

Faculty of Sport and Exercise Medicine UK

Diploma in Team Care Syllabus



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Executive Summary

Sport and Exercise Medicine (SEM) is a medical speciality which incorporates aspects of musculoskeletal medicine, exercise medicine and team care. There is no current international consensus on the optimal assessment or qualification required to demonstrate a minimum level of skills and knowledge for healthcare professionals working in elite sport. This creates uncertainty and variability in recruitment of appropriately qualified and experienced staff.

This Faculty of Sport and Exercise Medicine UK Team Care Diploma aims to provide the worldwide recognised assessment of the minimum required skills and knowledge for healthcare professionals providing care in an individual and/or team sport environment. It is intentionally broad and aims to represent the extremely varied and often challenging nature of working as a healthcare professional in a high-performance sport setting.

Syllabus modules cover the breadth of potential work demands including significant focus on clinical governance, interdisciplinary team working, ethical and moral dilemmas. There are also modules that focus on key clinical aspects of working with specific groups of athletes, dealing with specific health complaints that athletes may present with and other non-clinical demands that may be required of the medical team.

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Module 1: Clinical Governance

Subject Area	Knowledge Should be able to describe:	Skills Should be able to:
Medicines Management	<p>Statutory requirements for organisations providing healthcare in relation to procurement, storage, handling, record-keeping, usage and disposal of medicines, including travel to and from training and competitions.</p> <p>Specific requirements for controlled drugs (CDs) in relation to legislation on the safe use and management of CDs, safe custody regulations and possession and supply of these medicines.</p> <p>Potential factors that may challenge a medicine's management policy within elite sport such as international travel.</p> <p>Anti-doping rulings related to all matters of medicines management.</p>	<p>Take a medication history specifically for an athlete in relation to their sport. Produce accurate, written prescribing reports and electronic medical records.</p> <p>Perform an audit on medicines management.</p> <p>Check the prohibited status of specific medicines for an individual based on the current World Anti-Doping Agency (WADA) Prohibited List.</p> <p>Design and implement a medicine's management policy for a team and/or sport.</p> <p>Work with pharmacists and other healthcare professionals to facilitate best practice in medicine's management including the use of Patient Specific Directions (PSDs).</p>
Appraisal and Continued Professional Development (CPD)	<p>Registration and requirements pertaining to appraisal and revalidation from their relevant regulatory body.</p> <p>The professional values and behaviours expected of</p>	<p>Keep professional knowledge up-to-date and take part in activities that maintain and develop competency and performance.</p> <p>Take part in and complete work-place based</p>

	<p>them from their relevant regulatory body.</p> <p>Mandatory training requirements for team care practitioners in elite sport including:</p> <ul style="list-style-type: none"> • Pre-hospital • Pitch-side or Emergency Care • Anti-doping • Safeguarding • Equality, Diversity, and Inclusion • Infection Prevention and Control <p>Continued professional development and on-going education requirements for healthcare professionals in sport.</p> <p>The importance of appropriate:</p> <ul style="list-style-type: none"> • Professional indemnity • Disclosure and Barring service checks 	<p>assessments, structured reports, multi-source feedback and reflective practice.</p> <p>Complete an annual appraisal and understand the process involved in this. Be familiar with guidelines and developments that affect your work in sport.</p> <p>Engage athletes and coaches on important medical and health related topics.</p> <p>Prepare and deliver teaching and training to other health-care professionals and athletes.</p> <p>Ensure learning from patient injury and illness data.</p> <p>Recognise accepted best practice guidance around social media behaviour and the potential pitfalls that exist.</p>
Clinical effectiveness	<p>Principles of evidence-based medicine pertaining to medical provision in elite sport.</p> <p>The role of clinical guidelines in supporting athlete care.</p> <p>Research methodology (e.g., study design, data analysis) which could be used to enhance clinical care.</p>	<p>Critically appraise literature relevant to medical provision in elite sport.</p> <p>Adapt clinical practice and protocols based on new evidence and experience.</p> <p>Demonstrate an awareness and understanding of key clinical guidelines in elite sport, including the medicolegal framework within which they exist.</p>

		Identify ethical concerns and barriers related to conducting clinical research in elite sport settings.
Risk management	<p>Relevant regulatory body standards with respect to medical records and storage of this information, including data protection.</p> <p>Systems and protocols which can be used to reduce risks in an elite sport setting (e.g., infection control measures, emergency action plans, safeguarding procedures).</p> <p>Significant event reporting procedures (including near miss events).</p> <p>Strategies (e.g., clinical audit, Quality Improvement Project (QIP)) used to evaluate service provision and subsequently make informed recommendations.</p>	<p>Maintain contemporaneous medical records in keeping with professional standards (e.g., General Medical Council (GMC), The Health and Care Professional Council (HCPC)).</p> <p>Design an Emergency Action Plan which is fit for purpose for the setting within which you work.</p> <p>Develop and implement evidence-based protocols which can be used to reduce risks in an elite sport setting.</p> <p>Promote a positive culture of transparency and learning within the elite sport setting through implementing suitable governance procedures (e.g., significant event reporting, managing complaints, reflective practice, debriefs etc).</p>
Clinical Audit	<p>Statutory and mandatory requirements for clinical audit for sporting environments.</p> <p>Why clinical audit is vital. A method of quality assurance to improve processes and outcomes, identify and minimise risks, waste and</p>	<p>Document a strategy for clinical audit for an organisation.</p> <p>Document complete audit cycle including how the audit improved outcomes, minimised risks or provided assurance of clinical standards.</p>

	<p>insufficiencies and provide assurance of compliance with clinical standards.</p> <p>The stages of the audit cycle. Preparation and planning, measure performance, implement change, sustain improvement.</p>	
Moral Dilemmas and Ethics	<p>The code of conduct for regulated practitioners.</p> <p>The current laws and best practice guidance relating to consent and confidentiality.</p>	<p>Apply the principles of good practice in relation to various sports medicine scenarios in areas of consent, confidentiality, anti-doping, use of innovative versus evidence-based practice, athlete/practitioner relationship, return to play decisions, performance vs. health balance.</p>

