astraia software for women’s health
obstetric and gynaecological database application

astraia software gmbh
astraia software is a modular database application specifically for obstetricians and gynaecologists. It has been developed with the help of the Fetal Medicine Foundation London and a team of internationally recognised specialists in gynaecology and antenatal diagnosis.

With more than 10 years experience, a dedicated team, and close working relationships with our customers as well as scientists and ultrasound manufacturers, astraia is always up-to-date on the latest scientific data. We offer a range of report formats to document examinations; all of them designed to meet the specific needs of both the examiner and the patient.

The database is flexible and can be adapted to our customers’ individual needs and country-specific legal requirements. Many data input screens are user-definable and can be individually configured.

We aim to secure and optimise your work flow by substantially reducing the time and cost spent on daily administrative processes, including correspondence and archiving.

astraia software has been translated into more than 20 languages and is available in several regional specifications.

astraia offers

- comprehensive administration of patient data
- clearly structured data input fields that help prompt questions during examinations
- standardised terminology
- intuitive navigation systems
- user-friendly interface
- flexibility and options for individual configurations
- customer-oriented service and support
- access to the most current scientific data
- cost and time efficiency
- full DICOM support
- connectivity to hospital information systems via HL7 and proprietary solutions
- automatic data and image transfer from ultrasound machines and laboratory equipment

- support for multi-centred clinical studies and large scale statistical surveys
- customisable clinic diary for booking and managing appointments
- easy-to-use graphical query builder
- efficient quality control tools
- solutions for single-, network- and internet use
- case summaries and automatic highlighting of significant examination results
- functions for creating and printing reports and letters
- graphically attractive illustrations for reports (graphics, images, measurements)
- possibilities for data transfer to or from GPs and other referring doctors

available languages

- English
- French
- German
- Dutch
- Italian
- Portuguese
- Spanish
- Danish
- Swedish
- Finnish
- Czech
- Greek
- Polish
- Russian
- Romanian
- Hungarian
- Bulgarian
- Ukrainian
- Serbian
- Albanian
- Chinese
- Slovakian
available products:

- astraia Obstetrics
- astraia Gynaecology
- astraia Fetal Echocardiography
- astraia Colposcopy
- astraia Breast Clinic

consistent medical terminology

evidence-based clinical workflow

platform independent technology
astraia Obstetrics

astraia Obstetrics is our main tool for the comprehensive capture and management of data arising from examinations and patient diagnosis. It includes the FMF first trimester risk calculator, which is available to FMF certified and registered practitioners.

The astraia team continually reviews the module and scans the most important industry publications and scientific studies for new developments in the field of obstetrics and gynaecology, which are then immediately incorporated into the programme.

With its clear menu navigation this module streamlines the processes of documenting and evaluating patient diagnoses. Based on your entries, the programme is able to make suggestions to further improve your work flow.

**astraia Obstetrics includes:**

- documentation of antenatal history and diagnostic findings
- complete ultrasound examination of fetus and maternal structures during pregnancy
- detailed fetal echocardiography (optional) including cardiac biometry and Doppler
- user-selectable graphs and graphical representation of measurement results
- all invasive and non-invasive diagnostic procedures
- complete 1st trimester risk assessment according to the Fetal Medicine Foundation London
- fetal and maternal Doppler screens
- fetal and maternal assessment
- risk assessment of prenatal delivery based on measurement of cervical length
- risk assessment of pre-eclampsia
- MRI of fetal structures
- placenta evaluation
- genetic counseling
- follow-up examinations
- family pedigree chart
- diagnosis, conclusions and outcome of pregnancy
astraia Fetal Echocardiography

Designed for experts in fetal echocardiography, this module can be chosen as part of astraia Obstetrics or as a separate entity. With its clear menu navigation it assists with your fetal diagnosis and provides an excellent tool for advanced training in ultrasound diagnostics of the fetal heart. Based on your data entries, the programme will recommend further ultrasound procedures and make suggestions for the Doppler examination and additional biometric measurements of the fetal heart. The comprehensive and detailed help files guide you through even the most complex measurement procedures. The results from these measurements can be displayed as a graphic chart.

