



# Adam, Rouilly

Models and Simulators for Clinical Skills and Practice

## AR10A X-Ray Positioning Doll

- Life size human figure
- For training Radiographers in:
  - Positioning techniques
  - Patient handling
  - X-Ray machine use



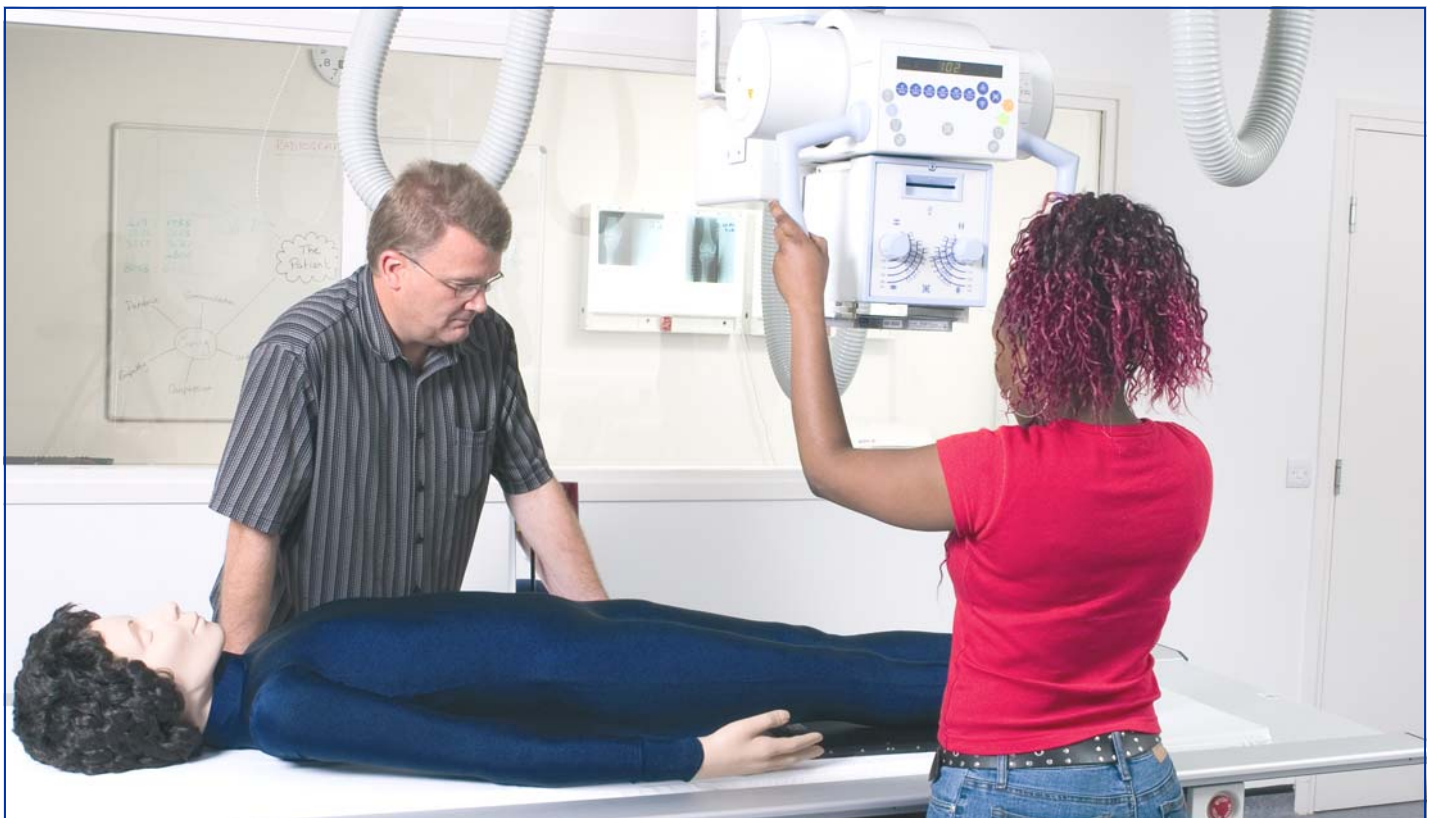
# AR10A Radiographic Positioning Doll

An invaluable teaching aid, in use in Schools and Colleges of Radiography throughout the world, for training students in X-Ray positioning techniques, patient handling and X-Ray machine use. Can be used without any discomfort or danger to patients.

