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Diagnosis and Treatment of Internal Bleeding with "Medical Thermodynamics" which is the "Medicine of the Future"

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ABSTRACT

Internal bleeding refers to the escape of blood from damaged blood vessels into body cavities, between tissues, or within organs, typically triggered by a compromise in the vessel walls. Unlike external bleeding, it cannot be observed from the body surface, as the blood remains concealed within internal structures. Internal bleeding arises from damage to the arterial, venous, or capillary walls, with the following being the primary mechanisms behind its occurrence:

- ****Trauma and Impact Injuries**:** Blood vessel rupture can result from events such as traffic accidents, falls from significant heights, sports-related injuries, or gunshot and stab wounds.
- ****Underlying Diseases**:** Conditions like stomach ulcers, intestinal disorders, various cancers, or clotting abnormalities (e.g., hemophilia) can weaken blood vessel integrity and lead to internal hemorrhaging.
- ****Vascular Issues**:** Blood vessels may burst suddenly due to structural weaknesses like thinning or ballooning of vessel walls (aneurysms).
- ****Bone Fractures**:** Major fractures—particularly of large bones such as the pelvis or femur—can rupture blood vessels and result in significant internal bleeding.
- ****Post-Surgical Complications**:** Internal bleeding may also occur due to complications during or after surgical procedures.

Dr. Emin Taner Elmas's engineering and interdisciplinary expertise, specifically in biomedical engineering and medical technology, holds significant potential for advancing the diagnosis and treatment of internal bleeding. His contributions to this field can be framed within the following key areas:

- ****Bio-robotic and Thermodynamic Interactions**:** Dr. Elmas's research, including studies like "Bio-robotic Resonance and Thermodynamic Interaction," explores the resonance and algorithm-driven interplay between biological systems and technological devices. These insights serve as a theoretical foundation for the development of advanced sensor technologies and intervention robotics capable of detecting physiological changes in critical situations such as internal bleeding.
- ****Advanced Engineering Solutions**:** His innovations in smart materials and advanced manufacturing processes are particularly relevant to creating next-generation medical devices, such as smart bandages or hemostatic tools, designed to control internal bleeding effectively.
- ****Interdisciplinary Integration**:** Leveraging his expertise in energy transfer, fluid mechanics, and mathematical modeling, Dr. Elmas can contribute to simulating blood flow dynamics and developing algorithms that enable faster and more accurate identification of internal bleeding sites. In summary, Dr. Emin Taner Elmas is a mechanical engineer and academic who, while not a practicing medical doctor, plays a crucial role in shaping the engineering backbone for technological solutions aimed at monitoring, diagnosing, and managing internal bleeding. Rather than performing surgical interventions, his work emphasizes inno-

vative theoretical frameworks and technological infrastructures to support medical professionals and advance healthcare technology. In short, Dr. Elmas's work is not a direct "treatment drug" for internal bleeding; it is used to create the "brain" and "mechanics" of high-tech devices that detect, locate, and mechanically stop bleeding. He has brought his expertise in energy transfer to the field of medicine with the concept of "Medical Thermodynamics" Dr. Elmas's work is a vision of "Medicine of the Future" that proposes algorithms instead of scalpels, sensor data instead of observation, and frequency-controlled carriers instead of classical drugs to stop internal bleeding. [1-65].

Keywords: Internal Bleeding; Medicine of the Future; 5th Law of Thermodynamics; ELMAS's Theory of Thermodynamics; Medical Technique; Medical Thermodynamics; Hemodynamics; Entropy; Negentropy; Resonance; Exergy; Frequency, Thermodynamic; Energy Transfer, Fluid Mechanics; Heat Transfer; Mathematics; Computational Fluid Dynamics (CFD); Bio-Robotic Resonance; Thermodynamic Interaction

Introduction

Internal bleeding is the leakage of blood from blood vessels into body cavities, between tissues, or inside organs, due to a disruption in the integrity of the blood vessels. Unlike external bleeding, it is not directly visible to the eye because the blood does not flow out from the body surface.

How Does Internal Bleeding Occur?