Module 2: Safe and effective practice

Subject Area	Knowledge Should be able to describe:	Skills Should be able to:
<p>Data preparation, analysis, storage and presentation</p>	<p>The different methods of capturing data</p> <p>The concept of data preparation.</p> <p>Key considerations when choosing appropriate questionnaire and data analysis methods for sports and performance related problems.</p> <p>The key considerations to interpret quantitative results.</p> <p>What data protection legislation (UK General Data Protection Regulation (GDPR) and the Data Protection Act 2018) exists and the core themes and principles within it, including common terminology.</p> <p>A team care practitioners' responsibilities for protecting the data they work with.</p> <p>The role of a Data Protection Officer.</p>	<p>Perform work duties in a way that honours good data protection practices in all areas that involve personal data.</p> <p>Apply the 7 basic GDPR principles to data processing.</p> <p>Understand what constitutes the following and the processes that occur following these:</p> <ul style="list-style-type: none"> • Data breaches • Subject access requests <p>Identify the correct places and people to get help with assessing, mitigating, and reporting data risks and incidents.</p>

<p>Regulation of healthcare (An example of a relevant organisation is the Care Quality Commission in England, but these will differ from country to country)</p>	<p>The purpose of organisations that regulate health and social care.</p> <p>The role of independent regulatory organisations in the assessment of the provision of healthcare in elite sports environments.</p> <p>The type(s) of publications and assessments produced by an independent regulator.</p> <p>The role of equality and human rights in the work of an independent regulator.</p>	<p>Identify if a facility is required to register with an independent regulatory organisation in order to provide healthcare services to athletes.</p> <p>Understand how to report concerns to an independent regulator about healthcare provision.</p> <p>Apply equality and human rights when providing healthcare and ensure these are protected in the elite sport and exercise medicine environment.</p>
<p>Infection Control</p>	<p>National and local guidelines, policies and procedures relevant to infection control and prevention.</p> <p>Different factors that increase the likelihood of individuals acquiring an infection, including:</p> <ul style="list-style-type: none"> • Age • Reduced immunity • Medical Conditions • Inappropriate use of antibiotic • Poor standards of infection prevention and control <p>Different modes of infection transmission, including:</p> <ul style="list-style-type: none"> • Direct human-to-human contact 	<p>Follow appropriate national and local guidelines, policies and procedures relevant to infection control and prevention.</p> <p>Assess the risk to individuals in relation to their likelihood of acquiring infections and potential complications and severity of this, based on their individual factors.</p> <p>Follow local guidance in relation to responsible and appropriate prescribing of antibiotics.</p> <p>Use Personal Protective Equipment appropriately according to their working environment and situation.</p> <p>Carry out appropriate hand hygiene, including hand</p>

	<ul style="list-style-type: none"> • Indirect contact, such as air-borne, vector-borne, and through touching contaminated equipment <p>Methods to enable themselves to contribute to infection control and prevention.</p> <p>Their responsibilities towards infection prevention and control, including:</p> <ul style="list-style-type: none"> • Use of Personal Protective Equipment • Hand Hygiene • Dealing with spillages of blood and body fluids • Dealing with sharps injuries and other occupational exposures/risks • Management of equipment being used and the environment. <p>Situations where their own health and fitness could be an infection risk to others in the environment.</p>	<p>washing with soap and water and use of hand sanitisers.</p> <p>Appropriately manage blood and bodily fluid spillages, following local policies.</p> <p>Appropriately use and dispose of sharps following local policies.</p> <p>Appropriately manage sharps injuries and other occupational exposures/risks, following local policies.</p> <p>Manage used linen and clothing appropriately following local policies to prevent spread of infection.</p> <p>Dispose of clinical waste in a safe way, including using the appropriate colour-coded waste system in their working environment.</p> <p>Follow appropriate cleaning and decontamination procedures relevant to the working environment and equipment being used.</p> <p>Recognise when own health and fitness may pose an infection risk and take appropriate steps to prevent the spread of infection to others.</p>
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<p>Adult and Child safeguarding</p>	<p>Regulated Activity.</p> <p>Abuse and its various forms (Neglect, Physical, Emotional, Sexual).</p> <p>The possibility for each type of abuse within a sporting context.</p> <p>The signs and indicators of abuse and neglect within a sporting environment.</p> <p>The potential barriers to identification and reporting of abuse.</p> <p>The Mental Capacity Act (MCA) and the framework it provides for making decisions about the care and treatment of people.</p> <p>The five key principles of the MCA.</p> <p>Children and those adult groups who may be at increased risk of harm.</p> <p>The signs of bullying, and how to address this within an organisation.</p> <p>The rights of children, and relevant legislation (The Children Acts 1989 and 2004).</p> <p>The role of child protection units within the UK (e.g. Child Protection in Sport Unit (CPSU)).</p>	<p>Be able to complete all the components of an incident report form (e.g. CPSU template).</p> <p>Identify who is responsible for adult and child safeguarding within a sporting organisation.</p> <p>Perform a risk assessment for participation in local and overseas sport activity.</p> <p>Identify the 5 events levels:</p> <ol style="list-style-type: none"> 1. Organised but less formal events 2. Single-school or single club events 3. Local, multi-club/inter-school sports events 4. Regional or national events 5. International events <p>Assist in producing a safeguarding plan for each level including reporting procedures.</p> <p>Identify key steps to safeguard and protect children and young people coming from minority ethnic groups.</p> <p>Detail the appropriate use of chaperones and produce a policy related to this.</p> <p>Recognise, consider and address the potential safeguarding concerns</p>
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	<p>The principles of consent in children and young people.</p> <p>The factors that may increase risk of harm and abuse towards elite level adolescent athletes and how to mitigate these.</p> <p>Potential risk factors for harm or abuse within an adult population.</p> <p>The requirement for guidelines for reporting concerns when an adult is, or may be at risk of being harmed, or is in need of protection.</p> <p>The concept of capacity, and how to assess it.</p> <p>Self-neglect, and challenges faced in responding to suspicions of self-neglect.</p> <p>Your role in relation to domestic violence and abuse and how to respond and refer in order to support.</p> <p>The importance of identifying recurrent themes in reviews and sharing the lessons learned.</p> <p>The appropriate action to take in order to escalate a safeguarding concern relating to an at-risk adult or child.</p>	<p>associated with e-technology:</p> <ul style="list-style-type: none"> • Cyberbullying • Sexting <p>Recognise the misuse of texting and social media to identify, contact or groom children and young people for abuse.</p> <p>Write a parental consent form to include:</p> <ul style="list-style-type: none"> • acceptance of the code of conduct • emergency contact numbers (at least two) • any specific medical information or information relating to an impairment or disability. • information about any other factors that may affect the young person (e.g. family bereavement). <p>Contribute to the medical aspects of a code of conduct for a team sport trip.</p> <p>Help foster a culture where adults are consulted on every decision that affects them.</p> <p>Respond, record and report suspicions or allegations of abuse / inappropriate behaviour correctly.</p>
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	<p>When it might be necessary to share information with other agencies and how to do this appropriately.</p> <p>What safeguarding supervision is and the critical role it plays in ensuring the highest standard of care for children, young people and at-risk adults.</p>	<p>Review and influence policies that will reduce harm resulting from abuse, exploitation or neglect.</p> <p>Influence a sporting organisation to promote a zero tolerance to risk of harm or neglect.</p> <p>Encourage a sporting team or organisation to work collaboratively across sectors to promote safety and prevent harm.</p> <p>Contribute and carry out risk assessments, as appropriate to your role as a Sport and Exercise Medicine (SEM) clinician.</p> <p>Establish when an adult may not have capacity to consent to treatment.</p> <p>Understand the role and responsibilities of an SEM practitioner in case reviews and how they may contribute to learning and application of recommendations to improve practice.</p>
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Module 3: Interdisciplinary team work

