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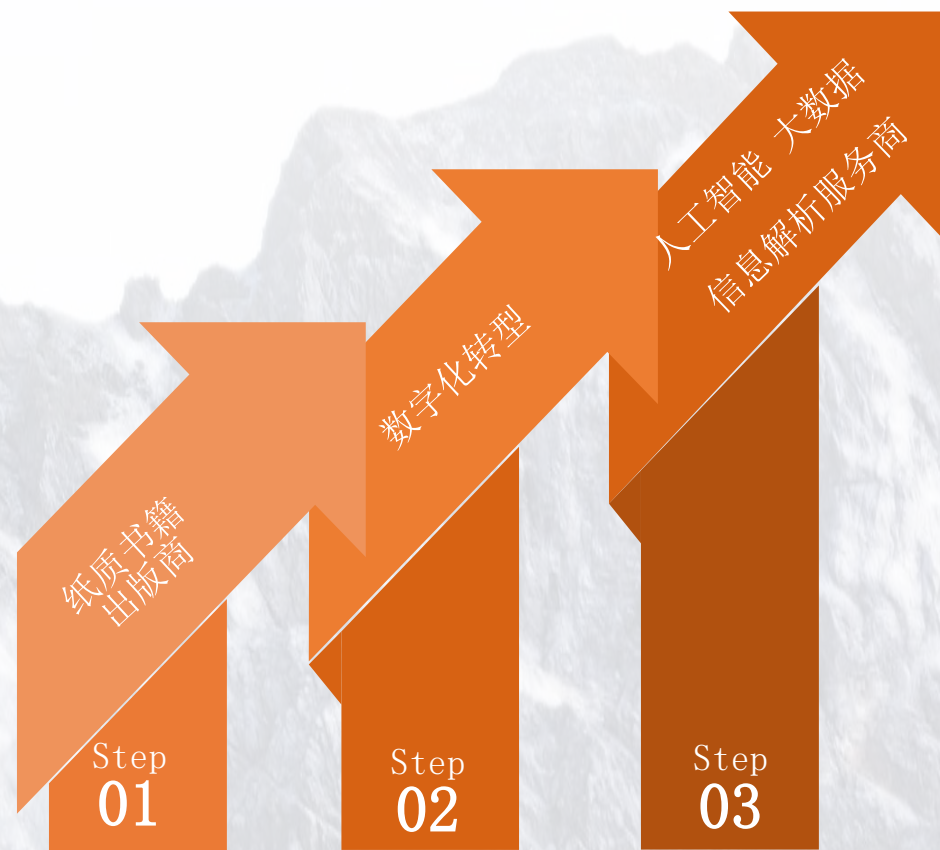