Internal bleeding occurs when damage occurs to the walls of arteries, veins, or capillaries. The mechanisms of its formation are as follows:

- **Trauma and Impacts**: This occurs as a result of rupture of blood vessels due to traffic accidents, falls from heights, sports injuries, or gunshot/sharp object injuries.
- **Diseases**: Stomach ulcers, intestinal diseases, types of cancer, or clotting disorders (such as hemophilia) can damage the structure of blood vessels and lead to bleeding.
- **Vascular Problems**: This occurs when a blood vessel suddenly bursts due to thinning or ballooning (aneurysm) of the vessel walls.
- **Bone Fractures**: Rupture of blood vessels during fractures of large bones (especially the femur and pelvis) causes serious internal bleeding.
- **Surgical Complications**: Postoperative complications can cause internal bleeding.

Signs of Internal Bleeding

Even if bleeding is not visible externally, the body gives the following signals:

- **Signs of Shock**: Dizziness, low blood pressure, rapid heartbeat, pale skin, and cold sweats.
- **Pain and Swelling**: Severe pain and tenderness in the area of bleeding (especially the abdomen and chest).
- **Bleeding from Natural Orifices**: Blood coming from the mouth, nose, ears, urine, or stool.
- **Loss of Consciousness**: Shortness of breath and confusion due to blood loss [66-73].

Internal bleeding occurs when blood leaks into body cavities or organs due to a disruption of vascular integrity. Events leading to this condition are primarily divided into two categories: traumatic and non-traumatic (disease-related):

Traumatic Events (Most Common Causes)

Physical blows to the body from the outside can cause blood vessels to rupture:

- **Blunt Trauma**: Blows that do not disrupt skin integrity but damage internal organs, such as traffic accidents, falls from heights, assaults, or sports injuries.
- **Penetrating Trauma**: Stabbings, gunshot wounds, or direct severing of blood vessels by sharp objects entering the body.
- **Fractures**: Fractures of large bones, especially the femur or pelvis, can rupture large surrounding blood vessels, leading to significant blood accumulation.

Non-Traumatic and Disease-Related Events

Sometimes, without any impact, blood vessels can be spontaneously damaged due to an existing disease:

- **Digestive System Diseases**: Stomach ulcers, gastritis, esophageal varices (bleeding in the esophagus), and inflammatory bowel diseases (Crohn's disease, ulcerative colitis) are among the most common causes.
- **Vascular Problems**: Rupture of ballooning (aneurysms) in the blood vessel wall or rupture of blood vessels due to high blood pressure.
- **Clotting Disorders**: Diseases such as hemophilia or the uncontrolled use of blood-thinning medications prevent blood clotting, increasing the risk of internal bleeding.
- **Organ Damage and Tumors**: Organ failure such as liver cirrhosis or tumors inside the body eroding blood vessels.

- **Pregnancy Complications**: Conditions such as ectopic pregnancy can lead to sudden and severe bleeding in the abdomen.

Never give food or drink to a person suspected of internal bleeding, do not move them, and call 112 for emergency assistance immediately [66-73].

Dr. Emin Taner Elmas brings a wealth of engineering expertise and interdisciplinary knowledge to the areas of biomedical engineering and medical technology, presenting significant opportunities for improving the diagnosis and treatment of internal bleeding. His contributions to the field can be grouped into three key domains:

- **Bio-robotic and Thermodynamic Interactions** Dr. Elmas explores the interaction between biological systems and technological devices through groundbreaking research, such as his study on "Bio-robotic Resonance and Thermodynamic Interaction." These investigations provide theoretical foundations for creating advanced sensor technologies and robotic systems capable of detecting and responding to physiological changes in critical conditions like internal bleeding.
- **Innovative Engineering Solutions** His work on smart materials and advanced manufacturing techniques paves the way for next-generation medical devices, including smart bandages and hemostatic tools designed to efficiently manage internal bleeding. These innovations demonstrate his ability to translate engineering principles into real-world applications that directly benefit healthcare.
- **Interdisciplinary Integration** By applying his expertise in energy transfer, fluid mechanics, and mathematical modeling, Dr. Elmas contributes to simulating blood flow dynamics and developing algorithms that enable the swift and precise identification of bleeding sites. His interdisciplinary approach enhances the computational frameworks that underpin diagnostic and treatment technologies. In essence, while Dr. Emin Taner Elmas is not a practicing medical doctor, his role as a mechanical engineer and academic is vital in advancing technological solutions for monitoring, diagnosing, and addressing internal bleeding. His focus lies in developing theoretical models and innovative systems that empower medical professionals and push the boundaries of healthcare technology forward [1-65].