Subject Area	Knowledge Should be able to:	Skills Should be able to:
Effective multi-disciplinary team working	<p>The components of effective collaboration and team working.</p> <p>The roles and responsibilities of members of the multi-disciplinary healthcare team.</p> <p>Factors which may adversely affect a healthcare professional and/or a team's performance, as well as the methods which may be employed to rectify these factors.</p> <p>Personal and team resilience and the impact that resilience has on team effectiveness</p>	<p>Communicate with colleagues accurately, clearly, promptly and comprehensively across a variety of appropriate communication formats.</p> <p>Utilise the expertise and strengths of the whole multi-disciplinary team to optimise patient and population care across a variety of care settings.</p> <p>Effectively coordinate care across multiple agencies and providers to ensure timely and optimal clinical care.</p> <p>Ensure that appropriate supervision is maintained when delegating responsibility to another member of the team.</p> <p>Communicate effectively with coaching staff, administrative bodies and support organisations.</p> <p>Demonstrate flexible and adaptable leadership styles to optimise team cohesion and productivity.</p> <p>Support an open and transparent approach to incident and complaint</p>

		<p>investigation, management and resolution.</p> <p>Synthesise complex clinical and psychosocial information contributing to patient-centred clinical decision making in a variety of care settings.</p> <p>Demonstrate attitudes and behaviours that assist dissemination of good practice.</p> <p>Employ behavioural management skills with colleagues to prevent and resolve conflict and enhance collaboration.</p>
<p>Leadership, management, supervision and understanding self</p>	<p>The different leadership styles and evaluate their strengths and weaknesses.</p> <p>The importance of effective communication and interpersonal skills in a team environment.</p> <p>The relevance of supervision, learning and development.</p> <p>Common organisational structures in which healthcare professionals may practice team/performance medicine.</p> <p>Key principles of management and its application in team</p>	<p>Apply ethical principles and behave in a manner in line with their relevant regulatory body in all roles being undertaken including leadership and management roles.</p> <p>Promote diversity, equality and inclusion in a range of roles in high performance team.</p> <p>Recognise deteriorating performances of colleagues (e.g. stress/fatigue other) and develop strategies to address this</p> <p>Utilise effective negotiation and conflict resolution skills to manage conflict scenarios</p>

	<p>care/high performance environments.</p> <p>The potential impact of personal attitudes, values, beliefs, perceptions and biases (which may be unconscious) on individuals and groups.</p>	<p>in a high-performance environment.</p> <p>Support, educate, influence and develop members of the wider multi-professional team.</p> <p>Develop strategies to mitigate the potential impact of personal attitudes, values, beliefs, perceptions and biases (which may be unconscious) on individuals and groups.</p>
<p>Continuing Professional Development (CPD), Research and Education</p>	<p>Basic concepts of quantitative and qualitative research methodology, including basic statistics, used commonly in scientific medical practice.</p> <p>The advantages and disadvantages of different research methodologies (e.g. systematic reviews, experimental, quasi-experimental and observational).</p> <p>The hierarchy of evidence.</p> <p>Methods to assess the certainty of evidence.</p> <p>The importance of CPD and elements of appraisal.</p> <p>Different types of learning styles for educating others.</p>	<p>Appraise evidence to address a clinical question.</p> <p>Critically review scientific literature and apply evidence-based principles to the practice of Sport and Exercise Medicine (SEM).</p> <p>Evaluate limitations of research.</p> <p>Undertake the process of appraisal and identify the benefits of yearly review.</p> <p>Discuss the importance of continuing professional development and the different types of CPD.</p> <p>Discuss how different tools may be used to ensure all learning styles are met when educating individuals and groups.</p>

