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### Keyword: Zachary Dupin

#### 10-60 Word Biographies

##### 1. Zachary Dupin: Molecular Biology

Zachary Dupin, like other dedicated medical students, has a particular interest in the study of molecular biology. This particular field of scientific study involves the examination of biology at a molecular level, looking specifically at cell structure and the formation of genetics. This field focuses on the interactions between cell systems and attempts to determine how molecules control a cell's growth and actions.

##### 2. Zachary Dupin: Emergency Medicine

Emergency rooms are often hectic, tumultuous places; Zachary Dupin, a medical student who has experience working in this environment, has used his empathy for others, his communication skills, and his medical knowledge to make the emergency room environment less overwhelming for stressed patients. Physicians in emergency departments often have to prioritize incoming patients according to their injuries, and afterwards, they must document all patient cases.

##### 3. Zachary Dupin: Careers in Medical Research

Zachary Dupin and other medical students who are interested in medical research may choose to pursue a career field in research. The allure of being at the forefront of new medicines or cures for diseases had made the medical research field one of the fastest growing careers in medicine. Non-tenure and tenure-track research paths also exist for those doctors who wish to combine their love of research with their desire to teach future generations of doctors.



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### **4. Zachary Dupin: University of Nevada at Reno School of Medicine**

Many students who want to be physicians, like Zachary Dupin, choose the medical research program at the University of Nevada School of Medicine at Reno to pursue their dreams. With \$60 million in NIH research grants, the school performs research to study causes and treatments for various illnesses and diseases, such as cancer, HIV, and muscular dystrophy. UNV at Reno has also earned the esteemed IDeA Network of Biomedical Research Excellence grant.

### **5. Zachary Dupin: Plastic Surgery**

Zachary Dupin has learned through his studies that the study of plastic surgery offers multiple opportunities to those interested in an exciting and inspiring field. Plastic surgeons may start a private practice, go into teaching at universities, or even dedicate their careers to academic research alone. These doctors may decide to specialize in surgery that helps remedy genetic or traumatic issues, or they may focus on aesthetic and cosmetic surgeries.

### **6. Zachary Dupin: Clinical Skills**

While developing vital clinical skills, students like Zachary Dupin learn different interview approaches to patient treatments and diagnoses. They discuss the personal and professional components of being a doctor with small groups of other students and clinical faculty. There are a series of studies on various clinical skills that students must successfully complete over their four year undergraduate program, including interviewing patients and handling physical issues and diagnoses for critically ill patients.

### **7. Zachary Dupin: Orthopedic Medicine**

Orthopedic study is an attractive field of medicine for passionate students like Zachary Dupin. Orthopedic studies and surgery deals with various diseases and injuries associated with the body's musculoskeletal system, which is made up of ligaments, muscles, nerves, joints, bones, and tendons. Orthopedic surgeons help patients of every age and type, from children with spine deformities to elderly patients with arthritis.



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### **8. Zachary Dupin: Psychology in Medicine**

For medical students like Zachary Dupin, the profound link between physical health and psychological health is a necessary part of medical training. Psychology is a medical study based on peer review and evidence-based research and is necessary to understand the mental and physical aspects of humanity. Clear communication is the top necessity for a doctor's effective skills. Delivering life-changing and possible demoralizing information to a patient can be done far more effectively if the doctor has a full understanding of the patient's mental health.

### **9. Zachary Dupin: Orthopedics and Sports Medicine**

Zachary Dupin has, like many other medical students, evinced a serious interest in orthopedics and sports medicine where attention is given to the musculoskeletal system (bones, tissues, muscle) that are prone to injury and damage. This field of study covers a wide range of patients, from those who are generally active, to those who need physical rehabilitation, as well as professional and collegiate athletes.

### **10. Zachary Dupin: Sports Medicine Specialist**

Zachary Dupin, a medical student with an interest in sports medicine, has considered becoming a sports medicine specialist. Physicians with extensive experience and specialized training in the prevention and treatment of illness and injury can attain this position. The doctor's main responsibility is to assist patients in diagnosing and treating their injuries so that they can return to normal activities

## **12-250 Word Blog Posts**

### **1. Zachary Dupin: Molecular Biology**

Many accomplished medical students, like Zachary Dupin, have found the study of molecular biology of particular interest. Molecular biology is the study of biology at a molecular level that meshes with other areas of medical study, specifically biochemistry and genetics. This field focuses on the interactions



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between cells systems, especially protein synthesis, DNA, and RNA, and how molecules control a cell's growth and actions.