astraia Fetal Echocardiography includes:

• detailed ultrasound of the fetal heart with prompts for examination, suspected diagnosis and a detailed fetal echocardiography assessment
• detailed cardiac biometry
• detailed Doppler examination of the fetal heart
• diagnosis

astraia Gynaecology

This module offers a clear step-by-step analysis of your patient’s medical history, of findings from examinations and laboratory results – all leading to a diagnostic outcome. Routine gynaecological procedures and ultrasound procedures can be documented and recorded for future reference. Patient data can be either entered manually or transferred directly from your ultrasound machine.

astraia Gynaecology includes:

• documentation of medical history and diagnostic findings
• comprehensive clinical examination
• documentation of cervical smear, endometrial biopsy, implant, cyst aspiration, IUCD insertion, infections, ectopic injection and ERCP
• full ultrasound investigation
• detailed assessment of early pregnancy
• risk assessment of malignancy for adnexal masses (Simple Rules, IOTA LRZ, RMI)
• conclusion: diagnosis, recommendations, generation of individually configured reports, letters, memos and printouts
• accounts
• outcome

astraia software gmbh
astraia Breast Clinic

This module offers you a comprehensive tool for a detailed breast exam. The clear, step-by-step menu navigation will assist you with your documentation and evaluation of these examinations.

As with all other astraia programmes, the data input options are all based on the latest up-to-date scientific publications in this field of medicine. The examining doctor has the option of attaching graphic data like sketches or drawings to emphasise the clinical diagnosis. The terminology used for this is consistently based on the BIRADS classification.

astraia Breast Clinic includes:

- medical history, including pedigree
- indication for examination
- clinical examination, including palpation (breasts and lymph nodes)
- mammography (breasts and lymph nodes)
- ultrasound examination (breasts and lymph nodes)
- MRM examination, including Göttinger-Score-System
- invasive procedures
- diagnosis (including drawing module to make sketch)
- outcome

individual printouts

astraia Colposcopy

This module provides you with a wide-ranging tool for all your colposcopic examinations. The clear, step-by-step menu navigation system enables you to document and evaluate these examinations even while they are taking place.

astraia Colposcopy includes:

- medical history
- referral details with prompts for examination and current symptoms
- examination
- graphical representation of findings
- outcome
ultrasound connectivity

astraia offers the following components to help manage and present images, DICOM worklists and measurement data transfer:

- astraia DICOM image server
- astraia image viewer
- astraia auto image import
- astraia worklist server
- measurement data transfer via serial cable (for non-DICOM compatible ultrasound machines)
- astraia measurement data server

Images

The DICOM 3 standard-compatible astraia DICOM image server receives images, image sequences (clips) and 3D/4D volumes from DICOM-compatible ultrasound machines, which the astraia image viewer then displays as thumbnails in an image bar on your screen. It gives you the option of displaying images separately, in multiples, or as short clips, and allows you to make in-picture measurements and annotate the images with your comments.

The astraia image viewer is fully DICOM standard compatible and easily linked to existing RIS/PACS systems. With standard image processing functions (i.e. contrast, zoom, brightness, etc.), images can be enhanced and effectively displayed on the screen.

The auto image import module is an efficient alternative solution specifically for some ultrasound machine models which are not DICOM compatible. It can be used in conjunction with the image viewer and is available as a single-user or network option.

The astraia worklist server module enables seamless integration of your ultrasound hardware into the clinical workflow, for example by transferring existing patient data (name, date of birth, ID number, height and weight) directly to the ultrasound machine.

Measurements

Biometric and Doppler data can be exported from your ultrasound machine to the examination files at the click of a button, using either the convenient astraia measurement data server or a direct connection to the astraia client software.
example configuration for a small hospital network

For a free trial version of our software please visit our website

www.astraia.com