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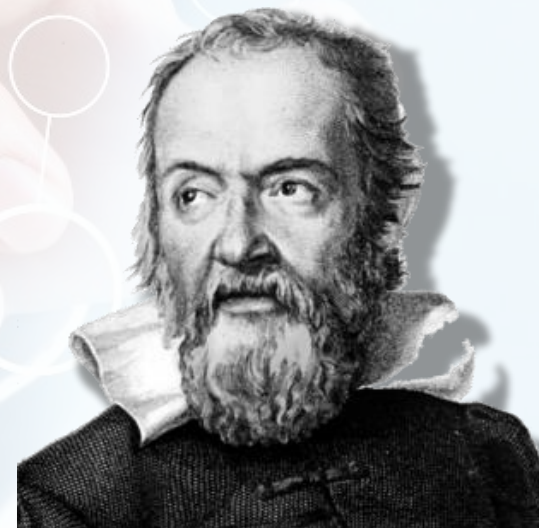
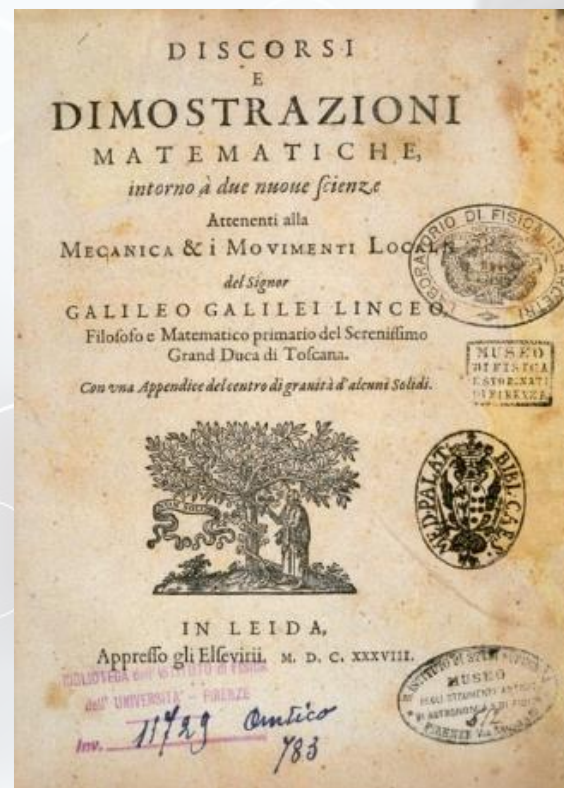
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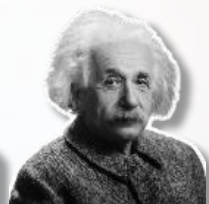
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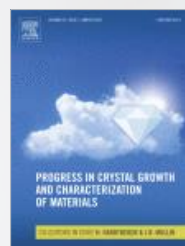
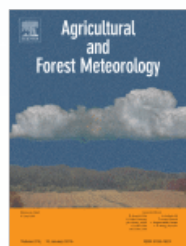
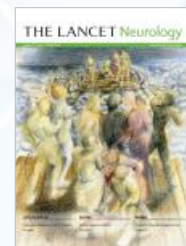
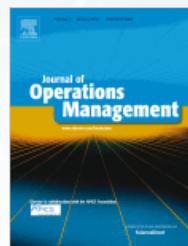
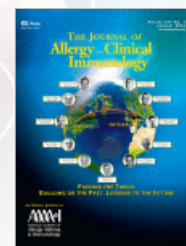
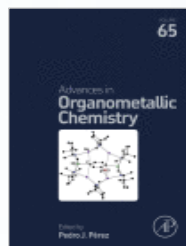
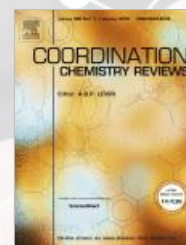
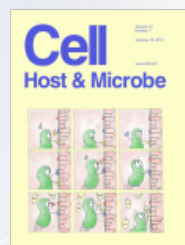
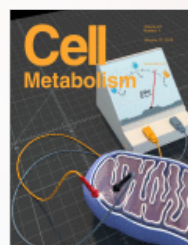


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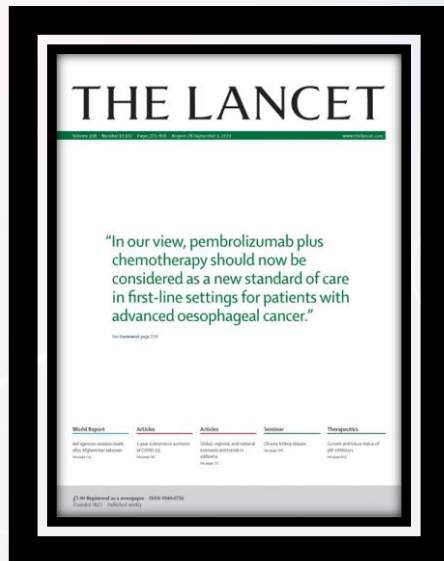


