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*Jsc Bd
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This book
addresses the
need for
comprehensive
review of

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therapeutic options that are known to be efficacious in the management of cutaneous diseases in children. It summarizes evidence-based literature on clinical responses among pediatric

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patients, including
age-appropriate
management
strategies.

Included is review
of the

extraordinary
developments in
understanding of
the genetics and
pathogenesis of
many cutaneous

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disorders during
the past decade,
the novel
therapeutic options
and repurposing of
old drugs, and the
management of
some of the most
challenging skin
disorders. Therapy
in Pediatric
Dermatology:

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Management of
Pediatric Skin
Disease is a
succinct, user-
friendly, and up-to-
date therapeutic
dermatologic
textbook for
physicians who
care for children
with skin disorders.
Each skin

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condition is
discussed with
investigative and
treatment
recommendations
in mind and
provided based on
extensive review of
the literature. This
book will provide
unbiased, yet
concise,

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information that is valuable to practitioners who manage pediatric patients in their practices.

Accessible à tous les passionnés de tennis, voici une synthèse de l'ensemble des connaissances

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scientifiques en
lien avec la
performance du
joueur de tennis.
Un ouvrage qui
conjugue th éorie
et applications
pratiques sur le
terrain. Cet
ouvrage propose
une synth èse
compl ète de

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l'ensemble des
connaissances
scientifiques,
techniques et
professionnelles
actuelles
concernant les
diff é rentes
dimensions
(physiologiques,
biom é caniques,
m é dicales,

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tactiques, perceptives/cognitives, psychologiques, matérielles) de la performance du joueur de tennis.

Ces connaissances débouchent sur des applications pratiques et des exemples

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d'exercices
concrets et
accessibles
directement
exploitables dans
le milieu de
l'entraî nement
pour perfectionner
les joueurs de
tennis.

This successful
book, now in a

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revised and
updated second
edition, reviews all
aspects of anterior
cruciate ligament
(ACL) injuries in
female athletes,
with the focus on
complete,
noncontact ACL
injuries. The
opening section

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discusses anatomy and biomechanics and explains the short- and long-term impacts of complete ACL ruptures, including long-term muscle dysfunction and joint arthritis. Risk factors and possible causes of

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the higher
noncontact ACL
injury rates in
female athletes
compared with
male athletes are
then discussed in
depth. Detailed
attention is
devoted to
neuromuscular
training programs

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and their

effectiveness in
reducing
noncontact ACL
injury rates in
female athletes, as
well as to sports-
specific ACL injury
prevention and
conditioning
programs of
proven value.

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Rehabilitation
programs after
ACL injury and
reconstruction that
reduce the risk of
a future injury are
explored, and the
concluding section
looks at worldwide
implementation of
neuromuscular
ACL injury

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prevention training
and future
research
directions. The
book will be of
value to orthopedic
surgeons, physical
therapists, athletic
trainers, sports
medicine primary
care physicians,
and strength and

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conditioning

specialists.

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Restriction:

Rehabilitation to

Performance

Therapy in

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Promote Muscle

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Mass and Function
Across Health
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and Relative Age
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*comprehensive
look at physical
therapy science
and practice,
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resource for both
students and
practitioners alike.
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Therapy
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Content is*

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*thoroughly revised
to keep you up to
date on the latest
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therapy protocols
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are added to this
edition to help you
learn how to better
manage common
orthopedic,*

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*cardiopulmonary,
and neurologic
conditions;
become familiar
with functional
outcomes and
assessments; and
better understand
the psychosocial
aspects of aging.
In all, you can rely
on Guccione's*

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*Geriatric Physical
Therapy to help
you effectively care
for today's aging
patient population.
Comprehensive
coverage of
geriatric physical
therapy prepares
students and
clinicians to
provide thoughtful,*

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*evidence-based
care for aging
patients.*

*Combination of
foundational
knowledge and
clinically relevant
information
provides a
meaningful
background in how
to effectively*

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manage geriatric disorders Updated information reflects the most recent and relevant information on the Geriatric Clinical Specialty Exam. Standard APTA terminology prepares students for terms they will

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keeps students up*

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latest geriatric
physical therapy
protocols and
conditions. NEW!
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located at the end
of each chapter
point students
toward credible
external sources
for further*

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information. NEW!