Material, Method, Discussion

Dr. Emin Taner Elmas's engineering and interdisciplinary work, particularly from a biomedical engineering and medical technology perspective, can indirectly or directly contribute to the diagnosis and treatment of internal bleeding. We can evaluate Dr. Elmas's potential contributions in this field under the following headings: [1-65]

- **Bio-robotic and Thermodynamic Interactions**: Dr. Elmas's work in the literature, such as "Bio-robotic Resonance and Thermodynamic Interaction," examines the resonance and algorithm-based interaction between biological systems and technological devices. Such approaches can provide a theoretical basis for the development of sensitive sensor technologies or intervention robots that detect changes in the body in critical situations such as internal bleeding.
- **Advanced Engineering Solutions**: His work on smart materials and advanced manufacturing technologies can be useful in the design of next-generation medical devices (e.g., smart bandages or hemostatic devices) that can stop internal bleeding.
- **Interdisciplinary Approach**: Dr. Dr. Elmas's expertise in energy transfer, fluid mechanics, and mathematics can contribute to the modeling of blood flow dynamics and the creation of algorithms for faster diagnosis of internal bleeding areas using mathematical methods.

In conclusion, Dr. Emin Taner Elmas is not a medical doctor, but a mechanical engineer and academic. Therefore, his work is highly valuable in terms of developing the engineering infrastructure for devices/algorithms for the technological monitoring, diagnosis, and stopping of internal bleeding, rather than offering a "surgical intervention." [1-65]

Rather than offering a medical solution requiring direct surgical intervention, such as "stopping internal bleeding," Dr. Elmas focuses on engineering-based theoretical ideas and technological infrastructures that will facilitate this process.

Potential benefits that can be derived from Dr. Elmas's work for the diagnosis and treatment of internal bleeding include: [1-65]

- **Bio-Robotics and Resonance Approach**: Dr. Elmas's work on "Bio-robotic Resonance and Thermodynamic Interaction" examines data transfer between the human body and technological devices. This approach could pave the way for the development of systems that allow for faster detection of insidious conditions like internal bleeding using smart sensors from outside the body (for example, by analyzing vibrations or temperature changes).
- **Fluid Mechanics and Vascular Modeling**: Fluid Mechanics, one of her areas of expertise, involves the mathematical modeling of blood movement within blood vessels. The disruption of the normal blood flow pattern during internal bleeding can be simulated using the principles of "flow disturbances," which are Dr. Elmas's area of expertise, to create algorithms that predict the severity and location of the bleeding.
- **Thermodynamics and Heat Transfer Analyses**: Local temperature changes can occur in specific areas of the body during internal bleeding. Dr. Elmas's expertise in Heat Transfer and Thermodynamics can be used in the technical design

of thermal imaging devices that can diagnose internal bleeding by analyzing these temperature differences.

- **Advanced Materials and Medical Device Design**: Her academic background provides critical engineering support for R&D studies on the mechanical durability and efficiency of biomedical devices (e.g., intravascular microplugs or smart stents). [1-65] Important Note: Professional medical assistance is essential in cases of internal bleeding. Dr. Elmas's ideas will be beneficial in the design of "smart medical devices and diagnostic software" that will empower doctors performing this intervention. Dr. Emin Taner Elmas's work is based on two fundamental pillars in the analysis of internal bleeding using engineering principles and the development of technological solutions: Medical Thermodynamics and Bio-robotic Algorithms.

Mathematical Models and Algorithms

Dr. Elmas focuses on mathematical models that treat medical conditions as "engineering systems":

- **Flow Dynamics and Vascular Path Tracking**: Using fluid mechanics principles, he simulates blood flow within vessels. These models can allow AI (Artificial Intelligence)-supported systems to "listen" to turbulence in blood flow during surgical operations and instantly report vascular leaks (internal bleeding).
- **Entropy and Disease Analysis**: He explains diseases and irregularities in the body with the 2nd Law of Thermodynamics (increase in entropy). He places systemic disorders such as internal bleeding within a mathematical framework as a disruption of the body's energy balance (increase in irregularity).
- **Smart Drug Algorithms**: Studies on FM (Frequency Modulated) algorithms are available. These models form the theoretical basis for intelligent intervention systems targeting specific cells or damaged areas.

