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EMERGING TECHNOLOGY TO ENHANCE THE SKILLS IN ATHLETE

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Abstract:

Recent trends in sports activities era have created plenty of merchandise to decorate and boom athletic overall performance. In reality, era performs a prime function in current motor game, which turning into a vital a part of positive sports activities, and being utilized in different sports activities to decorate results. In contemporary-day lifestyles generation is substantially helped in making lifestyles clean and nicely used. Technological advances have substantially affected recreation technological know-how and different good-sized regions of lifestyles. As the game industry's marketplace has elevated along popularity, technological examine call for has increased. These scholarly qualitative studies frequently aimed to analyze the impact of latest technology on recreation overall performance. The dialogue of various technological gadgets additionally specializes in the position of positive video games and sports activities. In this systematic qualitative examine an intensive online and offline seek system has been implemented for the purchase of evidence. Present researcher unearths some of technological gadgets now being applied with inside the subject of video games and sports activities. Researcher agreed that those technological gadgets growth the overall performance rating and make the sport easier. In order to broaden overall performance, accurate selection ought to be had to select the suitable generation as with inside the gift international dealing with and coping with participant is a hard task. Lastly, Researcher additionally believed that a huge variety of systematic opinions may want to extra as it should be spotlighting the technological gadgets on recreation overall performance.

Keywords: *Skills in Athlete, Sports Activities, Motor Game, Technological Gadgets.*

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Introduction:

Technology now no longer simplest lets in the athlete however additionally lets in the device to make sure most suitable overall performance and decrease the danger of injury. Hence, because the overall performance fee increases, the call for for sports activities ought to boom. In current training the current technology used withinside the gift sports activities global ought to be acknowledged via way of means of the coaches and bodily educators. Today's recreation international is turning into technologically superior via way of means of combining herbal athletic skills with superior analytics and synthetic wise to supply the exceptional viable wearing outcomes. In such a lot of approaches contemporary-day generation simplifies lifestyles and anybody defines generation of their personal manner. Throughout today's environment, in which pretty much whatever is extra cushy and to be had due to technical improvements in almost each place of lifestyle. Everything withinside the international has each fine and bad influences on each the dwelling and society. In the twenty first century, extra human beings take part in sports activities than ever before. Due to the needs of sports activities overall performance from spectator the technological devises now take extensive position.

Sports and Fitness:

The preceding U.N Secretary-General Kofi Annan stated recreation has grow to be basically a not unusual place

language, setting residents collectively no matter their roots, history, non-secular values or monetary status. Actually, sports activities make friendship every different and bonding every different now no longer most effective for one united states however additionally for complete international. The distinction among prevailing and dropping video games is regularly observed in lots of sports activities and video games, and in step-via way of means of-step crew moves. As the sports activities industry's target market has grown along popularity, call for studies has increased. This is now above sports activities and gaming and now one thousand million greenback business. Researchers Roy et al. (2017) argued that during many elements new generation simplifies life and every describes generation of their personal manner. In today's international, pretty much the whole lot is extra handy and available due to technological advances throughout nearly each factor of lifestyle. Most human being's lives had been more suitable and simplified via way of means of the modern-day technological developments. Although the actual nature of recreation is living with inside the talent of proficient athletes, their overall performance may be dramatically advanced via way of means of incorporating superior technology, ensuring aggressive play and a success outcome. Therefore, generation has the significant ability to enhance overall performance and decrease the sports activities injury. In addition, it's improbable how generation has impacted recreation. Using wearable generation, large



statistics analytics, social media, and sensor generation has revolutionized the manner sports activities are played, analyzed, and more suitable in today's related international. Pro athletes can benefit extra perception into their overall performance, enhance schooling strategies and lift their capabilities via numerous contemporary-day advances and apps.

Literature Review:

Human-Centered Computing (HCC) places the customers on the middle of layout and improvement. HCC is an interdisciplinary subject that intersects laptop technological know-how, psychology, and cognitive technological know-how. HCC specializes in the layout and implementation of computing structures that help human being's sports and human improvement. It is the technological know-how of designing computations and computational artifacts in help of human endeavors (Jaimes, Sebi, & Gatica-Perez, 2006).

The National Science Foundation (NSF) identifies the developments of HCC studies as "a 3-dimensional area comprising human, laptop, and environment." The NSF describes the human measurement as studies that helps person needs, via groups as goal-orientated groups, to society as an unstructured series of related human beings (NSF, 2016). HCC is centered on know-how how computational technology have an effect on society and the way to cause them to extra usable (University of Florida, 2016). This description of the human measurement

is akin to the athlete improvement literacies described via way of means of Laboratory for Athletes and Athletic Development and Research (LAADR) withinside the regions of recreation overall performance, lifestyles for the duration of sports activities, and lifestyles after sports activities. Placing the athletes on the middle of layout lets in for technological answers to be evolved especially for the athlete.

Aim of the Study:

The specific aim of this scholarly qualitative study was to explore the impact of modern technology on sports performance.

Methodology:

A thorough on-line and offline search procedure was applied for the acquisition of evidence in this systematic qualitative study. A critical analysis of the literature was systematically searched through online databases: PubMed, Google Scholar, and Google Advance Search.

