

### Case Study 3

**Name:** EZ

**Age:** Late 20s

**Number of years as GXi:** Less than 1 year

**Issues:** Left Anterior Cruciate Ligament (ACL) reconstruction, right ankle pain

EZ is a full-time student, and has recently started out as a part-time GXi. She teaches 1 high intensity aerobics class per week, and has soccer practices 2-3 times a week at school. 3 years ago, EZ had a complete tear in her ACL during one of her soccer matches. She had undergone ACL reconstruction surgery and had metal implants in her left knee. She completed rehabilitation and recovered with full knee ROM. Post-surgery and rehabilitation, EZ had no pain in her left knee during soccer games. However, she started to experience tightness and pain in her right ankle when she overexerts herself during soccer games, and recently, while teaching her aerobic classes.

During physical examination, EZ had no significant differences in bilateral knee ROM. Although her left calf appears to be slightly smaller, she has no restrictions in her ankle ROM. Upon palpation, tightness can be felt around the sides and back of the left knee, and there is a palpable difference in muscle tone in her right calf as compared to her left. There is also fascia tightness felt underneath and around the surgical scar on her left knee, despite EZ not having any discomfort around the area.

Based on the above assessment, it seemed likely that the pain in EZ's right ankle was caused by her left knee injury and scar tissue, as her body likely compensated by weightbearing more onto her right side to stabilise the body and allowed the left side to recover from her ACL surgery. Hence, session goals focused on breaking down and remodelling of surgery scar tissue, mobilising the fascia and muscles around her left knee, and reducing the tightness in her right calf to minimise the pain in her right ankle during soccer practices and aerobic classes.

# Manual For Aerobic Instructors

**IDEA Health & Fitness**



## **Manual For Aerobic Instructors:**

**Aerobics Instructor Manual** Richard Thomas Cotton, Robert Lewis Goldstein, 1993 Suitable both for people setting out to be instructors and for seasoned professionals this resource provides a guide to the scientific instructional and professional knowledge required of group fitness instructors Chapters include exercise physiology fundamentals of anatomy biomechanics and applied kinesiology nutrition and weight control health screening fitness testing and aerobic programming teaching an aerobic class special populations and health concerns exercise and pregnancy musculoskeletal injuries emergency procedures and legal and professional responsibilities

**Aerobics Instructor Manual** Richard Thomas Cotton, Robert Lewis Goldstein, 1993 Suitable both for people setting out to be instructors and for seasoned professionals this resource provides a guide to the scientific instructional and professional knowledge required of group fitness instructors Chapters include exercise physiology fundamentals of anatomy biomechanics and applied kinesiology nutrition and weight control health screening fitness testing and aerobic programming teaching an aerobic class special populations and health concerns exercise and pregnancy musculoskeletal injuries emergency procedures and legal and professional responsibilities

**Group Fitness Instructor Manual** , 2000 A handbook for today s fitness instructor Group fitness instructors may be expected to offer participants a wide range of activities such as indoor cycling yoga and strength training as well as aerobics The contributors to this book are experts in a variety of fields including exercise physiology psychology and the law The manual offers the foundation of knowledge necessary to teach fitness in a group setting Topics covered include exercise physiology fundamentals of anatomy and applied kinesiology nutrition health screening designing a group exercise programme teaching the class adherence and motivation disabilities and health limitations exercise and pregnancy injury prevention and emergency procedures and legal and professional responsibilities

