

Produkt + Projekt



Wolfgang Moll

Age simulation suit GERT

GERT creates the experience old age



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Age simulation suit GERT

GERonTologic simulator GERT

The age simulation suit **GERT** offers the opportunity to experience the impairments of older persons even for younger people.

The age-related impairments are:

- opacity of the eye lens
- narrowing of the visual field
- high-frequency hearing loss
- head mobility restrictions
- joint stiffness
- loss of strength
- reduced grip ability
- reduced coordination skills



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

GERT for only € 1390,- / £ 1250,-

complete as pictured, plus shipping and VAT if applicable

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The age simulation suit **GERT** consists of a set of separate components. By their interaction an effect very similar to the impairments of the sensomotoric skills in old age can be achieved.

Especially the age-related walk and the changed grip ability are simulated very close to reality by the age simulation suit **GERT**.

But also the increased mental load and the soaring movement uncertainty will be understandable when wearing the age simulation suit **GERT**.

Those who tried the age simulation suit **GERT** will have a better understanding of elderly persons' behaviour.

The age simulation suit **GERT** is therefore very applicable in the apprenticeship and advanced training of experts but also in the development of products and services for elderly people.



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Effectiveness of age simulation

At the Julius-Maximilian University of Würzburg (Dr. med. S.A. Filz, Dr. med. W. Swoboda et al.) the effectiveness of age simulation in the education of medical students has been evaluated.

In doing so, the students have passed a practical course using an age simulation suit. The subsequent interview of the participants showed following results:

Ability to empathize the life in old age very well after the practical course: **83%** of the participants.

Ability to put oneself in the situation of an elderly person after the practical course: **90%** of the participants.

Comprehensibility of the physical condition of an elderly person after the practical course: **95%** of the participants.



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Scope of delivery and components of GERT

GERT consists of a set of 11 matched components:

- 1 special goggles
- 1 ear defender
- 100 ear plugs
- 1 cervical collar
- 1 weight vest (10 kg)
- 1 pair of elbow wraps
- 1 pair of wrist weight cuffs (2 x 1,5 kg)
- 3 pairs of special gloves (in 3 sizes)
- 100 one way gloves
- 1 pair of knee wraps
- 1 pair of ankle weight cuffs (2 x 2,3 kg)



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Age simulation head

The special goggles cause:

- changed colour perception
- grainy blurring
- glare sensitivity
- narrowing of the visual field

The hearing protection causes:

- high-frequency hearing loss

The cervical collar causes:

- head mobility restrictions

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Age simulation torso

The weight vest causes:

- bending of the spine
- tilting of the pelvis
- postural weakness
- mobility restrictions
- sinking strength
- higher physical load
- decreasing sense of balance



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Age simulation arms

The elbow wraps cause:

- restriction of joint mobility

The weight cuffs cause:

- sinking strength
- changed coordination

The special gloves cause:

- restricted hand mobility
- restricted grip ability
- reduced tactile perception



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Age simulation legs

The knee wraps cause:

- restriction of joint mobility

The weight cuffs cause:

- sinking strength
- changed coordination
- unsteady, shuffling gait



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How to buy the age simulation suit GERT

The age simulation suit **GERT** can easily be purchased by public authorities, institutions and companies in the European Union. **GERT** is not available for private persons.

Simply send an email or fax with your order, the invoice address and if different the delivery address. You may download the order form from the website to easily fill in all necessary information.

If you have a valid VAT ID, we will issue a tax-free invoice. We will ship your order as soon as possible and send the invoice. Usually the delivery will take place within 2 weeks.

The purchase is without any risk. If you are not satisfied, return the delivery within 14 days after receiving it and we will cancel the invoice.

Customers outside the EU will find additional information on our website.



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References for the age simulation suit GERT

Network Aging Research NAR and Institute of Gerontology IfG,
Heidelberg University (Germany)

De Montfort University, Leicester (UK)

Blackpool & The Fylde College, Blackpool (UK)

Charité University Hospital, Berlin (Germany)

Centre Hospitalier de la Région d'Annecy (France)

Wexham Park Hospital, Berkshire (UK)

University Hospital of North Tees (UK)

Airbus Operations GmbH, Hamburg (Germany)

and thousands more worldwide ...