## Design and Construction

- Life-size human figure containing a fully flexible articulated skeleton produced from a specially selected grade of plastic
- No metal parts are used in the articulation of the skeleton

- Anatomical landmarks easily identified
- The body covering has the combined properties of being able to simulate surface anatomy whilst remaining totally radiolucent
- Representations of the larynx, heart, lungs and kidneys are constructed from radiolucent material
- Weight – the Doll is light enough to be carried easily
- Joint flexibility – there is slight hyperflexion of the knees and elbows. The hip rotation is sufficient and generally the joints are realistic
- Flexible and durable articulation of the skeleton ensures a lengthy period of use

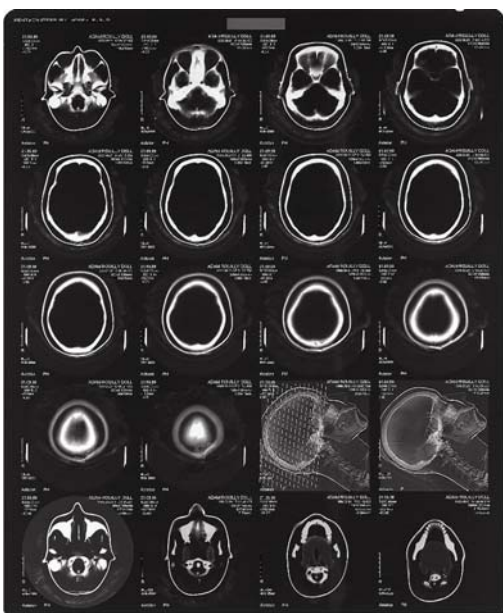


*Photographed at: Canterbury Christ Church University College - Medway Maritime, UK*

## Positioning

The Doll is best used in the recumbent positions as, although it is possible to use an upright bucky with supports, this makes the use of positioning blocks and immobilization devices more difficult.

- The Doll will lie naturally in the neutral position, prone or supine, without support.
- A wide selection of positioning aids must be at hand, e.g. foam blocks, wedges, sand bags and compression band. These are essential to maintain any position other than neutral, as the skin of the Doll has some resistance to overcome. This is, of course, an advantage in the teaching as it prevents the student cutting corners by omitting the use of these positioning aids.
- The Doll can be positioned for all standard projections with no more difficulty than a difficult patient might present.



## CT Scanning

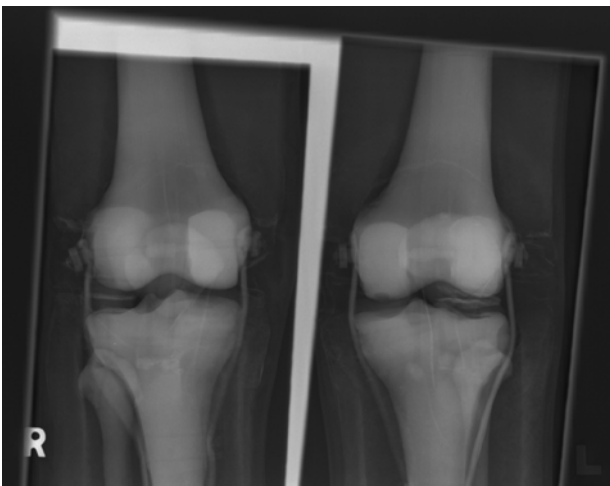
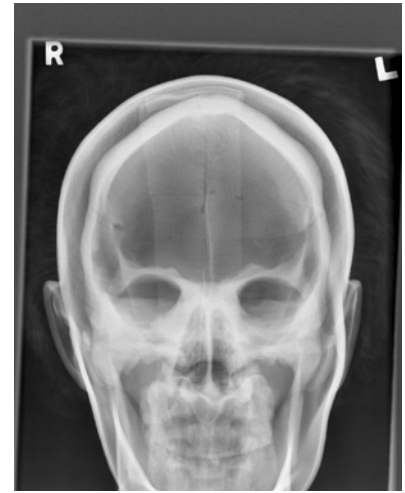
The Radiographic Positioning Doll has been positioned and imaged for whole body CT (Computed Tomography) investigation.

- Good images in terms of body outline and fundamental structure can be obtained. Certain areas of the skeletal structure e.g. thoracic vertebrae and the head of the femur, gave similar values to the typical patient.
- As the doll is very different from the human body in terms of X-ray attenuation it cannot be used for training in, or practising exposure control.



## Individual X-Rays for each Doll

- Each doll is individually X-rayed
- Customers can be reassured that there are no metal parts in the doll by referring to the set of digital X-Rays supplied with the doll.
- The images below were taken using:
  - Medium frequency generator; no grid; fine focus;  
100 cm S.I.D Fuji CR system



### AR10A Radiographic Positioning Doll Renewal Service

- Our Customer Service Department will be happy to advise on the renewal services we offer to considerably extend the life of your existing doll