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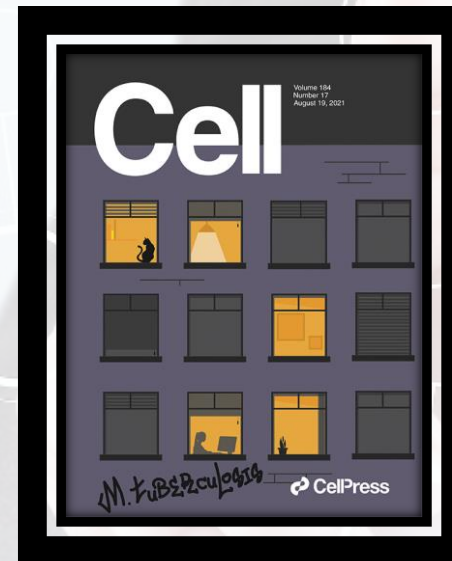
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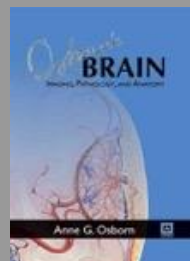
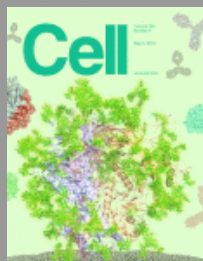
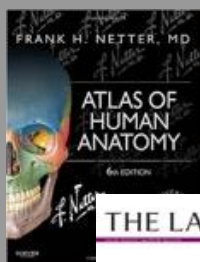
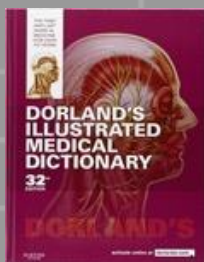
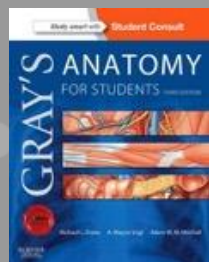
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THE LANCET

Volume 397 Number 10175 Pages 1411-1514 March 13-19, 2021 www.thelancet.com

“An authoritative voice with moral credentials is needed to support global access to vaccines, to intervene when that goal is under threat, and to call out unfair practices.”

See Editorial page 1411

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Health in Syria: a decade of conflict See page 101	Somnambulism in adults with overweight or obesity and type 2 diabetes See page 101	Identification of vulnerable plaques by intracoronary near-infrared spectroscopy and ultrasound See page 101	Global burden of hearing loss and years lived with disability, 1990-2019 See page 101	Enhancing antitumour efficacy with immunotherapy combinations See page 101