Although this sector of biology was once very separate from other scientific fields, molecular biology has increasingly been combined with biochemistry and genetics. A part of molecular biology is dedicated to examining genetic material, specifically its replication, translation, and transcription. A simple but effective starting point for understanding molecular biology is to view it as the study of genetic material that is copied into RNA, and then translated into protein. Of increasing importance in this scientific field is its overlap with computer sciences like bioinformatics and computational biology.

As a dedicated student with research and medical volunteer experience, Zachary Dupin has, like other students who desire to become physicians, devoted a significant amount of time to studying molecular biology. This includes being exposed to cutting edge research in the field, working to find answers to these types of concerns: the control of gene expression, the genetics of behavior, cell fate determination, control of the cell cycle, and protein synthesis, amongst other issues. Current medical students like Dupin also have the opportunity to use the best technological and medical techniques available, like X-ray diffraction and confocal and electron scanning microscopy.

Sources: [https://www.sciencedaily.com/terms/molecular\\_biology.htm](https://www.sciencedaily.com/terms/molecular_biology.htm)

<https://www.coriell.org/research-services/molecular-biology/what-is-molecular-biology>

<https://www.brown.edu/academics/biology/molecular-cell-biochemistry/>

## **2. Zachary Dupin: Emergency Medicine**

Many medical students know that emergency rooms can be stressful, chaotic places at all times of day; dedicated students like Zachary Dupin, who has experience working in this environment, have learned to use their communication skills, medical knowledge, and empathy for others to make the emergency room environment less overwhelming for panicked patients.



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It's important for physicians, nurses, and student volunteers to assess the seriousness of incoming cases, using the process of triage to decide the patients who need to be seen first. Doctors must examine the patient, devise a medical history, order tests to be taken, make diagnoses, and determine whether a patient should be admitted to the hospital or sent home. For emergency department physicians, the lengthy shifts --- from eight to ten to twelve hours --- and the number of patients they may see within this time frame, require that the physicians have the mental and physical stamina to approach their jobs with clarity and a calm demeanor.

Zachary Dupin and other medical students who have watched and helped physicians at work in emergency departments have also had the chance to witness those same doctors when they perform in tense, speed-fueled situations. Patients in great distress may take specific steps to stabilize a patient, such as resuscitation or beginning an intravenous line. In situations less life-threatening, physicians may need to reset broken bones or treat lacerations in the emergency department. Lastly, doctors must document each case. This can be very time-consuming in an already demanding and time-pressed department, and nurses as well as student volunteers can be of great assistance when filing this necessary paperwork.

Source: [http://explorehealthcareers.org/en/Career/158/Emergency\\_Medicine](http://explorehealthcareers.org/en/Career/158/Emergency_Medicine)

### **3. Zachary Dupin: Medical Research and Careers**

Zachary Dupin, alongside other committed medical students, has had extensive experience in medical research and understanding the necessity of this research to the field of medicine. Research, and the journals written about case studies, findings, successes, and failures, are vital to the advancement of medicine in modern times.

Medical students learn the purpose behind research early on in their undergraduate work. They also learn to critically read, understand, accept, and challenge the information they either read or determine via their own research studies. Some important questions to consider are: who paid for the research? Where was the research done? How large was the study? If new treatments were being tested, were there any side effects? Was the research done on animals or humans?



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Medical students like Zachary Dupin who have experience in or are interested in medical research can also consider it as a career field in medicine. Exploring new boundaries in medicine and discovering potential cures can be a significant amount of motivation for students interested in medicine. Physicians can dedicated their careers entirely to research, or may consider a combination of research, administrative work, and teaching. Specifically in higher education, there are numerous non-tenure and tenure-track research paths for those doctors who wish to do research and also teach the next generation of physicians. For those doctors interested in this type of educational research, many universities offer funding and training for M.D. and M.D./Ph.D. students. In the field of medical research, economists predict significant job growth on a faster than average rate through 2020.