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chapters guide
students in
managing common
conditions in
orthopedics,
cardiopulmonary,
and neurology.
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outcomes and*

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assessment lists relevant scores for the most frequently used tests. NEW! Chapter on psychosocial aspects of aging provides a well-rounded view of the social and mental conditions commonly affecting

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optimize treatment.
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included with print
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students to access
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*figures, and
references from
the book on a
variety of devices.
The Frontiers
Research Topic
entitled
"Neuromuscular
Training and
Adaptations in
Youth Athletes"
contains one*

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*editorial and 22
articles in the form
of original work,
narrative and
systematic reviews
and meta-
analyses. From a
performance and
health-related
standpoint,
neuromuscular
training stimulates*

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*young athletes'
physical
development and it
builds a strong
foundation for later
success as an elite
athlete. The 22
articles provide
current scientific
knowledge on the
effectiveness of
neuromuscular*

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*training in young
athletes.*

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highlights new
advances in the
field, with this new
release exploring
comprehensive
chapters written by*

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*an international
board of authors
who discuss topics
such as The
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Agricultural Labor
Markets:
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*Minimum Wages,
Etc., Risk
Management in
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Health and
Livestock Disease,
Behavioral and
Experimental
Economics to
Inform Agri-
Environmental*

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Policies, Big Data,
Machine Learning
Methods for
Agricultural and
Applied
Economists,
Agricultural data
collection to
minimize
measurement error
and maximize*

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agriculture and
nutrition, Social
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In Agricultural
Economics, and
more. Presents the
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the Handbook of
Agricultural
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and contributed by*

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Factors Affecting
Performance and
Recovery in Team
Sports: A
Multidimensional
Perspective
Neuromuscular*

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*Training and
Adaptations in
Youth Athletes
High-Intensity
Exercise in
Hypoxia -
Beneficial Aspects
and Potential
Drawbacks*

The popularity of distance running as a sport, and a

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recreational activity,
is at an all-time
high. Motivated by
the desire to
achieve a personal
best, remain
healthy, or simply
complete an event,
distance runners of
all ages and abilities
actively seek out
advice from
experienced

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coaches and sport scientists. This is also reflected in the growth of programmes of education for young coaches and aspiring sport scientists in recent years. There are a multitude of different approaches to training distance

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runners; however, the basic principles and ingredients required for success are applicable to any distance runner. The science that underpins the training and physical preparation of distance runners has developed considerably in

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recent years. The most experienced and successful coaches in the distance running community rarely have the opportunity to share their tried and tested methods of training. Similarly, the novel work of sport scientists is often only

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accessible to elite runners, their support teams and academia. The Science and Practice of Middle and Long Distance Running links together the science and coaching artistry associated with preparing distance runners for

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events ranging from 800 m up to ultra-marathon distances. It combines the latest scientific evidence, published by world-leading sport scientists, with the sound training principles and strategies adopted by experienced coaches. The book

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translates cutting-edge scientific research from the fields of physiology, biomechanics, psychology and nutrition into practical suggestions for achieving success. Important topical issues and contemporary

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practices related to health and performance are also addressed.

This book is an essential addition to the library of any distance runner, coach or sport scientist.

The objective of this book is to assist scientists and

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engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it

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also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The sciences of metallic

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(primarily) and
organic materials
presented
throughout the book
demonstrate how
they can be applied
as an integral part of
spacecraft product
assurance
schemes, which
involve quality,
material and
processes

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evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the

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space environment
are highlighted by
over 500
illustrations
including
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fractographs. Space
hardware captured
by astronauts and
returned to Earth
from long durations
in space are
examined.