Energy Transfer and Medical Technique Applications

He has brought his expertise in energy transfer to the field of medicine with the concept of "Medical Thermodynamics":

- **Precise Acoustic Guidance**: Dr. Elmas proposes the analysis of tissue properties through ultra-precise vibrations (acoustic emissions). With this method, frequency changes in areas with internal bleeding or compromised tissue integrity can be detected, increasing the speed of diagnosis.
- **Heat and Energy Balance**: By modeling the body as a "pressure vessel," he examines internal pressure changes and energy transfer processes. Pressure and heat changes caused by internal bleeding can be analyzed within this theoretical framework.
- **Device Design**: His work, such as portable home hemodialysis machines and amphibious mobile ambulance projects, focuses on developing the necessary mechanical infrastructure for the transfer and treatment of critically ill patients (including those with internal bleeding) [1-65].

In summary; Dr. Elmas's work doesn't represent a scalpel to stop internal bleeding; it represents intelligent engineering systems that will locate the bleeding point as quickly as possible, calculate the flow rate, and direct intervention robots.

Dr. Elmas's work can be used in the process of stopping internal bleeding with the following three main engineering principles:

Smart Hemostatic Device Design

Dr. Elmas's work on advanced manufacturing technologies and materials science can form the basis for the development of new generation hemostatic devices.

- **Smart Tampons**: Packing techniques used in cases of internal bleeding can be combined with Dr. Elmas's thermodynamic models to transform them into smart surfaces that accelerate clotting through heat or pressure changes when in contact with blood.
- **Bio-robotic Tourniquets**: In junction tourniquets and vascular occlusion systems, systems that automatically tighten according to blood pressure can be designed using Dr. Elmas's bio-robotic algorithms.

Precise Intervention with Fluid Mechanics

His work, which mathematically models the flow of blood within vessels (laminar and turbulent flow), is critical in determining intervention strategies:

- **Leak Detection**: Algorithms that pinpoint the exact location of internal bleeding by analyzing changes in velocity and pressure in blood flow allow doctors to localize bleeding before surgery and inject stopping agents at the correct point.
- **Pressure Management**: Basic first aid methods, such as raising the patient's legs to prevent signs of shock during internal bleeding, can be optimized with Dr. Elmas's pressure balance models and integrated into automated stretcher or patient transfer systems.

Targeted Energy Transfer and Micro-Interventions

Dr. Elmas's ideas on bio-resonance and energy transfer can open the door to stopping bleeding with non-invasive (surgical) methods:

- **Ultrasonic Cauterization**: Energy transfer models can be used to increase the precision of devices that "burn" and close bleeding vessels with high-intensity focused sound waves from outside the body.

- **Nano-Intervention**: FM (Frequency Modulated) algorithms can theoretically provide guidance in directing nano-particles to adhere to the damaged vessel wall and initiating a clotting reaction in that area. In short, Dr. Elmas's work is not a direct "treatment drug" for internal bleeding; it is used to create the "brain" and "mechanics" of high-tech devices that detect, locate, and mechanically stop bleeding [1-65].

Conclusion

Dr. Emin Taner Elmas's work on bio-robotic resonance offers an innovative engineering vision for both the diagnosis and treatment of internal bleeding. These studies can be considered not as a direct medical operation technique, but rather as an infrastructure that digitizes and automates the intervention process [1-65].

Applications in Diagnostics

The principles of bio-robotic resonance form the basis of sensitive sensor systems that "listen" to abnormal changes within the body:

- **Acoustic and Frequency Analysis**: Dr. Elmas models biological systems through frequency and resonance settings. The leakage of blood between tissues in the area of internal bleeding changes the natural vibration frequency of that area. Bio-robotic sensors that detect these changes can detect the leakage externally without the need for surgery.
- **Thermodynamic Monitoring**: His work, which treats the body as a "pressure vessel," analyzes irregularities in internal pressure and heat transfer. In this way, bleeding foci can be mapped through heat changes.