Module 4: Specific athlete groups

Subject Area	Knowledge Should be able to describe:	Skills Should be able to:
Female Athletes	<p>Sex based differences in epidemiology of sports injury and medical illness.</p> <p>Normal hormonal fluctuations in the menstrual cycle.</p> <p>Potential impact of normal hormonal variations across the menstrual cycle on athletic performance, training adaptations, nutritional considerations, injury and illness risk.</p> <p>Menstrual symptoms that may affect the ability to train and potential impact on quality of life, including heavy menstrual bleeding, dysmenorrhoea, oligomenorrhoea, amenorrhoea, pre-menstrual syndrome.</p> <p>Medical conditions related to the menstrual cycle such as PCOS, endometriosis and intermenstrual bleeding.</p> <p>Relative Energy Deficiency in Sport (RED-S) including epidemiology, hormonal, bone health, medical, psychological and nutrition aspects.</p>	<p>Design and implement appropriate injury and illness prevention programmes specific to female athletes.</p> <p>Advise and educate female athletes on the normal menstrual cycle, including advice related to optimising training adaptation, performance and maximising health.</p> <p>Assess and manage a female athlete with medical problems related to the menstrual cycle.</p> <p>Display competence in the initial investigation of a medical condition related to the menstrual cycle and awareness regarding how and when to refer to appropriate specialists.</p> <p>Assess, diagnose and manage a female athlete with RED-S.</p> <p>Refer or signpost to a healthcare professional with a special interest in mental health for a suspected or identified eating disorder or other psychopathology in addition to RED-S.</p>

	<p>Medical care related to pregnancy, infertility, miscarriage and postnatal return to sport and exercise.</p> <p>Hormonal and non-hormonal contraception options for an athlete.</p> <p>Assessment and management of female athlete specific pelvic health issues including incontinence and lower urinary tract symptoms.</p>	<p>Provide support, care and advice on sport and exercise to female athletes who become pregnant.</p> <p>Provide support, care and advice on return to sport and exercise for female athletes in the postnatal period.</p> <p>Support and appropriately refer athletes with miscarriage and fertility issues.</p> <p>Advise a female athlete on health and performance implications of hormonal and non-hormonal choices for contraception.</p> <p>Assess and advise an athlete on pelvic pain, continence and lower urinary tract symptoms and recognise when to refer to a pelvic health specialist physiotherapist.</p>
Older Athletes	<p>Changes in epidemiology of injury with age.</p> <p>The effect of ageing on various organ systems and subsequent impact on athletic performance.</p> <p>Health considerations of exercise and injury risk; including cardiorespiratory and musculoskeletal systems.</p>	<p>Design and implement injury prevention programmes for the older athlete.</p> <p>Design and implement specific training programmes for the older athlete, including advising on physical activity and exercise prescription with consideration for a range of co-morbid health conditions.</p>

	<p>Hormonal variations with age and impact on health and exercise performance; including perimenopause, menopause, post-menopause and testosterone variations in male athletes.</p> <p>Anti-doping rulings related to testosterone and hormonal supplementation.</p>	<p>Appropriately diagnose, investigate and manage older athletes to safely maximise their health and performance with consideration of hormonal variations related to age, whilst adhering to relevant anti-doping rules. Including perimenopause, menopause, post-menopause and testosterone variations in male athletes</p>
Retiring and retired athletes	<p>Common conditions that may require an individual to retire from certain sports.</p> <p>Roles of the Multi-disciplinary Team (MDT) and wider support network that may be involved in a decision to retire from sport.</p> <p>Potential factors that may impact the athlete after retirement from sport including physical, psychological and socioeconomic.</p> <p>Importance of identifying and then appropriately handing over medical care to the long-term caregiver.</p> <p>Barriers that the individual may encounter when transitioning from professional sport to physical activity for health.</p>	<p>Appropriately identify, diagnose and manage conditions that may require the athlete to retire from sport.</p> <p>Work with the MDT and the athlete to assist the individual to make prudent decisions around retirement from sport.</p> <p>Identify potential issues pertinent to the individual and put strategies in place to remedy their impact including signposting or referring to appropriate services.</p> <p>Explain key elements to be included in a written report of an individuals' injuries in the assessment of occupational related injury.</p> <p>Produce oral and written reports and electronic</p>

		<p>records to the appropriate GP, specialists and allied health professionals.</p> <p>Understand and identify barriers to physical activity for health in these individuals and counsel them in decision making around physical activity.</p>
Paediatric Athletes	<p>Anatomical and physiological differences in children and adolescents.</p> <p>Patterns of normal growth and development including puberty and its normal variations.</p> <p>Common sports injuries in children and adolescents:</p> <ul style="list-style-type: none"> • Traumatic fractures • Stress fractures – high and low risk • Pars fractures • Traction apophysitis • Avulsion fractures • Biomechanical problems (Medial Tibial Stress Syndrome (MTSS) and Patellofemoral pain) • Concussion <p>Common medical problems in child and adolescent athletes:</p>	<p>Perform a concussion assessment in a child and adolescent.</p> <p>Recognise and provide initial management for life-threatening airway, breathing or circulatory compromise in children and adolescents.</p> <p>Recognise and treat anaphylaxis in children and adolescents.</p> <p>Assess nutritional status in a child/adolescent and how to screen for disordered eating.</p> <p>Demonstrate the ability to seek help when required when dealing with children and adolescents and knowledge of where to seek appropriate help.</p> <p>Recognise and respond to psychological effects of illness and injury in children and adolescents.</p>