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Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of

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advanced structures
or mechanical and
electronic sub-
systems.

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Results from

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Progress in Metal
Additive
Manufacturing and
Metallurgy
Maximizing
Performance and
Safety
Performance
Analysis in Sport
Scientific and
Technical
Aerospace Reports

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The Effects of
Altered Gravity on
Physiology
Humanity has long
been fascinated by the
planet Mars. Was its
climate ever
conducive to life?
What is the
atmosphere like
today and why did it
change so

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dramatically over time? Eleven spacecraft have successfully flown to Mars since the Viking mission of the 1970s and early 1980s. These orbiters, landers and rovers have generated vast amounts of data that now span a Martian

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atmosphere-surface interactions that connect them over time, and the diversity of the planet's environment and its complex history. Including tutorials and explanations of complicated ideas, students, researchers

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and non-specialists alike are able to use this resource to gain a thorough and up-to-date understanding of this most Earth-like of planetary neighbours.

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offers easily accessible and timely information on how complementary therapies influence the health, comfort, and well-being of patients in a variety of clinical settings. It is an influential resource for nurses in practice, education,

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and research."

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"Complementary and
alternative therapies
are increasingly
popular and this
book provides an
informative and up-
to-date introduction

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to the more commonly used treatments."--IAHPC Newsletter (International Association for Hospice and Palliative Care) The seventh edition of this highly acclaimed book continues to deliver evidence-

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based practice
guidelines for the use
of complementary
and alternative
therapies in nursing.
It is the only book
about complementar
y/alternative therapies
that is focused on
nursing, has chapters
that examine specific
therapies along with

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guidance for their implementation, and addresses therapies through a cultural/international lens. It reflects the rapid expansion of research on many complementary therapies and the exponential increase in the use of these

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therapies in the United States and globally. This new edition satisfies the recent requirement by the AACN for knowledge of complementary therapies as essential content for BA and Post-BA programs and will assist

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students in their study for NCLEX-RN test items regarding complementary therapies. New to this edition are the contributions of a new editor, Dr. Mary Frances Tracy, who is a recognized expert in the use of complementary

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therapies in both research and practice settings. In addition to the updating of all research-related content, the book now includes a focus on the use of alternative therapies outside of the U.S. and content on cultural therapies that

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nurses may encounter in clinical agencies. The book incorporates the most up-to-date information from the National Center for Complementary/Alternative Medicine (NCCAM), the relationship of technology to

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complementary
therapies, updated
information about
precautions to be
taken or interactions
to note when using
these therapies,
instructions for the
use of various
therapies, and
available resources
and legal aspects

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related to the use of
complementary
therapies. The book
includes an
interactive PDF. New
to the Seventh
Edition: Completely
updated research-
related contents A
focus on the
international use of al
ternative/complemen

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tary therapies

Incorporates new
information from the
National Center for C
omplementary/Alter
native Medicine
including their most
recent classifications
for complementary
therapies New
content on cultural
therapies that nurses

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may encounter

Technology and
complementary

therapies New

information on

precautions and

potential interactions

Instruction

techniques for each

therapy in exhibit

form Legal concerns

regarding the use of

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complementary
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cutting edge content
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as an introduction to
the exciting world of
engineering,

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FUNDAMENTALS:
AN
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encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well

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as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this

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foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as

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well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental

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principles, students are on their way to becoming analytical, detail-oriented, and creative engineers.