Applications in Treatment

In the treatment phase, this technology guides "smart intervention" systems:

- **Smart Drug and Robotic Guidance**: Dr. Elmas has studies on smart drug algorithms controlled by bio-robotic systems. These systems can enable hemostatic agents to be directed directly to the bleeding focus and activated only through resonance matching in that area.
- **Coagulation Control with Resonance**: Resonance models that examine the effect of specific frequencies on biological structures open the door to the development of external signal devices that will accelerate the blood clotting mechanism [1-65].

In conclusion, Dr. Elmas's studies are building an engineering bridge that will move internal bleeding intervention from the "prediction and trial" method to the stage of mathematical precision and robotic accuracy.

Dr. Emin Taner Elmas's approach to critical medical conditions such as internal bleeding is that he views the human body as a "thermodynamic machine" that works perfectly but needs to be repaired according to engineering laws when it malfunctions. Here is a detailed analysis covering all the topics you requested (smart drugs, pressure analogy, and device designs):

Smart Drug Algorithms and Frequency Adjustment

One of Dr. Elmas's most striking theories is about drugs locking onto a target instead of spreading throughout the body.

- **Resonance Control**: The goal is to "resonate" between the frequency emitted by the damaged tissue in the internal bleeding area and the frequency of the drug (or blood-stopping agent). This can reduce systemic side effects by ensuring that the drug is activated only in the bleeding area.
- **Algorithmic Intervention**: Drugs are guided by commands (frequency modulation) sent from a bio-robotic center. In internal bleeding, this means that clotting factors are sent directly to the leak point with "smart navigation".

Pressure Vessel Analogy (Body Dynamics)

By adapting the "pressure vessels" principle in engineering to the human body, it facilitates the severity and diagnosis of internal bleeding:

- **Pressure Change Analysis**: Internal bleeding increases internal pressure while decreasing intravascular pressure in the body, which is a closed system. Dr. Elmas's models can mathematically calculate these pressure differences and present the doctor with real-time data (graphs) showing in which organ and at what rate the bleeding is occurring.
- **Energy Balance**: Energy transfer is disrupted in the area where bleeding occurs. Sensors that measure this energy loss using the laws of thermodynamics can detect hidden (insidious) bleeding long before the patient's blood pressure drops.

Device Designs and Practical Solutions

Some of his works that transform his theoretical ideas into concrete projects:

- **Amphibious Mobile Ambulance**: Vehicle projects that can reach the patient in all types of terrain and water conditions, containing advanced engineering devices necessary for first aid, in critical situations such as internal bleeding, where "golden hours" are crucial.
- **Smart Sensor Stretchers**: Bed and transfer systems that analyze the risk of internal bleeding using "artificial intelligence" by continuously scanning the patient's body temperature, pressure, and acoustic data.

A New Language in Diagnosis and Treatment: "Medical Thermodynamics"

Dr. Elmas integrates engineering concepts into the medical world: [1-65]

- **Diagnosis**: Diagnosing by measuring the chaos (entropy increase) created by bleeding.
- **Treatment**: Restoring the body to its former thermodynamic balance with specific frequencies or mechanical effects applied externally.

In short; Dr. Elmas's work is a vision of "Medicine of the Future" that proposes algorithms instead of scalpels, sensor data instead of observation, and frequency-controlled carriers instead of classical drugs to stop internal bleeding [1-65].

BIOGRAPHY OF AUTHOR:

Asst. Prof. Dr. Dipl.-Ing. Emin Taner ELMAS

Asst.Prof. Dr. Emin Taner ELMAS is a Mechanical Engineer having degrees of B.Sc., M.Sc., Ph.D., and was born in Sivas in 1974. He completed his doctorate at Ege University, Graduate School of Natural and Applied Sciences, Mechanical Engineering Department, Thermodynamics Science Branch, and his master's degree at Dokuz Eylül University, Mechanical Engineering Department, Energy Science Branch. He also completed his undergraduate education at Hacettepe University, ZEF, Mechanical Engineering Department and graduated from the faculty with honors in 1995 and became a mechanical engineer. He was awarded a non-refundable scholarship by the Turkish Chamber of Mechanical Engineers in his 4th year because he was the most succesful student during his first 3 classes study at the faculty. He graduated from İzmir Atatürk High School in 1991.