	<ul style="list-style-type: none"> • RED-S • Asthma • Exercise-induced Laryngeal Obstruction (EILO) • Fatigue and underperformance <p>Common psychological problems in child and adolescent athletes:</p> <ul style="list-style-type: none"> • Parental pressure • Balancing sport and school • Holistic development and pastoral care • Adolescent awkwardness and motor incoordination • Educating parents and children <p>How to take a history from a child/adolescent which is relevant to their presenting complaint with consideration of mechanism of injury/causative factors.</p> <p>How to perform a musculoskeletal examination in a child/adolescent including interpretation and discussion of physical findings.</p>	<p>Recognise the benefits of multi-disciplinary teams in care of children and adolescents.</p> <p>Recognise special needs of adolescents during consultation.</p> <p>Address safeguarding concerns in children and adolescents.</p> <p>Work with the MDT to develop and implement a comprehensive rehabilitation plan for musculoskeletal injury in children and adolescents.</p> <p>Support coaches and other members of the MDT in the development of movement and technical competencies in a chosen sport or activity.</p>
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	<p>Investigation and management of common sports injuries and medical problems in children and adolescents.</p> <p>Issues relating to consent and confidentiality in children and adolescents, including Fraser guidelines and Gillick competency.</p> <p>Common causes of accidents in children and adolescents including safeguarding implications and prevention strategies.</p> <p>Common safeguarding concerns in children and adolescents.</p> <p>Common causes of fatigue and underperformance in paediatric athletes.</p> <p>Common nutritional deficiencies and how to diagnose and manage these (Iron, Vitamin D, those associated with Relative Energy Deficiency in Sport).</p> <p>Clinical presentation of young people with eating disorders.</p>	
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	<p>Contraceptive and sexual health issues including sexually transmitted infections and teenage pregnancy and how to provide appropriate advice.</p> <p>Features of depression in children and adolescents and when to refer to specialist services.</p> <p>Causes of cardiac arrest in children, the prognostic factors that influence the outcome and how to provide basic life support and advise others.</p> <p>Causes and features of anaphylaxis.</p> <p>Where to find out information necessary for safe prescribing through use of paediatric formularies and pharmacy liaison.</p> <p>Athlete development, including training components:</p> <ul style="list-style-type: none"> • Monitoring the paediatric athlete. • Bio-banding. • Resistance training as a component of rehabilitation that is appropriate to a 	
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	specific injury and the individual's age and development.	
Para-Athletes	<p>Epidemiology of injury and illness in para-athletes.</p> <p>Subtypes of Cerebral Palsy, clinical manifestations and impact on health and performance.</p> <p>Health considerations for medical care of spinal cord injured athletes including bowel and bladder care, pressure care, skin care, thermoregulation and Autonomic Dysreflexia.</p> <p>Physical health considerations for non-ambulant athletes including wheelchair users.</p> <p>Physical health considerations for upper and lower limb deficient athletes including appropriate skin hygiene and stump management.</p> <p>Physical, mental and social health considerations for athletes with intellectual impairments.</p> <p>Physical, mental and social health considerations for athletes with visual impairments.</p> <p>Impact on health and performance for a range of</p>	<p>Design and implement appropriate injury and illness prevention programmes specific for para-athletes.</p> <p>Recognise and manage physical symptoms related to Cerebral Palsy that may impact on health and performance including hypertonia, dyskinesia and ataxia.</p> <p>Support spinal cord injured and wheelchair user athletes on strategies to maximise their health through effective bowel and bladder care, pressure area management and skin hygiene.</p> <p>Recognise, diagnose, manage and understand the performance impact of Autonomic Dysreflexia.</p> <p>Advise an athlete with an upper and/or lower limb deficiency on appropriate preventative and management strategies related to optimising skin and stump health.</p> <p>Develop and implement strategies to support athletes who may have thermoregulatory issues to</p>

	<p>other para-athletic classifiable health conditions including dwarfism and neurological conditions including multiple sclerosis.</p> <p>Principles and process of para-athlete classification and categorisation in sport.</p>	<p>train and compete safely in environmentally challenging climates.</p> <p>Maximise healthcare provision and performance in athletes with an intellectual impairment including appropriate involvement of parents and carers.</p> <p>Recognise and appropriately manage athletes with neurological conditions including functional neurological disorders and the impact on health and para-athlete classification.</p> <p>Support a para-athlete through classification, including recognition and management of ethical, governance and moral issues related to classification.</p>
Transgender Athletes	<p>The World Anti-Doping Agency (WADA) Anti-Doping Code / The Prohibited List and how medical treatment for transgender athletes may have anti-doping considerations.</p> <p>The epidemiology of transgender athlete participation in sport.</p>	<p>Apply knowledge and consider benefits and risks of treatment and ongoing monitoring/screening that may be required in these athletes.</p> <p>Recognise the relevance of these performance characteristics and attributes in different sports and their interaction with safety and fair competition and injury risk for patient and fellow participants.</p>

		<p>Discuss with stakeholders including Clean Sport and Anti-Doping organisations, to consider the implications of medical treatments for gender transition for clean sport and transgender individuals.</p> <p>Understand the barriers to transgender athlete participation and an awareness of strategies to enhance participation and access to sport.</p>
<p>Sex based categorisation in sport</p>	<p>The history of female participation in sport and the importance of and rationale for sex categorisation within most sports. Recognise the lack of sex categorisation in some sports.</p> <p>Differences between males and females with respect to the development of physical, physiological and other characteristics that impact on sport.</p> <p>Common conditions, collectively termed differences of sexual development (DSD). These include Congenital Adrenal Hyperplasia, Androgen Insensitivity Syndrome, Klinefelter and Turner syndrome. Know which experts to involve in their multi-disciplinary care.</p>	<p>Recognise and identify the challenges of methods used to test eligibility for the female category.</p> <p>Understand the impact that male/female differences, particularly from puberty, have on training and sports performance.</p> <p>Apply understanding of the differences between males and females when conducting or applying research within sport and exercise medicine.</p> <p>Consider current sex-based research inequalities when conducting research.</p> <p>An awareness of the medical, ethical and performance aspects of healthcare of athletes with DSD.</p>

	<p>The existing eligibility policies on sex categorisation in the major sports and those in which you work. This may include separate policies related to transgender athletes or those with DSD.</p> <p>The relevant legislation in this area, particularly relating to sex-based exemptions within equality legislation and the legal process of changing gender. Describe the difference between gender and sex and accurately use these terms in communication.</p> <p>The impact of female categories for females in sport.</p> <p>The barriers to female participation and the persisting inequalities between female and male athletes.</p>	<p>Apply this knowledge of performance characteristics, male/female development, medical aspects and legislation to contribute to discussions regarding fairness, safety and inclusion perspectives related to sex-based categorisation in sports.</p>
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Module 5: Specific health conditions