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This volume offers a comprehensive guide to the prevention, management of injury, risk factor mitigation, and rehabilitation in track and field athletes. It serves as a valuable

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**resource for the
sports medicine
community,
including surgeons,
sports medicine
physicians, physical
therapists, and
athletic trainers. In
addition to
addressing current
management
techniques for**

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**information
authored by
experts in the field,
and a valuable
contribution to the
field of orthopedics
and sports
medicine.**

**The sport of soccer
has evolved
immensely since its**

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**beginning around
2,000 years ago and
is now considered
the most popular
sport in the world.
The research
related to the
physical,
psychological, and
tactical aspects of
the game has risen
in conjunction with**

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**its fame. Elite
Soccer Players:
Maximizing
Performance and
Safety seeks to
inform the reader
with the most
current research
connected to
optimizing physical
performance and
reducing the risk of**

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**injury of the elite
soccer athlete for a
variety of ages.**

**After providing an
initial brief
overview of
applying physical
and psychological
scientific concepts
in soccer ("Part I:
Laying the
Foundation"), this**

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**book then takes the
reader through a
series of important
yet novel parts
including: “Athlete
Monitoring and
Data Analysis,”
“Optimizing
Physical
Performance,”
“Injury
Epidemiology and**

**Risk Reduction,”
“Achieving Peak
Performance and
Safety in Various
Environmental
Conditions,” and
“Unique Aspects of
the Game.” The
goal of Elite Soccer
Players:
Maximizing
Performance and**

Safety is to conceptualize and expand upon the current research associated with these topics and provide an applicable point of view to the coaches, sport scientists, strength and conditioning

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**coaches, and sports
medicine**

**professionals who
work with these
athletes every day.**

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fully revised to
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secondary level and
the views of the
many users of the
books. It has
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revised to fully
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requirements of the
new **NERDC
Universal Basic****

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Injures

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Exercise as a

Countermeasure to

Human Aging,

Page 98/165

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Volume II

**Causes, Impacts,
and Conditioning
Programs**

In the past,
'traditional' m
oderate-
intensity
continuous
training
(60-75% peak
heart rate) was

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the type of physical activity most frequently recommended for both athletes and clinical populations (cf. American College of Sports Medicine guidelines).
However,

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growing
evidence
indicates that
high-intensity
interval
training
(80-100% peak
heart rate)
could actually
be associated
with larger car
diorespiratory
fitness and

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metabolic
function
benefits and,
thereby,
physical
performance
gains for
athletes.
Similarly,
recent data in
obese and
hypertensive
individuals

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indicate that
various
mechanisms –
further
improvement in
endothelial
function,
reductions in
sympathetic
neural
activity, or in
arterial
stiffness –

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might be
involved in the
larger
cardiovascular
protective
effects
associated with
training at
high exercise
intensities.
Concerning
hypoxic
training,

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similar trends
have been
observed from
'traditional'
prolonged
altitude
sojourns ('Live
High Train
High' or 'Live
High Train
Low'), which
result in
increased

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hemoglobin mass
and blood
carrying
capacity.

Recent
innovative
'Live Low Train
High' methods
('Resistance
Training in
Hypoxia' or
'Repeated
Sprint Training

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in Hypoxia')
have resulted
in peripheral
adaptations,
such as
hypertrophy or
delay in muscle
fatigue. Other
interventions
inducing
peripheral
hypoxia, such
as vascular

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occlusion
during endurance
training or
remote ischemic
preconditioning
(i.e.
succession of i
schemia/reperfu
sion episodes),
have been
proposed as
methods for

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improving
subsequent
exercise
performance or
altitude
tolerance (e.g.
reduced
severity of
acute-mountain
sickness
symptoms).
Postulated
mechanisms

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behind these
metabolic,
neuro-humoral,
hemodynamics,
and systemic
adaptations
include
stimulation of
nitric oxide
synthase,
increase in
anti-oxidant
enzymes, and

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down-regulation of pro-inflammatory cytokines, although the amount of evidence is not yet significant enough.

Improved O₂ delivery/utilization conferred by hypoxic

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training
interventions
might also be
effective in
preventing and
treating
cardiovascular
diseases, as
well as
contributing to
improve
exercise
tolerance and

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health status
of patients.
For example, in
obese subjects,
combining
exercise with
hypoxic
exposure
enhances the
negative energy
balance, which
further reduces
weight and

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improves cardio-
metabolic
health. In
hypertensive
patients, the
larger lowering
of blood
pressure
through the
endothelial
nitric oxide
synthase
pathway and the

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associated
compensatory
vasodilation is
taken to
reflect the
superiority of
exercising in
hypoxia
compared to
normoxia. A
hypoxic
stimulus, in
addition to

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exercise at
high vs.
moderate
intensity, has
the potential
to further
ameliorate
various aspects
of the vascular
function, as
observed in
healthy
populations.