Source: <https://www.nlm.nih.gov/medlineplus/understandingmedicalresearch.html#cat79>

<https://www.aamc.org/cim/career/practice/research/>

<https://bigfuture.collegeboard.org/careers/science-medical-scientists>

#### **4. Zachary Dupin: Medical Research at University of Nevada at Reno**

The medical research program at the University of Nevada School of Medicine at Reno is home to many devoted, passionate medical students, like Zachary Dupin. As a school with a renowned medical program, UNV at Reno receives approximately \$60 million in multi-year research grants from the National Institute of Health.

The University of Nevada School of Medicine at Reno uses their NIH research grants to full use in the medical research field. The studies focus on causes and treatments for illnesses and diseases, such as infectious disease, cancer, HIV, gastrointestinal disorders, battlefield injuries, and muscular dystrophy. The school has earned the only IDeA Network of Biomedical Research Excellence grant.

Founded in 1969, the University of Nevada School of Medicine originated as a two year school for primary care physicians; it now offers degrees in medicine and clinical sciences, amongst other programs. Until 2016, students would complete their first two years of basic science courses at Reno, then move to the Las Vegas campus to complete their degree; now, students many stay at Reno for all



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four years of their undergraduate work. The majority of third and fourth years will be spent in clinics and hospitals throughout Nevada. The school accepts around 70 students a year, and offers the following degrees: Doctor of Medicine; Master's and Ph.D. in Biochemistry, Cell Biology, and Physiology, Microbiology, and Pharmacology; Master's in Physician Assisted Studies; Bachelor of Science, Master's, and Ph.D. in Speech Pathology and Audiology.

Zachary Dupin and his fellow students are studying at one of the top medical schools in the nation, and with the opportunities and experiences given to them at UNV at Reno, they will be important contributors to the medical field in the future.

Source: <http://medicine.nevada.edu>

### **5. Zachary Dupin: Clinical Medicine**

For medical students like Zachary Dupin, developing clinical skills is a necessity on the road to becoming a physician. The study and perfection of clinical skills and reasoning occurs throughout the four years of study; often students will meet in small groups with clinical faculty to practice and prepare for a major foundation of the medical field.

In the course of developing clinical skills, students will learn how to apply different interview approaches to patient diagnoses and treatment. They will also discuss the personal and professional components of being a doctor; this group work and discussion helps the student become comfortable working with professionals and colleagues in a medical environment.

Clinical reasoning skills are another necessary aspect in the process of becoming a doctor. These abilities provide vital skills and knowledge that students need for future clerkship positions and future practice as a doctor. Interviewing, problem-solving, and physical exam skills are developed in this part of a student's education. There are a few different phases of the clinical reasoning program that students need to successfully complete, including: an apprenticeship program, integration sessions, interviewing, physical diagnosis, simulated clinical experience, and informatics sessions.



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Zachary Dupin and other students dedicated to the study of medicine will benefit significantly from learning the basic fundamentals of clinical skills, which can include personal and technological skills. Future doctors will need to complete procedures on critically ill patients, like IV placement or resuscitation; they must train on simulated models to prepare for reality. Practice in this fashion also helps students to improve their communication skills, administrative skills, and physical exam skills.

Source: <http://smhs.gwu.edu/academics/md-program/curriculum/clinical-skills-and-professional-development>

### **6. Zachary Dupin: Plastic Surgery**

Plastic surgery applies to the surgical reconstruction, replacement, or repair of an external body part. Budding medical students, like Zachary Dupin, receive some initial training in plastic surgery during their undergraduate studies, and can explore it further as a career in graduate school. Often, plastic surgery is associated with aesthetic desires and purposes, but it can also be a necessity for a patient to feel accepted within a community through the removal of a traumatic, congenital, or acquired deformity.

The field of plastic surgery can go far beyond the realm of the cosmetic. Many doctors become plastic surgeons to assist people in various areas. For example, hand surgeons and burn surgeons use their talents and abilities to try to make life better for their patients. Microvascular surgeons can transfer tissue from one part of the body to another to generate tissue circulation. Cranio-maxillofacial surgeons repair physical abnormalities like cleft palates.