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Accessories and more simulators





Additional cervical collar with changing covers

A cervical collar is already included in the scope of delivery of the age simulation suit **GERT**. As an accessory we offer a second additional cervical collar with 20 changing covers.

While most components of the age simulation suit are worn over the clothing, the cervical collar is usually worn directly on the skin. Therefore, the easily washable changing covers are recommended for hygienic reasons.

We offer the changing covers with an additional cervical collar as it is advantageous to be able to change the cover while the second cervical collar is in use. So the cervical collar is immediately ready for use when a new test person wants to put on the age simulation suit. For use in larger groups or events, it may be advisable to have several cervical collars and a corresponding number of changing covers available.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Additional cervical collar and 20 changing covers for only € 140,- / £ 125,-
as pictured, plus shipping and VAT if applicable

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Suitcase for the age simulation suit GERT

For the storage and the transport of the age simulation suit **GERT** we offer a very stable and very practical suitcase.

We deliberately offer a suitcase made of robust textile fabric. This is extremely hard-wearing. It does not scratch like plastic suitcases and does not dent like aluminium suitcases. And above all, it does not damage other objects, such as furniture, because it has no hard edges or corners. It is also lighter than an aluminium suitcase and very easy to carry thanks to its wheels and very sturdy handles.

The suitcase is dimensioned so that most of the accessories can be stored in addition to **GERT**. Thanks to the internal layout of the suitcase with separate compartments and straps, all parts are very securely stowed away. The suitcase is a highly recommended accessory for the age simulation suit **GERT**.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Suitcase for only € 90,- / £ 80,-

as pictured, plus shipping and VAT if applicable

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Simulation of an unsteady gait

To simulate the often in old age occurring unsteady gait there are special overshoes available as an accessory for the age simulation suit **GERT**.

The overshoes are easily applied over the shoes of the participant. The additional soft sole imparts a spongy feeling and reduces the ability to perceive the contact with the floor.

Hence, the uncertainty of walking that elderly people often feel is more comprehensible. In combination with the components of **GERT** a much better impression arises in this way.

The application takes only a few seconds.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Overshoes for only € 190,- / £ 170,-

set of 2 pairs in 2 sizes, plus shipping and VAT if applicable

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Restriction of knee mobility

Knee wraps to restrict the mobility of the knees are already included in the scope of delivery of the age simulation suit **GERT**. These wraps simulate the restriction accompanying healthy ageing.

The knee joints of elderly people are very often affected by pathological changes causing an enhanced restriction of mobility.

Therefore, additional knee wraps are available as an accessory. Due to their reinforced construction with spring steel elements, they are able to simulate even enhanced restrictions, as in the case of knee osteoarthritis.

They are easy to apply and their effect is scalable.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Knee wraps for only € 160,- / £ 145,-

1 pair as pictured, plus shipping and VAT if applicable

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Simulating knee pain in an easy manner

The knee joints are very often affected by pathological changes that cause severe restriction of mobility and, above all, knee pain. These include osteoarthritis, arthritis and also injury-related causes of knee pain.

In order to be able to understand these knee complaints, we offer the knee pain simulator. Due to its in-built spring steel elements, this simulates greater restriction of mobility and, in addition, knee pain is simulated in a harmless but very effective way by means of internal stimulus elements that act on the skin's surface.

With the knee pain simulator, it thus also becomes possible to comprehend the subjective consequences of knee pain, such as increased pain during movement and the resulting reluctance to move. It is ideal for use in sensitisation and prevention.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Knee pain simulator for only € 200,- / £ 180,-

1 pair as pictured, plus shipping and VAT if applicable

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Simulating a hunchback

A hunchback (medical name: kyphosis or hyperkyphosis) is a common condition characterised by an over-curvature of the thoracic spine and causes considerable discomfort.

One of the causes of a hunchback is osteoporosis, but other diseases, for example ankylosing spondylitis, also cause a hunchback. Weakened back musculature due to a lack of exercise and constant bad posture can also lead to a hunchback. Developmental disorders during the growth phase are also a possible cause.