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This may have clinical implications for the reduction of cardiovascular risks. Key open questions are therefore of interest for patients suffering from chronic

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vascular or
cellular
hypoxia (e.g.
work-rest or is
chemia/reperfus
ion
intermittent
pattern;
exercise
intensity;
hypoxic
severity and
exposure

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duration; type
of hypoxia
(normobaric vs.
hypobaric);
health risks;
magnitude and
maintenance of
the benefits).
Outside any
potential
beneficial
effects of
exercising in

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O₂-deprived environments, there may also be long-term adverse consequences of chronic intermittent severe hypoxia. Sleep apnea syndrome, for instance, leads to oxidative

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stress and the production of reactive oxygen species, and ultimately systemic inflammation. Postulated pathophysiological changes associated with intermittent hypoxic

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exposure
include
alteration in
baroreflex
activity,
increase in
pulmonary
arterial
pressure and
hematocrit,
changes in
heart structure
and function,

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and an

alteration in e
ndothelial-
dependent
vasodilation in
cerebral and
muscular
arteries. There
is a need to
explore the
combination of
exercising in
hypoxia and

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association of
hypertension,
developmental
defects, neuro-
pathological
and neuro-
cognitive
deficits,
enhanced
susceptibility
to oxidative
injury, and
possibly

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increased
myocardial and
cerebral
infarction in
individuals
sensitive to
hypoxic stress.
The aim of this
Research Topic
is to shed more
light on the tr
anscriptional,
vascular,

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hemodynamics,
neuro-humoral,
and systemic
consequences of
training at
high
intensities
under various
hypoxic
conditions.
Increasing
awareness of
healthcare

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disparities and
unique health
needs of
LGBTQ2S people
calls for a
revitalization
of health
professional
training
programs. As
new topics
become
integrated into

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Subject Paper

these programs,
there is a
great need for
a comprehensive
resource that
aligns with
Canadian
guidelines and
standards of
care. Caring
for LGBTQ2S
People
identifies gaps

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in care and health care disparities, and provides clinicians with both the knowledge and the tools to continue to improve the health of LGBTQ2S people.

Written by

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expert authors,
this fully
updated version
builds on the
critically
praised first
edition and
highlights the
significant
social,
medical, and
legal progress
that has

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occurred in
Canada since
2003. The book
includes
general medical
information and
guidance that
is useful for
anyone
providing care
to LGBTQ2S
people.

Chapters in

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this edition
provide
background on
the
fundamentals of
language,
cultural
competency, and
the patient-
provider
relationship,
and include
contemporary

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and expanded discussion on STIs, HIV, substance use, mental health, fertility, and trans health. This clinical guide is written for a general and trainee-level reader in

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health care and
primary care
and showcases a
comprehensive
understanding
of LGBTQ2S
health while
also concluding
with unique
considerations
for those who
experience an
intersection of

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diverse
identities.
Successful
endurance
performance
requires the
integration of
multiple
physiological
and
psychological
systems,
working

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Subject Paper

together to regulate exercise intensity in a way that will reduce time taken or increase work done. The systems that ultimately limit performance of

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the task are
hotly
contested, and
may depend on a
variety of
factors
including the
type of task,
the
environment,
external
influences,
training status

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of the individual and a host of psychological constructs. These factors can be studied in isolation, or inclusively as a whole-body or integrative system. A reductionist

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approach has traditionally been favoured, leading to a greater understanding and emphasis on muscle and cardiovascular physiology, but the role of the brain and how this integrates

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multiple systems is gaining momentum. However, these differing approaches may have led to false dichotomy, and now with better understanding of both fields,

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there is a need
to bring these
perspectives
together. The
divergent
viewpoints of
the limitations
to human
performance may
have partly
arisen because
of the
different

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exercise models studied. These can broadly be defined as open loop (where a fixed intensity is maintained until task disengagement), or closed loop (where a fixed distance is completed in

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the fastest
time), which
may involve
whole-body or
single-limb
exercise.