As Zachary Dupin and other medical students have learned, the field of plastic surgery offers multiple opportunities to those interested in a frequently changing and challenging field. Plastic surgeons can move into academia or private practice, or even dedicate their careers on academic research alone. Some plastic surgeons may focus on trauma cases while others may choose to deal strictly with elective, cosmetic surgeries. The main motivation for both groups of doctors is impact they can have on one person's life because of their abilities. Plastic surgeons have the ability to give life back to someone who has suffered trauma, genetic misfortune, or illness.





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Source: <https://www.facs.org/education/resources/residency-search/specialties/plastic>

### **7. Zachary Dupin: General Surgery**

Zachary Dupin and other dedicated, talented medical students, will be exposed to the concepts of general surgery throughout their graduate school programs as they work to become physicians. In order to be qualified for general surgery, a doctor must have a wide array of knowledge of many diseases and illnesses, although this will vary by disease category to some extent.

In the majority of cases that a physician faces, he will be expected to correctly diagnose and treat the disease in question. For cases that are more difficult to determine, the doctor should still be able to identify and treat select groups of conditions within a disease. In the field of general surgery, the physician is expected to operate and perform procedures in these areas: vascular surgery, trauma and burn surgery, head and neck surgery, alimentary tract, pediatric surgery, surgical critical care, endocrine system, breast and skin surgery, and abdomen surgery. Some of these areas, like pediatric and vascular surgery, require additional training to gain a fuller understanding of the issues at hand.

Dedicated medical students like Zachary Dupin are aware of the importance of learning the skills associated with general surgery in order to become an effective physician. Mastering general surgery means having technical proficiency in key surgical procedures, having clinical knowledge of anatomy, pathology, and physiology; knowledge of anesthesia and minimally invasive surgery; knowledge of wound healing and infection; knowledge of shock and resuscitation; experience and skill in core areas like clinical evaluation and management; and experience in pre-operative, operative, and post-operative situations.

Source: <http://www.absurgery.org/default.jsp?aboutsurgerydefined>

### **8. Zachary Dupin: Orthopedic Medicine**

Orthopedic studies and surgery deals with various diseases and injuries associated with the body's musculoskeletal system, which makes it an attractive field for enthusiastic medical students like Zachary Dupin. The musculoskeletal system is comprised of ligaments, joints, bones, muscles, nerves, and



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tendons. Orthopedic surgeons cater to all patients of every age and type, from children with limb deformities to elderly patients with arthritis.

Orthopedic surgeons have high levels of education to conquer, as well as many years of requirements to fulfill. The education requirements for this position include: four years of study in a university, four years of study in medical school, five years in orthopedic residency at a reputable medical center, and one optional year of specialized education. An orthopedic surgeon's job covers the categories of diagnosis, treatment, rehabilitation, and prevention. The doctor must also own a licensed practice and have passed the written and oral examinations given by the American Board of Orthopedic Surgery. It is necessary for every orthopedic surgeon to stay current on new advanced in this field of medicine.

Zachary Dupin, like other medical students, has found an interest in orthopedics, in part because of the wide range of material that it covers. There are specializations that a doctor might choose to focus on, like the knees, ankle, foot, and spine. For treatment of orthopedic injuries, rehabilitation is often a path assigned before surgery is considered. A combination of exercise, medication, and alternative therapies may help so effectively that surgery is not necessary at all.

Source: <http://orthoinfo.aaos.org/topic.cfm?topic=a00099>

### **9. Zachary Dupin: Psychology in Medicine**

Medical students like Zachary Dupin learn about the intimate link between physical health and psychological health in their studies and practices. Psychology is a medical study based on peer review and evidence-based research. Despite being generally viewed as a "soft" science in the medical community, psychology is necessary to understand the link between the mental and physical aspects of humanity.

Understanding the psychology behind a patient's decisions and actions can help a physician better determine the proper methods and practices to lead the patient to more positive mental and physical health. Medical schools worldwide have recognized the importance of making sure all future doctors are trained on psychological issues. This is important because of the preventative care value that psychology represents, especially with psychological evaluation and treatment, because patients who are given



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preventative psychological care exhibit better outcomes with less risk of complications and lower costs associated with their health.