Integrated era (IT), is consists of accelerometers, international positioning structures (GPSs), and coronary heart price monitoring, has been often used with inside the public fitness sector. More recently, IT records has been used to evaluate education and overall performance needs in sports activities settings. Integrated technology will result in important adjustments with inside the regions of field based aggressive sports activities planning, conditioning and rehabilitation. Technologies like CAD (Computer-aided design) can play a critical



function in enhancing sports activities system. Other technology consisting of “smart” system may be used for overall performance assessments. Examples of “smart” era improvements consist of structures used for exercising depth evaluation and cardio size, human reaction time and interest meter size, and structures with leaping and going for walks characteristics. On the opposite hand in cricket sport warm Spot era could be very correct and is the appropriate device for studying a raider’s touches in Kabaddi action. Hot Spot era, even though reportedly extraordinarily correct, isn’t used with inside the Kabaddi game to date. Previous researchers argued that a aggregate of GPS-accelerometer size technology and accompanying video facts that offer extra perception into the dedication and categorization of sustained effect forces and accelerations in the course of the normal and sundry Super 15 Rugby Union match-play touch elements.

Snick-o-Meter:

The Snick-o-meter identifies whether or not a snick occurred. A snick whilst the cricket ball comes in touch with the bat is a nice noise. That is expressed withinside the captured audio sound-waves. There is frequently confusion approximately whether or not the ball has made touch with the bat, or a batsman’s gear.

Wearable GPS era:

Global Positioning System era has been applied for a while in aggressive game,

which include in practice sporting activities in addition to in the course of play. By the usage of Electronic Performance and Tracking System (EPTS) gadgets, groups can tune the motion of gamers on the pitch and accumulate huge quantities of records approximately their overall performance. In 2006 the primary tries to affirm GPS for discipline game programs had been made. Although GPS has been licensed for aggressive sports activities sports, a few questions stay concerning the suitability of GPS for monitoring rapid high-speed runs. Consequently, GPS has been usually utilized in American football, baseball, basketball, rugby union and league and soccer. GPS performance in comparing human locomotion is tormented by unique elements as described for validity in element above. That is, pattern price, speed, project duration, and project kind every in phrases of GPS reliability. The GPS is a monitoring tool that accesses the GPS satellite tv for pc signal (or comparable satellite tv for pc networks consisting of GLONASS, GNSS, BDS or NAVIC) to triangulate its very own position.

Modern track and field events using technology:

Track and discipline varies from maximum different disciplines, as its miles measured in meters and seconds simplest. Within tune, a fragment of a 2nd could make all of the difference. Which is why the system which tracks tune and discipline race information must be as dependable as particular as practicable. An digital



beginning pistol is any other innovation used to enhance tune occasion startups. In addition, whilst the runner begins, they'll observe their development the usage of Radio-Frequency Identification (RFID) chips. These chips are so precious that during trendy they have got come to be popular. RFID chips can be bandaged to shoes to reveal the pace, distance and sample of a runner.

The unmanned drone era with an embedded digital digicam facilitates to take super snap shots and motion pictures from height. A Drone is simply, in easy phrases, a flying robot. This plane is normally managed from a specialized far-flung control, and with the assist of shrewd software program can tune all matters withinside the air. Many athletes (runners, basketball gamers, skiers, climbers, etc.) are the usage of drones to reveal their practice to peer whether or not any adjustments may be created. A moderate development in non-public fine time for the competitor will take off seconds or smash a 2nd. Nowadays a sports activities occasion has been greater real and realistic to air. The predominant benefit of the usage of drones or unmanned plane in critical global sports activities is their being capable of get in the direction of global athletes. Drone will seize and compare a sincerely visible exercise consultation in diverse athletic sports after the consultation is finished.

Aerodynamics:

While without a doubt any game will be used to demonstrate this new function of

high-tech tennis, fencing, swimming, golf, and cycling – is a superb example. In the twenty first century, global-elegance tennis gamers (and their coaches and trainers) could have a clean understanding of the legal guidelines of aerodynamics in an effort to absolutely draw close the game and obtain a bonus over opponents. Therefore, whilst engineer broaden technological gadgets for sports activities, they have got to research the real aerodynamics of the respective video games and sports activities.

Results:

The concept that athletes have the capability to compete in opposition to every different on an identical foundation is a critical a part of all game. We see withinside the information all-maximum weekly approximately wearing scandals in which pinnacle athletes are accused of cheating. Because remedy and era are advancing so rapid sports activities governing our bodies aren't capable of preserve up with the brand-new strategies of education and rehabilitation to create standards. Because there are such a lot of approaches that athletes can benefit a bonus it creates a massive hassle withinside the wearing global.

Conclusion:

Recent trends in sports activities era have created plenty of merchandise to decorate and boom athletic overall performance. In reality, era performs a prime function in current motor game, which turning into an vital a part of positive sports



activities, and being utilized in different sports activities to decorate results. Technology now no longer simplest lets in the athlete however additionally lets in the device to make sure most suitable overall performance and decrease the danger of injury. Hence, because the overall performance fee increases, the call for for sports activities ought to boom. In current training the current technology used withinside the gift sports activities global ought to be acknowledged via way of means of the coaches and bodily educators.

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