Subject Area	Knowledge Should be able to describe:	Skills Should be able to:
Mental Health & Wellbeing	<p>Risk factors for suicide and a safe process for asking about risk of suicide.</p> <p>Aspects of athletes' unique experiences that are relevant to risk to self-harm and suicide in sport.</p> <p>Common mood disorders and common precipitants for mental health disorders in athletes.</p> <p>Concepts of athletic identity and transition that arise in athletes at different stages of their sporting journeys.</p> <p>The relationship between injury and mental health and wellbeing.</p> <p>Harassment and abuse, the effects of trauma on mental health; outline key features of Post Traumatic Stress Disorder (PTSD).</p> <p>The relationship between sleep, sleep disorder and mental wellbeing.</p> <p>Typical presentation of Attention Deficit Hyperactivity Disorder (ADHD), including the process UK Anti-Doping (UKAD) use to grant a</p>	<p>Make a preliminary assessment of suicide risk and draw up a safety plan with an athlete in distress; collaborate with an athlete to include contingencies that reduce risk specific to the sporting environment (e.g. whilst away on tour).</p> <p>Make preliminary assessments of these issues; know which screening tests might be helpful to offer an athlete with low mood; be able to discuss some basic mood management strategies; know when to refer for specialist assessment.</p> <p>Discuss with an athlete in an informed way some of the key psychological issues related to injury, pain and mental ill health in athletes; know when to refer to a clinical psychologist or sports psychiatrist.</p> <p>Use safeguarding processes; know when to refer an athlete to a mental health practitioner following traumatic experiences.</p> <p>Offer advice about sleep hygiene; know when to refer for further</p>

	<p>Therapeutic Use Exemption (TUE).</p> <p>The range of substance use and behavioural disorders that arise in athletes; understand how these may present differently in professional sport; outline and understand common substances and behaviours involved; discuss the organisations and approaches that may offer help and support in their sport.</p> <p>Low energy availability, disordered eating, eating disorder and Relative Energy Deficiency in Sport (RED-S).</p> <p>Differences of competitive anxiety (and choking) from clinically significant presentations of anxiety such as panic disorder, social anxiety, generalised anxiety disorder.</p> <p>Concepts of psychological safety and mentally healthy team environments.</p>	<p>assessment; explain an outline of Cognitive Behavioural Therapy for Insomnia (CBT-I) principles for an athlete who might need referral for this.</p> <p>Show an awareness of the diagnostic requirements in athletes with ADHD and its relationship to TUE.</p> <p>Gain an athlete's confidence in this topic area; ask with sensitivity the key screening questions that relate to uncovering substance use problems and related behavioural disorders.</p> <p>Know which screening tests might be helpful in relation to food, body image and energy availability; know when and how to refer for specialist assessment.</p> <p>Know which screening tests might be helpful to offer an anxious athlete; be able to discuss some basic anxiety management strategies; know when to refer for specialist assessment.</p> <p>Notice power dynamics in teams; reflect on and notice mentally unhealthy or unsafe environments in teams; know when to whistle blow or intervene; use peers and other professional support to</p>
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		manage ethical dilemmas and challenges in sport.
Sports related concussion	<p>The basic anatomy of the skull, meninges and cerebrum.</p> <p>Concussion and the pathology of concussion, sub-concussive impact and head acceleration load.</p> <p>The epidemiology of concussion.</p> <p>Natural history of concussion including potential mechanisms, loss of consciousness and late presentations.</p> <p>Potential short-, medium- and long-term complications of concussion.</p> <p>National and international concussion consensus statements and guidelines; including Digital, Culture, Media and Sport Select Committee (DCMS), Amsterdam and National Institute for Health and Care Excellence (NICE).</p> <p>Preventative measures that may reduce the occurrence or severity of concussion. For example, neck strength, nutrition (creatine, omega 3 oils), protective equipment, law changes.</p> <p>The assessment of Head injury as the presenting complaint</p>	<p>Clear the cervical spine on field and in a training environment.</p> <p>Perform a pitch side and clinic room examination of the face and eye.</p> <p>Perform a SCAT assessment.</p> <p>Perform a VOMS assessment.</p> <p>Perform a SCOAT assessment.</p> <p>Design a GRTP for an adolescent athlete referring to current international guidelines.</p> <p>Design a GRTP for an adult athlete referring to current international guidelines.</p>

	<p>with concussion as a final diagnosis. e.g. the need to assess for concurrent facial fracture, cervical spine fracture, eye injury, extra-Dural haematoma, dental injury and laceration and avoid confirmation bias when assessing.</p> <p>On-field recognition and “if in doubt sit them out” approach</p> <p>Tools and tests to aid the clinical diagnosis of concussion. e.g. Sport Concussion Assessment Tool (SCAT), Sport Concussion Office Assessment Tool (SCOAT), Vestibular Ocular Motor Screening (VOMS) and Computerised Neurocognitive tests.</p> <p>Pre-hospital indications for transfer to hospital and CT scanning. e.g. NICE guidelines.</p> <p>Safety netting and the importance of early (written) advice post-diagnosis.</p> <p>An “Enhanced setting” for concussion management.</p> <p>Principals of concussion management, rehabilitation and the Graduated Return to Play (GRTP).</p> <p>Concussion modifiers and special groups e.g. Females, Adolescents.</p>	
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	<p>Definitions of persisting concussion symptoms and common causes.</p> <p>Clinic based advice for patients with persisting concussive symptoms.</p>	
<p>Principles of injury management and rehabilitation</p>	<p>Typical epidemiological injury patterns for common sports.</p> <p>Immediate injury management on the field of play and in the immediate post injury period.</p> <p>Red flags associated with any injury and indications for referral for emergency assessment in hospital.</p> <p>A range of common injuries in terms of structures involved, relevant local and distant anatomy and pathology of that injury.</p> <p>Principles and phases of the healing process with an emphasis on the first 2 weeks (Protection, Optimal Loading, Ice, Compression, Elevation (POLICE)).</p> <p>The multi-disciplinary team roles and functions in injury management.</p> <p>Indications for use of diagnostics throughout the post-injury and rehabilitation period.</p> <p>Principles of rehabilitation and able to relate rehabilitation/exercise</p>	<p>Observe and assess mechanism of injury and structures likely to be involved either through direct injury observation or on video replay.</p> <p>Draw up a rehabilitation plan in partnership with other health professionals and the injured athlete.</p> <p>Discuss with the athlete the nature of the injury, rehabilitation plan, estimated key milestones and safety netting and reasons to re-assess.</p> <p>Explore athlete ideas, concerns and expectations and satisfy these through education and explanation.</p> <p>Understand principles of patient confidentiality and consent within a team environment in relation to injury.</p> <p>Discuss with appropriate team non-medical colleagues the nature of the injury, plan, milestones and expected return to play.</p>