Through university classes and hands-on experience, Zachary Dupin and other intelligent medical students have learned to recognize the important role that psychology plays in human health. While many skills are needed on the part of the physician, none is as important in psychology as effective, clear communication. Life-changing information needs to be presented to patients as clearly as possible, and even in less serious situations, a doctor who understands a patient's mental health can figure out the best way to share important medical information and results with them. Aside from communicating medical outcomes, clear communication is also needed to continue to promote clients' positive health.

Source: <https://www.brainscape.com/blog/2015/06/why-psychology-matters-in-medicine/>

### **10. Zachary Dupin: Orthopedics and Sports Medicine**

Many medical students like Zachary Dupin have expressed a significant interest in a burgeoning medical field: orthopedics and sports medicine. In this area of medicine, special focus is given to the musculoskeletal system (bones, tissues, muscle) that are prone to injury and damage. Although often catering to professional and collegiate athletes, this field of study also applies to average individuals who are active, and patients who need physical rehabilitation.

In orthopedics and sports medicine, injuries are the primary focus can range from issues like tendinitis; trauma care; bone, joint, and muscle injuries; recreational injuries; musculoskeletal pain; bursitis; arthritis and osteoarthritis. Specialty areas can include the hands and wrists, legs, spine, arms, knees, and hips. Injuries can be identified and treated after initial testing using comprehensive imaging and diagnostic techniques. The results are used by the physician to determine the best course of treatment to address the patient's concerns.

Zachary Dupin and other medical students who are interested in this field of study have received extensive training, both in the classroom and in hospitals and clinics, to best understand the diagnostic procedures used to assess a patient's results. Some of these methods include: bone scans, x-rays, physical examination, electromyogram (EMG), magnetic resonance imaging (MRI), arthrography, and computed tomography. After determining a patient's condition and course of recovery, doctors may



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recommend other aspects of medicine in combination with rehabilitation, such as chiropractic care, interventional pain management (steroid injections and nerve blocks), and immobilization. Orthopedic surgery for sports-related injuries is also a viable option depending on the extent of a patient's condition.

Source: <http://www.uhs.net/care-treatment/orthopedic-services/>

### **11. Zachary Dupin: Sports Medicine Specialist**

Some medical students who are interested in sports medicine, like Zachary Dupin, may want to consider becoming a sports medicine specialist as a career. This position is given to a physician with extensive experience and specialized training in the prevention and treatment of illness and injury. The purpose of the physician's job is to assist patients in diagnosing and treating their condition so that they can return to their normal activities as quickly and safely as possible.

The requirements needed to be a sports medicine specialist are extensive. A sports medicine specialist needs to be board certified in these medicines: family, emergency, pediatrics, internal, and physical/rehabilitation. He must also have completed at least one year of additional training in sports medicine through an accredited program. The physician needs to have passed a national Sports Medicine certification exam and hold a Certificate of Added Qualification in Sports Medicine. Regular continuing education is a must for a physician in this position, and being a leader of a Sports Medicine team, comprised of specialty surgeons, physicians, and trainers, is also a necessity.

Zachary Dupin and other devoted medical students have learned the difference between a sports medicine specialist and an orthopedic and sports medicine physician. A sports medicine specialist focuses on non-operative treatment of musculoskeletal conditions, as around 90% of all injuries do not require surgery. This physician can recommend appropriate therapies and rehabilitation to his patients, and if necessary, can refer them to orthopedic surgeons. Total training for the sports medicine specialist ranges from 12 – 13 years, and a doctor can expect to log over 23,000 hours of medical school and residency hours.

Source: <https://www.amssm.org/Content/pdf%20files/WhatIsSMSpec-Patient-broch.pdf>



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### 12. Zachary Dupin: Emergency Room Volunteer

Like Zachary Dupin, many medical students gain valuable experience volunteering in emergency rooms. Although not tasked with handling surgical situations, volunteers provide important assistance to doctors, nurses, and staff in a hectic and chaotic environment while learning how an emergency department operates in many different conditions.