ISSN 0140-6736
Founded 1825 Published weekly



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Clinical Electrophysiology

MARCH 2021
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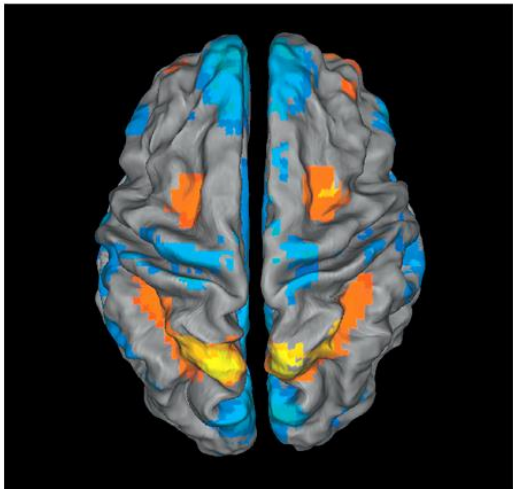
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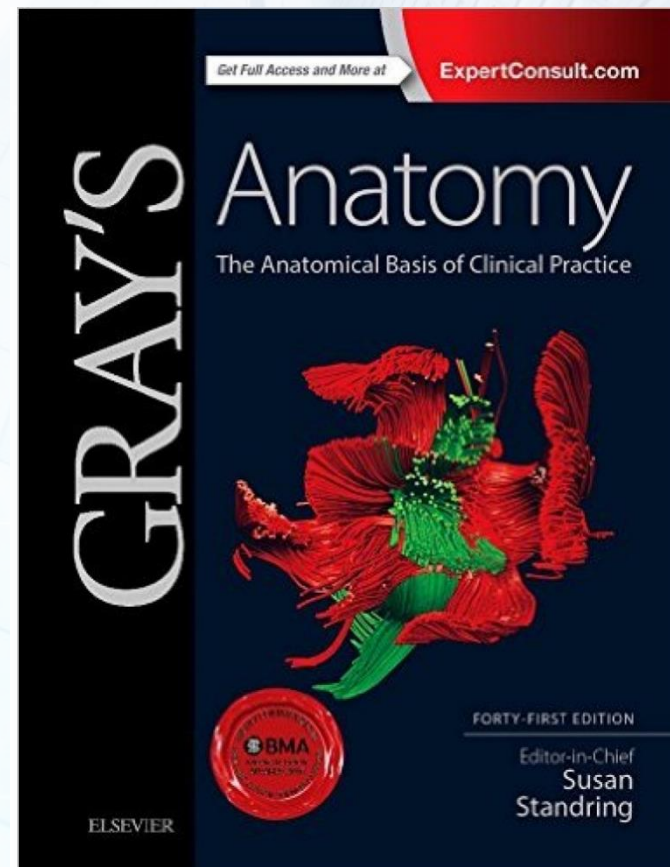
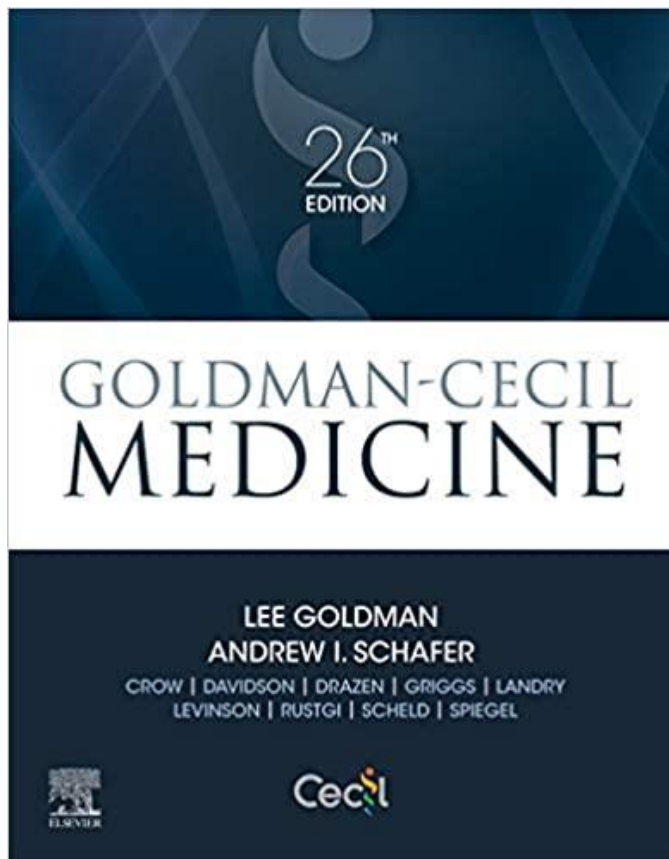
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Brain Research



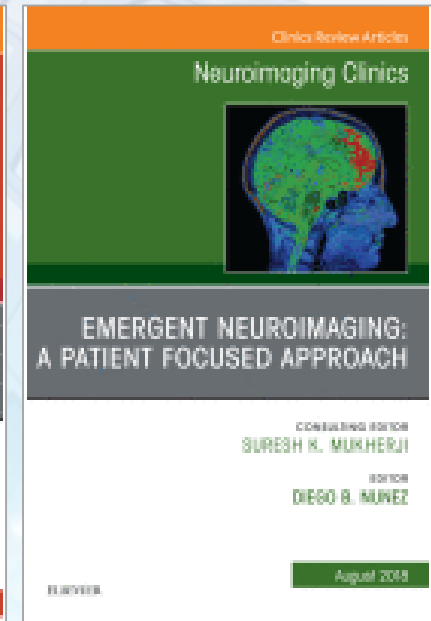
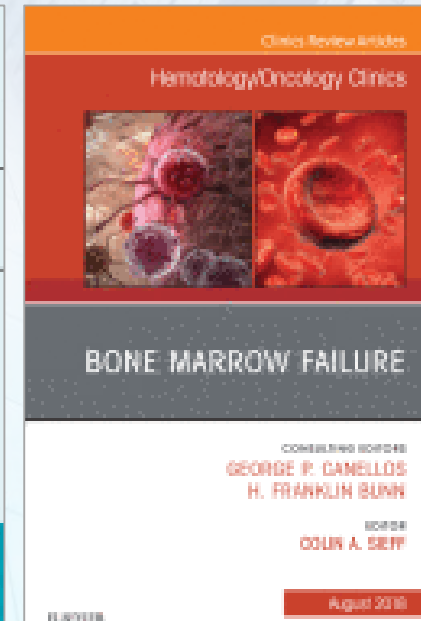
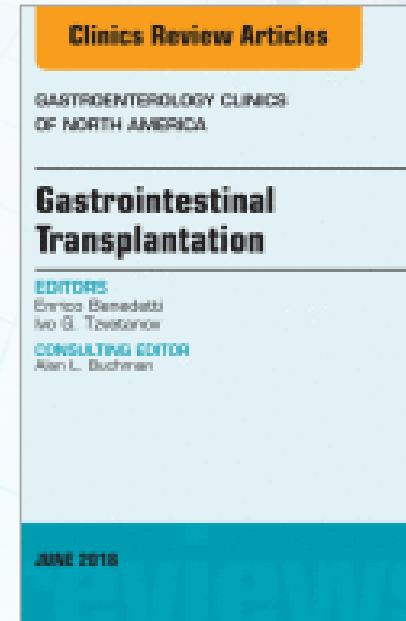
MAY 15, 2021 | VOLUME 1759