Closed loop
exercise allows
an analysis of
how exercise
intensity is
self-regulated
(i.e. pacing),

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and thus may better reflect the demands of competitive endurance performance. However, whilst this model can monitor changes in pacing, this is often at the expense of detecting

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subtle differences in the measured physiological or psychological variables of interest. Open loop exercise solves this issue, but is limited by its more

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restrictive
exercise model.
Nonetheless,
much can be
learnt from
both
experimental
approaches when
these
constraints are
recognised.
Indeed, both
models appear

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equally
effective in
examining
changes in
performance,
and so the
researcher
should select
the exercise
model which can
most
appropriately
test the study

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hypothesis.

Given that a multitude of both internal (e.g. muscle fatigue, perception of effort, dietary intervention, pain etc.) and external (e.g. opponents, crowd presence,

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course

topography,
extrinsic
reward etc.)
factors likely
contribute to
exercise
regulation and
endurance
performance, it
may be that
both models are
required to

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gain a
comprehensive
understanding.
Consequently,
this research
topic seeks to
bring together
papers on
endurance
performance
from a variety
of paradigms
and exercise

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models, with
the overarching
aim of
comparing,
examining and
integrating
their findings
to better
understand how
exercise is
regulated and
how this may
(or may not)

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Subject Paper

limit

performance.

Management of
Pediatric Skin
Disease

Whole-body Elec
tromyostimulati
on: A Training
Technology to
Improve Health
and Performance
in Humans?

Regulation of

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Endurance

Performance:

New Frontiers

Physical

Activity

'Enrichment': A

Joint Focus on

Motor

Competence, Hot

and Cool

Executive

Functions

Elite Soccer

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Players

In the last few years, concerns about dancers' health and the consequences of physical training have increased considerably. The physical requirements and type of

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Subject Paper

training

**dancers need to
achieve to
reach their
highest level of
performance
while**

**decreasing the
rate of severe
injuries has
awakened the
necessity of
more scientific**

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Subject Paper

**knowledge
concerning the
area of dance,
in part
considering its
several
particularities.
Scientific
Perspectives
and Emerging
Developments
in Dance and
the Performing**

Arts is a pivotal reference source that provides vital research designed to reduce the gap between the scientific theory and the practice of dance. While highlighting

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Subject Paper

**topics such as
burnout,
mental health,
and sport
psychology,
this publication
explores areas
such as
nutrition,
psychology,
and education,
as well as
methods of**

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**maintaining the
general
wellbeing and
quality of the
health,
training, and
performance of
dancers. This
book is ideally
designed for
dance experts,
instructors,
sports**

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**psychologists,
researchers,
academicians,
and students.**

**Human
spaceflight has
required space
agencies to
study and
develop
exercise
countermeasur
e (CM)**

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**strategies to
manage the
profound, multi-
system
adaptation of
the human
body to
prolonged
microgravity
(μ G). Future
space
exploration will
present new**

**challenges in
terms of
adaptation
management
that will require
the attention of
both exercise
physiologists
and operational
experts. In the
short to
medium-term,
all exploration**

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Subject Paper

**missions will be
realised using
relatively small
vehicles/habitat
s, with some
exploration
scenarios
including
surface
operations in
low (**
**Quality of Life
in Breast**

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**Cancer Patients
and Survivors**

Tennis

**Department of
Defense**

**Dictionary of
Military and**

Associated

Terms

**Optimization of
Exercise Counte**

**rmeasures for
Human Space**

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**Flight - Lessons
from Terrestrial
Physiology and
Operational
Implementation
Commerce
Business Daily**