Emergency room volunteers are primarily asked to be of assistance to patients and are under the nurses' supervision. Volunteers often help the nursing staff by providing physical assistance to patients, and by being compassionate, warm, and empathetic to patients who are in very stressful and trying circumstances. As a matter of confidentiality, volunteers must keep patients' records and communications (oral or written), private and exposed only to the patients and health care providers. This step can only occur with patient consent. Some general duties associated with volunteering in an emergency department are: explaining the registration and admission process to patients and their families; calling local hospitals; locating nurses and technicians; getting information back to families as instructed; helping the screening nurse; and reporting anything of an odd nature to staff.

Medical students with extensive volunteer experience in an emergency room, like Zachary Dupin, know the purpose of their job: to be a friendly, compassionate liaison between the emergency department, the patient, and the patient's family. Other duties that the volunteer is responsible for include transporting patients to and from x-rays in wheelchairs or stretchers, placing patients in rooms when instructed, be available at the nursing unit to take answer questions and oversee traffic flow, and assist patients in locating the departments they need to find, such as cashier, pharmacy, and lavatories.

Source:

[http://icahn.mssm.edu/static\\_files/MSSM/Files/Departments/Emergency%20Medicine/Manual/SUB19\\_11.pdf](http://icahn.mssm.edu/static_files/MSSM/Files/Departments/Emergency%20Medicine/Manual/SUB19_11.pdf)



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### 1-400 Word PDF Content for Document sharing sites

#### 1. Zachary Dupin: Valuable Experience Volunteering in an Emergency Room

Medical students often look to gain valuable volunteer experience, and students like Zachary Dupin, have found that meaningful experience in emergency rooms. These volunteers provide important assistance to doctors, nurses, and staff all while operating calmly in a chaotic and tumultuous environment. Volunteers also have the opportunity to observe how the multiple sectors of an emergency department operate under a variety of conditions.

The primary task of emergency room volunteers is to be of assistance to patients. Volunteers are under the nurses' immediate supervision. Main responsibilities entail assisting the nursing staff by exhibiting compassion, warmth, and empathy to patients who are in pain and frightened. Volunteers may also need to provide physical assistance to patients. Due to confidentiality laws, all volunteers must keep patients' records and communications (oral or written), private and shared only with the patients themselves and health care providers. Other general duties associated with volunteering in an emergency department are: getting information back to families as instructed; helping the screening nurse; reporting anything unusual to staff; explaining the registration and admission process to patients and their families; calling local hospitals; and locating nurses and technicians.

There are also a number of miscellaneous duties assigned to emergency room volunteers. Performing various errands would be one of these duties. Volunteers maybe required to run errands outside of the unit, or may need to deliver messages so that the staff's workload is not overburdened with small concerns that take away from their larger responsibility: the patients and the work required to process the patients and address their needs as quickly as possible. Volunteers often search for and relocate emergency department equipment to the department and assist the emergency department personnel in any way they require. Sometimes volunteers may be asked to assist in play activities for children. Volunteers must always be dressed in their volunteer uniform and wear identification at all times in the emergency department.

Zachary Dupin, like other medical students with extensive volunteer experience in an emergency room, knows the key personality characteristics needed to be successful at this job: friendliness and



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compassion. The volunteer is the connecting factor between, the patient, the patient's family, and the emergency department. Volunteers are also responsible for placing patients in rooms when instructed, answering patient questions and overseeing traffic flow, transporting patients to and from x-rays in wheelchairs or stretchers, and assisting patients in locating the departments they need to find, such as the pharmacy or cashier.

Source:

[http://icahn.mssm.edu/static\\_files/MSSM/Files/Departments/Emergency%20Medicine/Manual/SUB1911.pdf](http://icahn.mssm.edu/static_files/MSSM/Files/Departments/Emergency%20Medicine/Manual/SUB1911.pdf)

### **1-400 Word Article**

#### **1. Zachary Dupin: Pediatric Sports Medicine Specialist**

Zachary Dupin, and other medical students who have a significant interest in orthopedics and sports medicine, may consider making one of the fastest growing medical professions a career. Doctors with extensive experience and specialized training in the prevention and treatment of illness and injury qualify for the position of sports medicine specialist. The physician's job is to assist patients in diagnosing and treating their condition so that they can return to their normal activities.

