |
| Dr. | M.C. |  | Monique | Haak | gynaecologist | LUMC |
| Prof.dr. | M.G. |  | Mark | Hazekamp | cardiothoracic surgeon | LUMC/AMC |
| Dr. | T. |  | Tessa | Homfray | clinical geneticist | St George's, University of London, UK |
| Dr. | M.R.M. |  | Monique | Jongbloed | congenital cardiologist/ clinical anatomist/embryologist | LUMC |
| Prof.dr. | M.C. | de | Marco | Ruiter | clinical anatomist/embryologist | LUMC |
| Dr. | I. |  | Inga | Voges | pediatric cardiologist  | Royal Brompton & Harefield NHS Foundation Trust, Imperial College London, UK |

**Programma**

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| **Time** | **Title** | **Presenter** |
| 8.30-9.00 | Reception and registration |  |
| 9.00-9.10 | Opening | Marco de Ruiter  |
| 9.10-10.30 | SESSION 1: Introduction CAT | Chairs:Adriana Gittenberger-de GrootNico Blom |
| 9.10-9.40 | CAT morphology | Regina Bokenkamp (slides)Monique Jongbloed (live-video) |
| 9.40-10.10 | CAT and associated anomalies | Regina Bokenkamp (slides)Margot Bartelings (live-video) |
| 10.10-10.30 | Embryology : Morphogenesis CAT | Marco de Ruiter |
| 10.30-11.00 | COFFEE BREAK |  |
| 11.00-11.30 | HANDS-ON SESSION 1 | All tutors |
| 11.40-12.30 | SESSION 2: Genetics and prenatal diagnosis | Chairs:… Monique Jongbloed |
| 11.40-12.05 | Genetics of CAT | Tessa Homfray to be invited |
| 12.05-12.25 | Fetal diagnosis | Monique Haak |
| 12.30-13.30 | LUNCH BREAK |  |
| 13.30-14.50 | SESSION 3: Clinic, diagnosis and treatment | ChairsInga Voges to be invitedAdriana Gittenberger-de Groot |
| 13.30-13.50 | CAT: Clinical aspects | Nico Blom to be invited |
| 13.50-14.05 | Surgery for CAT | Mark Hazekamp |
| 14.05—14.20 | CAT and coronary arteries | Ad Bogers to be invited |
| 14.20-14.35 | CAT: Truncal valve morphology and surgical consequences | Mark Hazekamp |
| 14.35-14.50 | CAT with aortic arch anomalies: and surgical treatment | Ad Bogers to be invited |
| 15.50-15.20 | TEA BREAK |  |
| 15.30-16.10 | HANDS-ON SESSION 2 | All tutors |
| 16.10-16.55 | SESSION 4: Late follow up | Chairs:Mark HazekampMarco de Ruiter |
| 16.10-16.35 | Late follow up: general overview | Inga Voges to be invited |
| 16.35-16.55 | Case presentations | Monique Jongbloed/other GUCH cardiologist: suggestion Margot: Barbara Mulder? |
| 16.55-17.30  | Closing remarks and tributary to Margot Bartelings | Margot Bartelings /Monique Jongbloed |
| 17.30 | Drinks |  |