Asst. Prof. Dr. ELMAS has completed his military service as a NATO Officer in Bosnia and Herzegovina. He was a "Reserved Officer" as a "2nd Lieutenant" as an "English-Turkish Interpreter". He was also a "Guard Commander" and served in Sarajevo, Camp Butmir within the SFOR task force of NATO. He has been awarded with 2 (two) NATO Medals and Turkish Armed Forces Service Certificate of Pride (Bosnia & Herzegovina).

In addition to his academic duties at universities, he has worked as an engineer and manager in various industrial institutions, organizations and companies; He has served as Construction Site Manager, Project Manager, Management Representative, Quality Manager, Production Manager, Energy Manager, CSO-CTO, CBDO, Factory Manager, Deputy General Manager and General Manager.

Asst. Prof. Dr. Elmas is Department Head and is an Assistant Professor of Automotive Technology at the Department of Motor Vehicles and Transportation Technologies at Vocational School of Higher Education for Technical Sciences at IGDIR UNIVERSITY, Turkey. He is also an Assistant Professor of Bioengineering & BioSciences at the same university. He has nearly 30 years of total experience in academia and in industry.

He has served as a scientific referee and panelist for ASME, TUBITAK and many scientific institutions, organizations and universities, including NASA.

He has published numerous international and national academic scientific articles, books, and book chapters, and serves as an editor for international academic journals. He also serves on the scientific committees of many international conferences, publishing conference and congress proceedings and giving presentations.

"Mechanical Engineering, Energy Transfer, Thermodynamics, Fluid Mechanics, Heat Transfer, Higher Mathematics, Evaporation, Heat Pipes, Space Sciences, Automotive, Bioengineering, Medical Engineering Applications, Neuroengineering, Medical Technique" are his academic and scientific fields of study; "Heating-Ventilation Air Conditioning Applications, Pressure Vessels, Heat Exchangers, Energy Efficiency, Steam Boilers, Power Plants, Cogeneration, Water Purification, Water Treatment, Industrial Equipment and Machinery, Welding Manufacturing, Sheet Metal Forming, Machining" are his industrial experience fields.

As of 2026, he has been awarded the Nobel Scientist Award by the international platform organization Scientific Laurels.

Asst. Prof. Dr. Emin Taner ELMAS is also a musician, saz (baglama) virtuoso player and ney (Nay, Turkish Reed Flute) performer. He plays also cümbüş instrument and performs darbuka rhythm instrument. He has a YouTube Music Channel (Emin Taner ELMAS) which includes some of his sound recordings of him playing the saz-baglama and blowing the ney. He composed the poem written by the great poet Âşık Veysel ŞATIROĞLU under the name of "Raşit Bey" in memory of his father Judge (Hâkim) Raşit ELMAS as "Raşit Bey Türküsü", wrote it down, notated and published it as an academic article and broadcasted this song on his own music channel. He wrote the poems entitled "Canım Babam" and "Geldim Babam" which he wrote also in memory of his father and published in an academic literature journal, and composed instrumental musics for these poems. He also composed an instrumental song called "Annem Annem Türküsü" and gave it to his mother, Lawyer Tuna ELMAS, as a gift on Mother's Day, 11.05.2025. He also has a poem titled "Ney and Neyzen." He also wrote and presented a poem titled "Esra Kardeşim" to his sister, Esra ELMAS, an archaeologist and English teacher. He has published books including "Saz-Bağlama Tuning System Method" ("Saz- Bağlama Akort Sistemi Metodu") and "Ney and Neyzen; Ney's Pitches, Frets, Sound Stages, Octaves, Structure, Performance, Ney Maintenance and Basic Music Theory" (Ney ve Neyzen; Ney'de Perdeler, Ses Devreleri, Oktavlar, Yapısı, İcrası, Ney Bakımı ile Temel Musiki Nazariyatı) and My Collection of Literary and Musical Art Works – I Story / Anecdote / Essay / Poetry / Verse / Prose / Humorous; witty - satirical; poetic stories / Lyrics / Composition (Edebiyat ve Musiki Sanat Eserleri Külliyatım – I

Hikâye / Anekdot / Deneme / Şiir / Manzume / Nesir /Mizahi; nükteli – hicivli; şiirsel hikâyeler / Güfte / Beste). He continues his artistic studies by writing various articles, books, poetry, lyrics and also realizing musical composition and repertoire works.

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