The requirements needed to be a sports medicine specialist are extensive, and involve many years of experience and practice. A branch of this medical position, called pediatric sports medicine specialist, allows the physician to work exclusively with young children and teens who may have suffered an injury from exercise, activity, or athletic performance. With children, pediatric sports medicine specialists often see medical problems and injuries to the bones, joints, tendons, ligaments, and muscles. These musculoskeletal conditions are different from what a doctor would see in an adult patient, therefore the pediatric sports medicine specialist is trained to work with younger age groups and specializes in musculoskeletal issues that pertain to children.

The specific training required for a pediatric sports medicine specialist is as follows: four years of medical school, three years of general pediatric residency training, at least one year of fellowship training in sports medicine, certification through the American Board of Pediatrics, and practicable



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experience. Pediatric sports medicine specialists attend to a variety of injuries and illnesses among children, including but not exclusive to tendinitis, concussions, exercise-induced asthma, cartilage and overuse injuries, eating disorders, stress fractures, and dislocations. Because of the pain and trauma associated with some of these injuries, the pediatric sport medicine specialist uses his training to remain calm, compassionate, and empathetic while assessing, diagnosing, and treating the patients' injuries and illnesses. Children can easily panic when in shock and pain, so the pediatric sports medicine specialist must be aware of his patients' feelings at all times.

Dedicated medical students like Zachary Dupin have learned that field of sports medicine is a field on the rise, and one that is developing and expanding at an astonishing rate. One kind of specialist in this medical field is the pediatric sports medicine specialist, and he needs to be an excellent listener and compassionate in dealing with children who maybe in pain and not react well to injury or illness. Pediatric sports medicine specialists design their office with their patients in mind: toys and childlike themes can help patients relax as they wait to see their doctor.

Sources: <https://www.amssm.org/Content/pdf%20files/WhatisSMSpec-Patient-broch.pdf>

<https://www.healthychildren.org/English/family-life/health-management/pediatric-specialists/Documents/PedSportsMedfacts.pdf>

### **1-350 Word Press Release – Standard**

#### **1. Title: Zachary Dupin: A Medical Student with Promise**

Born in Las Vegas, Nevada, and raised in Henderson, Nevada, Zachary Dupin has joined the ranks of many other students who want to earn medical degrees and enter their field of study. With an undergraduate degree in Biology and minor degrees in Chemistry and Biochemistry from the University at Nevada, Dupin is a year into his graduate work at UNV School of Medicine at Reno and is looking toward his future as a physician, possibly in molecular biology, medical research, or orthopedic sports medicine.





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Dupin has experienced a wide range of volunteer positions that have given him incredibly valuable experience and insight into the medical industry. He has volunteered for general patient wards, and has completed research and lab work for Dr. Keen at the UNV at Reno lab. During that research, Dupin was responsible for using fly stocks to try to discover any connection between heart health and sleep deprivation. Dupin's maturity and sincere interest in the research was reflected in the leadership positions bestowed upon him by his professor. Another area of Dupin's experience was in an infusion center where he was required to assist nurses by focusing on patient comfort and services, allowing nurses to be freed up to focus on pressing needs in the department.

The most valuable experience that Zachary Dupin has had thus far in his medical studies has been the time he spent volunteering in the emergency room at Renown Health. Here, Dupin learned to operate with calm and compassion in a turbulent and stressful environment. Aside from taxiing patients from x-ray rooms to their own hospital rooms and running errands for nurses, Dupin's most significant responsibility was in developing his communication and empathy skills to make his direct interaction with patients as successful as possible. Emergency rooms breed unruly, frustrated, panicked, and scared people, and everyone in the emergency department has to do their best to not feed into the negative energy that some patients have. Dupin has noted that as one of his most valuable experiences, volunteering at an emergency room has allowed him to reassess and reaffirm his desire to pursue his graduate degree and become a physician.

**Summary: Zachary Dupin's most valuable medical volunteering experience has occurred in the Renown Health Center emergency room.**

**Location: Reno, NV**

**About: Zachary Dupin is an exceptional medical graduate student with a passionate drive to become a physician.**

**Categories: (medicine, volunteering, emergency, compassion, empathy, Zachary Dupin)**

**PR Contact: N/A**

