



# LIFECAST

· BODY SIMULATION ·

## THE WORLD'S MOST REALISTIC TEACHING TOOLS

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[www.lifecastbodysim.com](http://www.lifecastbodysim.com)



*Elstree Film Studios*

Founded in 2017 at the world famous Elstree Studios, home of the George Lucas Studio where the original Star Wars film was created, Lifecast Body Simulation Ltd is transforming medical education by producing Medical Education Manikins with unparalleled realism.

Our Creative Director John Schoonraad, whose movie credits include Gladiator & Saving Private Ryan, leads a team of special effects artists, prosthetic experts and 3D scanning techs in creating manikins that 'break the mould' by invoking levels of emotional responses and student engagement never before seen.

Together with Dave Halliwell and Rob Clark, Co-Founders of Lifecast Body Simulation Ltd. and former Heads of Education in the Pre-Hospital Emergency Care arena, the team have sought to address bias in Medical Education and Simulation and today produce manikins from premature babies through to senior adults in a range of ethnicities that reflect the real world.

The company seeks to enable educators and their students to make memories, protect learners and ultimately, improve the standard of care given to patients.



*Sarasota Florida*

In 2021, in collaboration with Echo Healthcare, we opened a new state of the art manufacturing facility in Sarasota, Florida to help support our global growth and we have a growing network of dedicated distribution partners currently covering over 50 countries worldwide.

***The company continues in its' mission to enable educators and their students to make memories, protect learners and ultimately, to improve the standard of care given to patients.***



*Vivien Bridson*

### About Vivien

Our 82 year old lady manikin is a great example of our art and a copy of the amazing Vivien Bridson, an actor (starring in Star Wars VIII The Last Jedi), dancer and trained Psychologist, who lives in London.

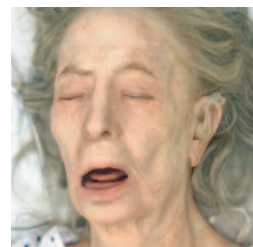
'Lifecasting' of Vivien took place in the traditional way at Elstree Studios with alginate and plaster and over the course of an hour, our team moulded her head and body.

We now have hundreds of 'Viviens' around the world, being used for education in areas such as Manual Handling, Bereavement, Falls Awareness, as well as the more traditional Advanced Life support.

### Clinical Area Applications

When we started our journey, based on most of our backgrounds, we focussed primarily on Advanced Life Support environments and while this remains a strong part of our business, we have been amazed to see the growth in other areas. Examples as follows:

- ALS / Resuscitation
- Nursing Care – Elderly Patients
- Palliative Care & Bereavement
- Oncology
- Water Rescue



*Vivien*



*Pete*



*Water Rescue*



# LIFECAST BABIES

Nothing stirs the emotions like the look of a newborn Baby and training healthcare professionals to respond effectively to babies of varying gestational age, requiring urgent care, remains a significant challenge.

Lifecast has worked with leading experts in Neonatology to create the widest and most realistic range of Pre-term and Term babies available today.

With features that include; anatomically accurate airways offering stepwise airway management up to Endo-Tracheal Intubation and Mechanical Ventilation, UVC placement with flashback and Intraosseus access, Lifecast Babies offer an unrivalled opportunity to help caregivers prepare for these most vulnerable and challenging of patients.



Baby range

# LIFECAST BABIES

## The Lifecast Baby range:

- Miscarriage Education Manikins, 8 week & 18 week gestation
- Micro-Premie Baby: 22-23 weeks gestation, 24cm, 500grams
- Pre-Term Baby: 28-29 week gestation, 36cm, 980grams
- Term Baby: 36+ week gestation, 38-40cm, 2.4Kg

Our team is able to add hand punched hair and varying paint effects to reflect differing levels of wellness to enhance the realism even further.

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features.*



Well' and 'Sick' looking' Pre-Term Baby



## LIFECAST TODDLER, TODDLER TORSO & CHILD

Our Lifecast ALS Children Manikin Range has been created to reflect the many and varied challenges children of different ages represent, with each being the correct average height and weight for their respective ages.

The combination of a normal weight and a natural 'floppiness' creates amazing realism when handling each child, with this better reflecting the real life challenges associated with many emergency procedures such as choking.

The Lifecast Water Rescue Toddler adds a new dimension in drowning related resuscitation scenarios, enabling fluid and 'bubbling' to be expelled from the mouth during the management of the child's airway. Adding colour to the water in the lung and layering bruising to the Toddler's skin also enables very challenging chest trauma related scenarios to be performed.



## LIFECAST TODDLER, TODDLER TORSO & CHILD

As with all Lifecast manikins, 'true to life' ALS Airways come as standard with each Child and options include a range of ethnicities and Intraosseus access.