**Water Aerobics Instructor Training Manual with Specific Exercise Programs** Rob Thomason, 2017-02-21 Water Aerobics Instructor Training Manual with Specific Exercise Programs by Rob Thomason This book is an instruction manual that gives the potentially new instructor the basic information needed to become certified in water aerobics along with a regime of exercise moves using water dumbbells The exercise portion gives the potential new instructor the means to begin their own classes after receiving certification using this protocol of water exercises though there are other exercise moves that can be incorporated that are not listed in this manual But this manual is more than just about becoming an instructor Due to his role as a senior health advocate the author wishes to impart the importance and benefits of water therapy and water wellness which play in the therapeutic aspect of healing and mending of a patient to the overall fitness and maintaining wellness which an individual receives participating in an actual water aerobics class He also hopes that the medical field recognizes these attributes and supports its usage for the good of their patients In the About The Author section within this manual the author mentions the trainings and certifications that he has received throughout the various programs that lead him to concentrate on incorporating

modifications to various exercise moves so that any individual can join a class and receive basically the same benefits that others get doing the same exercise performed. By having a plan of modified exercises structured within the program you give those individuals that have trouble keeping up a routine of land exercises due to any physical limitations an exercise avenue that is a good fit for their needs and allow them to workout in an overall class structure promoting an atmosphere of safety, camaraderie and overall fun while getting the physical exercises they need along with the mental challenges that are incorporated within many of the exercises themselves. *Fitness Instructor Training Guide* Cheryl L. Hyde, 2002 **EuropeActive's Essentials for Fitness Instructors** EuropeActive, 2015-01-30 EuropeActive's Essentials for Fitness Instructors contains the most comprehensive information and materials to guide fitness instructors towards best practices in helping clients achieve their fitness and health goals. Endorsed by EuropeActive, the fitness and health industry's standard setting authority in Europe, this manual is essential for all aspiring and qualified fitness instructors. This resource includes fundamentals and best practices of concepts, procedures, duties and responsibilities that individual and group fitness instructors perform on the job, covering the knowledge, skills and abilities needed for level 3 classification in the European Qualifications Framework (EQF), the baseline standards for registered fitness instructors in Europe. It provides mechanical and physiological information with hands-on techniques and practical examples to ensure that all fitness instructors deliver enjoyable and effective exercise sessions. Authored by renowned experts from all over Europe, EuropeActive's Essentials for Fitness Instructors supports fitness instructors in promoting healthy lifestyle management and exercise adherence. Current and future fitness instructors will learn ideal ways to do the following: Build rapport and motivate participants; Identify participants' motives and goals; Prepare appropriate choreography and use music; Provide effective and safe instruction; Display and provide feedback on technique and give advice on intensity progressions and adaptations; Deliver excellent customer service and be a positive role model for participants in a clean and safe environment. The book begins by addressing customer service and communication. By first detailing the principles of customer service, the importance of communication in teaching and how to provide and receive feedback, fitness instructors can receive the information that follows with the proper mind set. The book then delves into the core of physiology of individual fitness training, giving instructors a solid base from which to work with clients. Chapters on cardiorespiratory exercise and resistance exercise explain the science and training methods specific to each type of workout, including optimal warm-ups and cool-downs, adaptations and matters of safety. A chapter on principles of training, including progression, dose-response relationship, specificity, overload and reversibility, ties all of these concepts together. The second half of the book deals with effective group instruction, specifying how to incorporate the science of training with the art of class leadership. Preparing for delivering and even ending a class come with particular strategies that will boost retention and results, and three chapters on music and choreography take the guesswork out of structuring a routine. Finally, a chapter on stress management offers an overview of