With the kyphosis simulator, it is possible to experience very effectively how a hunchback has a negative effect on the quality of life of those affected. It can be used together with the age simulation suit **GERT**, but also separately.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Kyphosis simulator for only € 190,- / £ 170,-
complete as pictured, plus shipping and VAT if applicable

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Simulating shortness of breath in COPD

COPD (Chronic Obstructive Pulmonary Disease) is a severe lung disease with chronic narrowed respiratory tracts, which is mainly caused by smoking. Since the COPD is not curable, it is one of the most common causes of death in the world.

Apart from cough and sputum, shortness of breath is one of the main symptoms of COPD, especially under exertion. The COPD simulator simulates the shortness of breath, as this is not only sporadic, like cough, but permanent and so particularly stressful.

The COPD simulator consists of an adjustable rib bandage for the restriction of the lung volume and an easily adjustable nose clip to reduce the air flow during inhalation and exhalation.

The application is quite easy and requires only a few moments.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

COPD simulator for only € 170,- / £ 155,-

1 rib bandage and 1 nose clip, plus shipping and VAT if applicable



Simulating the senile tremor

The tremor simulator, a simulator for the mostly in old age increasingly occurring tremor, is available as an accessory for the age simulation suit **GERT**.

Using special gloves and a specific steplessly variable control unit the tremor is absolute realistically simulated by EMS impulses.

The use is very simple because the tremor simulator will be delivered completely prepared and perfectly adjusted.

After the gloves have been put on, the control unit has to be switched on and controlled with only one dial according to the desired tremor intensity.

To feel the senile tremor is a very valuable experience.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Tremor simulator for only € 160,- / £ 145,-

2 pairs of gloves in 2 sizes and 1 control unit, plus shipping and VAT if applicable

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Simulation of tinnitus

Instead of a hardware-based tinnitus simulator, we offer 8 tinnitus sounds as MP3 files for free download. You can play these with your own device, for example with an MP3 player or a smartphone in combination with headphones. Hearing protection headphones that also simulate the age-related high-frequency hearing loss would be ideal. Alternatively, in-ear headphones can be used in combination with the ear defender of the age simulation suit **GERT**.

The illustration shows an example of a combination of hearing protection headphones and MP3 player, which are not included in the scope of delivery. You can purchase these or similar products on the market.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

8 tinnitus sounds as MP3 files

free download as part of an order



Simulation of eye diseases

There are special simulation glasses for the age simulation suit **GERT**, simulating typical age-related eye diseases.

The set of glasses consists of 6 simulation glasses and will be delivered in a storage box.

The simulated eye diseases are:

- Macular degeneration
- Cataract
- Glaucoma
- Unilateral retinal detachment
- Diabetic retinopathy
- Retinitis pigmentosa



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Simulation glasses for only € 230,- / £ 210,-
box with 6 glasses as pictured, plus shipping and VAT if applicable

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Hemiparesis simulator

The hemiparesis simulator simulates an incomplete unilateral paralysis, e.g. caused by a stroke.

Stroke is the leading cause of moderate and severe disability. The simulation creates real understanding for those concerned and supports stroke prevention.

The hemiparesis simulator is independent from size and side of the body and can be used both alone and in combination with the age simulation suit **GERT**.

The simulated effects are:

- paralysis of one leg
- paralysis of one arm
- unilateral vision impairment
- unilateral hearing impairment
- speech and swallow disorders



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Hemiparesis simulator for only € 390,- / £ 350,-
complete as pictured on the left, plus shipping and VAT if applicable

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Simulation of back pain

By using the back pain simulator, people who are not yet suffering from back pain can be motivated for preventive measures and a back-friendly behaviour.

In addition, the back pain simulator can be used to verify working conditions.

But also the empathy for people who suffer from back pain can be enhanced.

The back pain simulator does not cause real pain, but simulates this with a light stimulus.

The use of the back pain simulator is very easy. It is put on like a backpack. Two simulators in two sizes will be delivered.



You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

Back pain simulator for only € 490,- / £ 440,-
set of 2 simulators in 2 sizes, plus shipping and VAT if applicable

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You will find all information about the age simulation suit **GERT** including price list at: www.age-simulation-suit.com

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