### The Lifecast Range of Children:

- Infant: 3-4 month old, 61cm, 6Kg
- Toddler: 3 year old, 80cm, 14Kg
- Water Rescue Toddler: 3 year old, 80cm, 14Kg
- Toddler Torso: 3 year old
- Child: 8 years old, 132cm, 24Kg

Our team is able to add hand punched hair and varying paint effects to reflect differing levels of wellness to enhance the realism even further.

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features.*



## LIFECAST CHILD WHO HAS DOWN SYNDROME

Lifecast Body Simulation, a leader in realistic training manikins, announces the release of the world's first Child who has Down Syndrome training manikin. This realistic manikin was formed from a real-life 3D body scan of a seven (7) year old girl who has Down syndrome named Gwen and will be available to healthcare education facilities around the world to facilitate specialty and inclusive training in managing Down syndrome.

Down syndrome (also called Trisomy 21) is a genetic disorder caused when abnormal cell division results in extra genetic material from chromosome 21. While varied amongst patients, a few common physical traits of some children who have Down syndrome are low muscle tone, a difficult airway for intubation, smaller stature, gapping in the toes, almond-shaped eyes, a single deep crease across the center of the palm, smaller hands and feet – all of which are accurately represented in the Gwen training manikin.

Gwen was created by Lifecast Body Simulation and the University of Greenwich in London who also received support from the Down Syndrome Association. Gwen and her family are truly supporting such a worthy cause in creating awareness of Down syndrome and giving healthcare providers an accurate means of training while continuing to support diversity and inclusion in simulation-based education and training.

*"Gwen is the world's first truly inclusive manikin. Our goal is to make manikins that look like real people. We worked with the University of Greenwich in the UK to create this manikin lifecast and 3D scan of Gwen, a 7 year-old girl who has Down Syndrome who lives in the UK with her dad, mum and brother."* says David Halliwell, Founding Director of Lifecast Body Simulation Ltd.



## LIFECAST CHILD WHO HAS DOWN SYNDROME

### Lifecast child who has Down Syndrome - Key features:

- Difficult intubation (smaller mouth opening)
- Single Transverse Palmar Crease
- Gapping in toes
- Low muscle tone
- Smaller stature
- Almond-shaped eyes
- Smaller hands and feet
- Intraosseous access
- Premium padded carry bag with wheels





## LIFECAST ADULT MALE, MALE TORSO & FEMALE

Created from real people using the 'life-casting' and 3D scanning processes developed at our Elstree Studios base, Lifecast Adults are highly realistic and reflect the artistry inherent to our manufacturing teams in the UK and US.

Our Adults feature lifelike details including the replication of veins and underlying structures, hair and precise anatomical airways enabling ALS airway management.

Available in a wide range of ethnicities and created with usable weight and average adult heights, Lifecast Adults encourage more natural handling, bringing a new level of realism to medical training and demonstrate our belief in building simulation training tools that create emotional attachment and engagement.



## LIFECAST ADULT MALE, MALE TORSO & FEMALE

As none of our manikins are 'tethered' to any electrical power requirements, they are also ideal for In-Situ simulation sessions which in themselves, provide an effective and added realism extension to lab based training.

### The Lifecast Adult Range:

- Adult Male: Mid 40s Age, 37Kg
- Adult Female: Late 20s / early 30s: 30Kg

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features.*



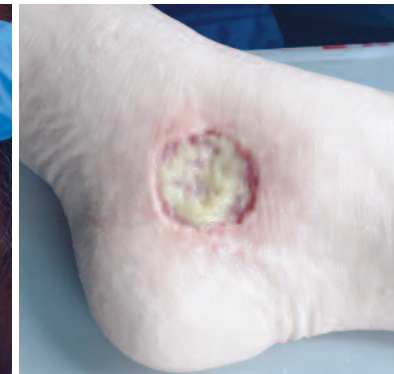


# LIFECAST ELDERLY ADULTS

As you will have read on the introduction pages, we have amazing real life stories behind our Adult Manikins and our Vivien & Pete Elderly Adult Manikins are fantastic examples of this endeavour to create emotional engagement in Medical Education.

We have created skin textures and paint finishes that include age spots and other natural skin appearance features that help stimulate natural responses during simulated scenario based training.

The ability to partially insert a urinary catheter to 'visually' simulate a catheterised patient and the option of a Bluetooth Speaker, all adds to the effect. Bespoke skin conditions and wounds are also available on request.



# LIFECAST ELDERLY ADULTS

Many customers also utilise physiological monitoring simulators (e.g. iSimulate) and moulage (e.g. MDTs Simology range) to add further layers of reality.

## The Lifecast Elderly Adult Range:

- Adult Elderly Male: Early 80s Age, 30Kg
- Adult Elderly Female: Early 80s Age, 30Kg

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features.*



## LIFECAST ONCOLOGY MANIKIN

Developed in conjunction with the folks at Oncomedical in Switzerland and the support of our distribution partners, Life Support Distribution, the Lifecast Oncology Manikin represents a major step forward in teaching drug delivery and blood sampling in Oncology patients.