the effects of stress on health symptoms to watch for and relaxation techniques The book concludes with an appendix of the EuropeActive EQF level 3 standards for reference Aspiring and qualified fitness instructors have a duty of care to keep up with the latest health and fitness standards EuropeActive s Essentials for Fitness Instructors ensures instructors are properly serving their industry and their clients For those who promote physical activity and healthier lifestyles there is no other title with more authority in Europe Injury Prevention for Fitness Instructors IDEA Health & Fitness,2001 *Personal Trainer Manual* ,1996 p-i-l-a-t-e-s Instructor Manual Foam Roller - Levels 1 - 5 Catherine Wilks,2011-06-26 p i l a t e s Foam Roller Instructor Manual 39 Exercises over 5 Levels this manual offers a complete guide to performing exercises on the Foam Rollerl A fantastic versatile piece of equipment necessary for any Pilates Studio or Fitness Professional This manual offers a step by step guide to progressing clients with this apparatus It is an excellent resource for Pilates Instructors and Personal Trainers **Personal Trainer Manual** Mitchell Sudy,1991 **p-i-l-a-t-e-s Mini Ball Instructor Manual - Levels 1 - 5** Catherine Wilks,2012-01-05 p i l a t e s Mini Ball Instructor Manual 31 Exercises over 5 Levels this manual offers a complete guide to performing exercises with the Mini Ball A fantastic versatile piece of equipment necessary for any Pilates Studio or Fitness Professional This manual offers a step by step guide to progressing clients with this apparatus It is an excellent resource for Pilates Instructors and Personal Trainers *Aerobics and Circuits for Secondary Schools* Jill Elbourn,2008-11 Methods of Group Exercise Instruction Mary M. Yoke,Carol K. Armbruster,2019-06-03 In the constantly evolving world of fitness and exercise it is challenging to become and remain an effective group exercise instructor *Methods of Group Exercise Instruction* Fourth Edition With Online Video offers expert guidance in a variety of group exercise formats so current and aspiring instructors can hone their skills and create demand for their services The authors who have dozens of years of experience thoroughly explain group exercise training principles correction and progression techniques and safety tips They also have taught this course within a university setting This research based text will enhance the skills of group exercise leaders and prepare them to lead more dynamic safe and effective classes for clients of differing ages abilities and interests *Methods of Group Exercise Instruction* Fourth Edition goes beyond theory to help fitness instructors and managers understand the why behind class and program design the proper way to cue participants and the variety of modalities they can use in their teaching Revised and reorganized based on current industry best practices this edition includes the following Over 100 minutes of online video demonstrating warm ups routines drills and 15 new class formats A new chapter dedicated specifically to instructing older adults New coverage of high intensity interval training HIIT Two additional sample class plans for featured group exercise formats The text also features a number of additional learning aids to help readers retain and apply the content Pro Tips offer insights and expertise from industry veterans boxes and sidebars highlight important topics research findings and technique and safety checks practice drills offer opportunities to apply the information and evaluation forms are provided to self assess teaching success *Methods of Group Exercise Instruction* Fourth Edition will

prepare any group fitness instructor for a successful career Students will gain a strong foundation to earn their group fitness certification and veteran instructors will be able to refine their skills to increase their marketability and success *Fitness Professional's Handbook* Edward T. Howley, Dixie L. Thompson, 2022-06-02 *Fitness Professional's Handbook* Seventh Edition With HKPropel Access provides current and future fitness professionals with the knowledge to screen participants conduct standardized fitness tests evaluate the major components of fitness and prescribe appropriate exercise The text uses the latest standards guidelines and research from authorities in the field to prepare readers for certification and arm them with the knowledge to work with a variety of clients and populations This full color text incorporates information from the 10th edition of ACSM's Guidelines for Exercise Testing and Prescription and the Physical Activity Guidelines for Americans exercise and physical activity recommendations for adults older adults children and those with special needs The text embraces the importance of communication between allied health and medical professionals with those in the fitness arena to provide readers with a foundation for prescribing exercise and delivering need and goal specific physical activity and fitness programs Every chapter has been updated allowing readers to explore the newest theories and research findings and apply them to real world situations The following are among the most significant changes to the seventh edition Related online content delivered via HKPropel that includes an online video library containing 24 video clips to help readers better apply key techniques covered in the book as well as fillable forms that students can use beyond the classroom A new chapter Training for Performance helps professionals expand their practice to work with recreational athletes who have performance related goals New information including the consequences of exercise induced muscle damage rhabdomyolysis devices used to track physical activity and estimate energy expenditure e g accelerometers relative flexibility and the role of lumbopelvic rhythm in back function the importance of progression in an exercise prescription and the professional standard of care associated with HIIT programs reflects recent topics of interest and research Updated statistics on CVD and CHD from the American Heart Association adult and childhood obesity and the prevalence of COPD asthma bronchitis and emphysema ensure accurate representation of data With a comprehensive and practical approach this text enables readers to help individuals communities and groups gain the benefits of regular physical activity in a positive and safe environment It provides background to the field scientific fundamentals and up to date recommendations to help readers better understand the role of physical activity in the quality of life and guidelines for screening testing supervising and modifying activity for various populations Note A code for accessing HKPropel is not included with this ebook but may be purchased separately