	<p>modalities/types to specific injuries.</p> <p>Principles of tissue load, adaptation to load and mechanotransduction.</p> <p>Principles of aerobic, anaerobic and strength training.</p> <p>The effect of psychosocial factors on injury management and recovery from injury.</p> <p>The place/value/evidence for adjunct therapies including but not limited to electrotherapy, mobilisations, hydrotherapy, shockwave.</p> <p>Indications and contra-indications for use of drugs in immediate post-injury period and during rehabilitation.</p> <p>The use and pros/cons of a variety of injection therapies during rehabilitation including but not limited to corticosteroid, Platelet Rich Plasma (PRP), viscosupplementation, prolotherapy.</p> <p>Indications for surgical treatment in injury management.</p> <p>Principles behind return to play decisions and risk management related to the evidence-base.</p>	<p>Know when and how to seek help, consult with peers where complex challenging problems.</p> <p>Discuss and refer an athlete to a hospital and/or consultant e.g. for emergency management or elective surgical consideration.</p> <p>Effectively communicate regarding injury prognosis and Return to Play (RTP) with an athlete and discuss appropriate supportive measures.</p> <p>Risk assess return to play taking into account all factors internal and external to the athlete.</p> <p>Explain pros/cons of return to play at any specific time to athletes and coaches and be part of an informed pragmatic decision from all parties.</p> <p>Document all assessments, opinions, discussions, and decisions in a suitable patient record.</p> <p>Audit injury patterns in your group of athletes, identify any recurring injury themes or causes and produce an injury prevention plan in partnership with relevant colleagues.</p>
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	<p>The nature and implications of career ending injuries for athletes.</p> <p>Current regulations around anti-doping matters when considering medication or injection therapy proposed in injury management. The current World Anti-Doping Agency (WADA) code and UKAD regulations.</p>	<p>Develop an injury prevention protocol for the team in association with colleagues.</p> <p>Explain to an athlete, coach or colleague how to gain further information regarding proposed medication as part of injury rehabilitation.</p>
<p>Performance threat management related to health conditions</p>	<p>The concept of performance threat management related to health conditions when managing an athlete or team.</p> <p>The complex interplay of all members of the medical team and coaching staff in managing performance threat.</p> <p>How common medical conditions will affect performance including, but not limited to:</p> <ul style="list-style-type: none"> • Asthma. • Diabetes. • ADHD. • Epilepsy. • Allergy and anaphylaxis. • Exercise induced Laryngeal obstruction (EILO). • Common viral infections including respiratory and gastrointestinal infections. 	<p>Design and lead an integrated Multi-disciplinary Team (MDT) approach to:</p> <ul style="list-style-type: none"> • Risk assessment • Implementation of mitigating actions • Review of performance threat management related to a specific medical condition prior to preseason training

<p>Effect of exercise on immune health, inflammation and recovery strategies</p>	<p>The basic effects of acute exercise on innate and adaptive immune function.</p> <p>Controversy surrounding the “open window” theory of intense exercise leading to temporary immunosuppression.</p> <p>What factors other than intense exercise affect immune function in team athletes e.g., travel, stress, sleep, exposure to novel pathogens.</p> <p>The long-term benefits of exercise on immune function.</p> <p>The basic principles of how exercise may reduce long term inflammation and hence reduce risk of cardiovascular and other disease.</p> <p>The various techniques, tools and principles behind recovery from exercise and its effectiveness including; DOMS, Perceived fatigue, Creatine Kinase and Inflammatory markers, Massage, Immersion, Compression, Cryotherapy and Active Recovery.</p> <p>The effects on athletic performance of sleep deprivation and recognising potential sleep disorders.</p> <p>The effects on athletic performance of sleep extension.</p>	<p>Design policy, recommendations and strategies to mitigate threats to immunity around periods of intense exercise, travel or competition.</p> <p>Reassure and educate ageing athletes and teams on the longer-term benefits of continued exercise and participation on immunity and cardiovascular health.</p> <p>Design multimodal MDT recovery strategies for an athlete/team around training, performance and travel dependant on resources.</p> <p>Design and implement a sleep strategy for an athlete/team taking in to account usual training diary, competition dates and travel including domestic and international.</p>
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	<p>The effects of travelling across time zones or latitude on sleep and performance.</p> <p>The basic principles of good sleep hygiene.</p>	
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Module 6: Duties of the medical team