This unique manikin enables up to 4 port catheters and/or PIC lines to be built into the manikin construction, allowing for simulated medication and blood to flow through the manikin body. Port catheter insertion site scars are also visible.

The extreme high levels of realism possessed by all Lifecast Manikins provides unrivalled student engagement while learning how to safely perform port catheter drug delivery and sampling.

The ability to partially insert a urinary catheter and the option of a Bluetooth Speaker, all adds to the effect.

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features..*

## LIFECAST ADVANCED CPR/ AIRWAY MANAGEMENT ADULT TORSO

Combining a new advanced polymer chest with our ultimate reality airway, the new Lifecast Adult Torso offers advanced functionality and anatomical accuracy in CPR and Airway Management Training.

Our new polymer chest provides unrivalled chest compression feel including natural recoil times indicative of real people.

The sealed lung system allows for realistic manual and mechanical ventilation and enables effective use of the new breed of Ventilation Feedback Devices (including the EOLifeX from Archeon Medical)

The Lifecast Adult Torso also works really well with the iSimulate physiological monitoring simulator to create highly realistic and practical lab based or In-Situ scenarios.

*Please refer to the Lifecast Manikin Features Chart for details of standard and optional features.*

Wanda Scheiwiller & Christian Rossner from Oncomedical with their new Lifecast Oncology Manikin





Lifecast Manikin Standard & Optional Features	ALS Airway Nasal & Oral	CPR	IO Tibia	IO Humeral Head	Decompression Needle Placement	Urinary Catheter Insertion	Built In Bluetooth Speaker	Chest Drain Placement	Water Rescue / Drowning Compatible	Port Catheters / PICC Line	Canulateable Umbilical Cord	Hand Punched Head Hair	Head Wig with Hand Punched Hair Edges	Body Hair - Public / Pubic & Armpit	Skin Conditions & Wound Effects	Gender Options	Choice of Ethnicities
Adult Male (ALSM-001)	●	●	●	●	●	Partial	○	N/A	N/A	N/A	N/A	N/A	○	●	○	N/A	N/C
Adult Female (ALSF-001)	●	●	●	●	●	Partial	○	N/A	N/A	N/A	N/A	N/A	●	●	○	N/A	N/C
Elderly Male (ALSEM-001)	●	●	●	●	●	Partial	○	N/A	N/A	N/A	N/A	N/A	N/A	●	○	N/A	N/C
Elderly Female (ALSEF-001)	●	●	●	●	●	Partial	○	N/A	N/A	N/A	N/A	N/A	●	●	○	N/A	N/C
Adult Male Torso (ALSMT-001)	●	●	N/A	N/A	N/A	N/A	○	N/A	N/A	N/A	N/A	N/A	○	N/A	○	N/A	N/C
Oncology Female (ALSFO-001)	●	N/A	●	●	N/A	Partial	○	N/A	N/A	●	N/A	○	N/A	●	○	N/A	N/C
Child (ALSC-001)	●	●	○	N/A	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	N/A	○	N/C	N/C
Child who has Down Syndrome ALSC-DS-001	●	●	●	N/A	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	N/A	○	N/C	N/C
Toddler (ALST-001)	●	●	○	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	N/A	○	N/C	N/C
Toddler Torso (ALSTT-001)	●	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	N/A	○	N/A	N/C
Water Rescue Toddler (ALST-001-WR)	●	●	○	N/A	N/A	N/A	N/A	N/A	●	N/A	N/A	N/A	●	N/A	○	N/C	N/C
Infant (ALSI-001)	●	●	○	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	○	N/A	N/A	○	N/C	N/C
Term Baby (ALSB-001)	●	●	○	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	○	N/A	N/A	○	N/C	N/C
Term DDH Baby (ALSB-001-HD)	●	●	○	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	○	N/A	N/A	○	N/C	N/C
Pre-term Baby (ALSP-001)	●	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	○	N/A	N/A	○	N/C	N/C
Micro-Preemie (ALSMP-001)	●	●	N/A	N/A	N/A	N/A	N/A	●	N/A	N/A	●	N/A	N/A	N/A	N/A	N/A	N/A

● Standard Features   ○ Optional Features   N/C No Cost Option   N/A Not Available



# PHC NORDIC

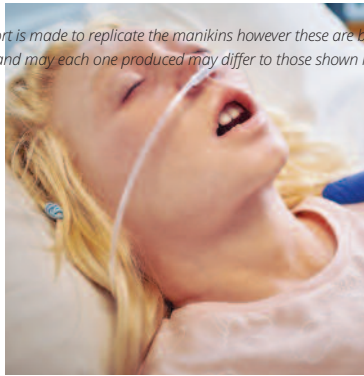
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*Every effort is made to replicate the manikins however these are best approximation and may each one produced may differ to those shown here.*



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