*Handbook of Diabetes Management* Donna Zazworsky, Jane Nelson Bolin, Vicki Gaubeca, 2007-12-29 The growing problem of diabetes presents difficult challenges for sufferers and for those in the healthcare professions who are in the unenviable position of trying to convince patients to change their lifestyle for their own good *Handbook of Diabetes Management* provides practical knowledge and advice that can help you anticipate the challenges of working with these Patients What s

more since the knowledge here is evidence based you can assure your patients that the guidelines you re presenting to them have been shown to be effective This guide takes into account the complexity of the disease the diversity of the populations it affects and the continued improvement of care systems It discusses the origins of diabetes and medication management and treatment then presents advice based on the latest research findings on behavioral health and self management issues and interventions tips for patients dealing with issues such as travel surgery and foot care treating specific patient populations including Latinos Native Americans rural communities and the uninsured case studies from successful replicable programs Also addressing the business aspects of diabetes care related to such areas as legal and regulatory issues and health policy initiatives Handbook of Diabetes Management brings you practical insights based on the latest research This handbook book by expert professionals covers every aspect of diabetic care It is a sound evidence based culturally informative practical approach to diabetes prevention and disease management Kathleen Lambert BSN RN JD from the Foreword

**Health Fitness Instructor's Handbook** Edward T. Howley, B. Don Franks, 1997 Health Fitness Instructor's Handbook is the most comprehensive and up to date book available for health and fitness professionals who want to learn about the latest advances in physical fitness Respected exercise scientists Edward T Howley and B Don Franks have teamed up with eight contributors to provide the latest information on the following the scientific foundations of physical activity and fitness nutrition body composition and weight management the components of fitness exercise prescription and exercise programming considerations This third edition has been updated according to 1995 ACSM objectives for Health Fitness Instructor and Exercise Leader certifications and the Surgeon General's Report on Physical Activity and Health Plus the book features a better organization with a heavier focus on exercise prescription new chapters on metabolic costs of physical activity weight management and exercise prescription for special populations new in text reviews linked to learning objectives and case studies for every chapter

*Tuning Fork Therapy Level Four: A Manual for Class Instruction Or Self-Study* Francine Milford, 2005-08 In Level Four you learn how to use specific tuning forks on the 12 meridians of the body Readers will also be introduced to the five elemental theory and will be given five meditations to enhance their own needs The flow of energy in the body will covered and a simple yet effective technique to enhance the energy of flow of energy the body will be shown

*Fitness Professional's Handbook* Barbara A. Bushman, 2024-04-08 This text provides current and future fitness professionals foundational information in the areas of fitness testing and prescription to be able to screen participants carry out standardized fitness tests to evaluate the major components of fitness and write appropriate exercise prescriptions It uses the most recent recommendations and guidelines from governmental sources and professional organizations to prepare fitness professionals for certification as well as to work with diverse clients populations and professionals in allied health fields This edition has been reorganized to enhance the presentation of content and updated to include the latest information as well as new features such as application points research insights and additional case studies to serve as a useful textbook

for students as well as a valuable reference for practitioners      **Fitness ABCs** Chuck Krautblatt, 2007-04 Fitness Training Manual in easy to read format for both trainers and clients Book includes all necessary forms and charts Includes weight training aerobics nutrition and senior fitness      *Air Defense Artillery* ,1986



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