Subject Area	Knowledge Should be able to describe:	Skills Should be able to:
<p>Anti—doping and effect of medication and supplementation on sports performance</p>	<p>Historical context of prohibited substance use in sport and development of national and international Anti-Doping strategies.</p> <p>Development and details of the World Anti-Doping Agency (WADA) prohibited list.</p> <p>How to carry out an assessment of the risk of medication use, both in and out of competition, in order to correctly identify prohibited use.</p> <p>Clean sport values and how support staff and athletes can raise concern and protect clean sport.</p> <p>Different types of Anti-Doping Rule Violations (ADRVs) and their potential consequences.</p> <p>Current UK Anti-Doping education strategy and courses for athletes and support staff.</p> <p>Principles of assessing need, assessing risk and assessing consequence related to supplement use.</p>	<p>Use Global Drug Reference Online (DRO) and Informed sport websites to assist in assessment of risk and advice on medication and supplement use to individuals in different sports – both in and out of competition.</p> <p>Identify when and how to apply for a Therapeutic Use Exemption (TUE) and specific requirements including Hay Fever, Asthma, Attention Deficit Hyperactivity Disorder (ADHD), Adrenaline auto-injectors, Diabetes and Glucocorticoids.</p> <p>Provide team based educational support related to Anti-Doping and supplement use.</p> <p>Advise and support an individual athlete on aspects of anti—doping and supplement use.</p> <p>Support an athlete through the Anti-Doping testing, doping control process and follow up in the event of an ADRV.</p> <p>Identify and advise an athlete on potential</p>

	<p>Supplements that may contribute towards optimum athletic health and performance.</p> <p>Dosing regimens, risks and side effects of non-prohibited performance enhancing supplements.</p> <p>Athletic performance impacts of prescribed medication and alternatives to commonly prescribed medication.</p>	<p>performance and adverse health impacts of prescribed medication, supplements and herbal remedies.</p>
<p>Travelling with a team</p>	<p>The process of planning medical requirements for a sporting competition overseas.</p> <p>Medical screening of travelling party & necessary insurance requirements.</p> <p>Requisition of appropriate medical supplies, medications & awareness of potential customs issues in appropriate country.</p> <p>Immunisation requirements and local disease prevalence.</p> <p>Time zone travel and recovery implications; including jet lag, travel fatigue and management of these issues.</p> <p>The process of emergency action planning including</p>	<p>Liaise prior to travel with local medical teams, healthcare facilities, emergency services and imaging facilities.</p> <p>Plan for hospitalisation of athletes or party members and repatriation.</p> <p>Recognise the planning implications for taking a team abroad including an advance reconnaissance trip and who should attend.</p> <p>Understand why medical screening of the travel party is so important and understand the process involved.</p> <p>Demonstrate understanding of insurance requirements – personal, medical and travel.</p>

	<p>hotel, training and match venues.</p>	<p>Source appropriate medications and operate a robust medicines management policy to enable travel overseas.</p> <p>Understand the customs requirements for travel with medicines and how they vary from country to country.</p> <p>Provide up-to-date immunisation advice to the whole travelling party well in advance of the proposed trip.</p> <p>Research and educate travelling party regarding indigenous diseases and local health risks of country travelling to.</p> <p>Have knowledge of risks to athlete of foreign travel, particularly regarding travel through time zones.</p> <p>Implications for training and recovery post-travel.</p> <p>Devise a specific programme to reduce the risks associated with jet lag in order to minimise disruption to the athlete and team.</p>
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<p>Event planning and preparation including field of play medical care</p>	<p>Risk assessment relating to the sport involved – frequency & severity of trauma, common injuries, number of competitors / potential casualties, size of field of play.</p>	<p>Identify high-risk sports requiring pitch side trauma support.</p> <p>Calculate minimum required medical staffing for sports grounds.</p>

	<p>Risk assessment relating to venue – accessibility of field of play, relative location to Emergency Department & Trauma centre, access routes for ambulance/helicopter.</p> <p>Risk assessment relating to environment – hazards (e.g. body of water), heat/humidity levels, altitude, air quality, infectious disease outbreak.</p> <p>Considerations for medical team staff planning (Green Guide) – number required, role & skill mix, qualifications & experience levels, methods of communication.</p> <p>The importance of not overburdening local NHS services.</p> <p>The role of pre-event information sharing, team briefing & emergency scenario practice.</p> <p>Medical supply requirements – facilities, diagnostics, Automated External Defibrillator (AED), oxygen, Personal protective equipment (PPE), trauma bag contents, emergency medications, number of kits.</p> <p>Maintenance, storage & regulations relating to</p>	<p>Create risk assessment & emergency action plan for venue and sporting event.</p> <p>Establish minimum standards of medical equipment required for a sporting event.</p> <p>Identify risk and develop strategies to prevent and manage heat illness.</p> <p>Appropriately assess, manage and refer the following:</p> <ul style="list-style-type: none"> • Dental injuries sustained on the field of play. • Skin wounds sustained on the field of play.
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	<p>emergency equipment & medication.</p> <p>Methods & medicolegal regulations for medical record keeping at & post-event.</p> <p>The role of pre-event screening & medical histories (SAMPLE).</p> <p>The role of medical policy for large events – emergency action plans, infectious diseases, major incident plan.</p> <p>The role of post-event reflection & debrief.</p>	
<p>Athlete monitoring, profiling and screening for health and performance</p>	<p>The principles of athlete monitoring, profiling and screening.</p> <p>Common injuries and medical conditions affecting athletes and evidence based profiling and preventative strategies.</p> <p>The ethical and legal considerations associated with sport team care.</p> <p>Governing body standards and frameworks around monitoring and screening.</p> <p>The ethical and legal considerations associated with providing medical care to athletes.</p>	<p>Develop and implement athlete monitoring and profiling programs that may help to optimise health and performance.</p> <p>Conduct medical screening and assessment for athletes.</p> <p>Provide emergency medical care and injury management on and off the field.</p> <p>Demonstrate different techniques for measuring physical fitness and performance.</p> <p>Demonstrate methods for monitoring training load and recovery.</p>

		<p>Demonstrate strategies for developing athlete profiles and managing injuries.</p> <p>Demonstrate techniques for conducting medical screening and assessment.</p> <p>Have the ability to use diagnostic tools and imaging technology in the assessment of an athlete.</p> <p>Collaborate with other healthcare professionals in the data collection and management of profiling, screening and performance.</p>
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