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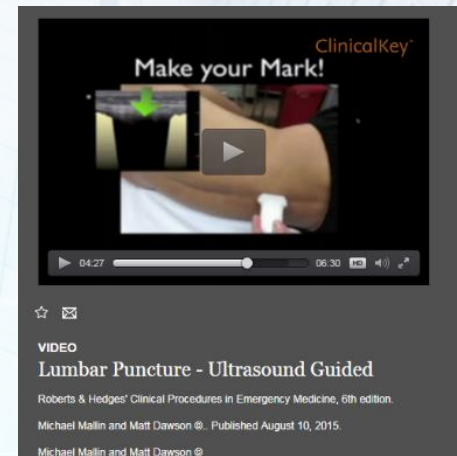
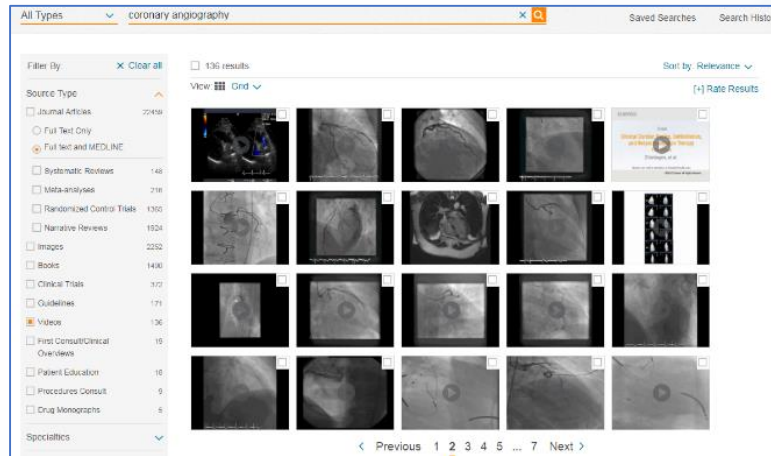
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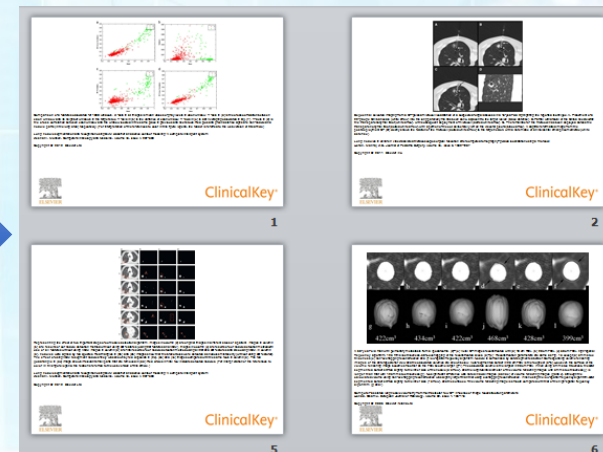
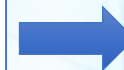
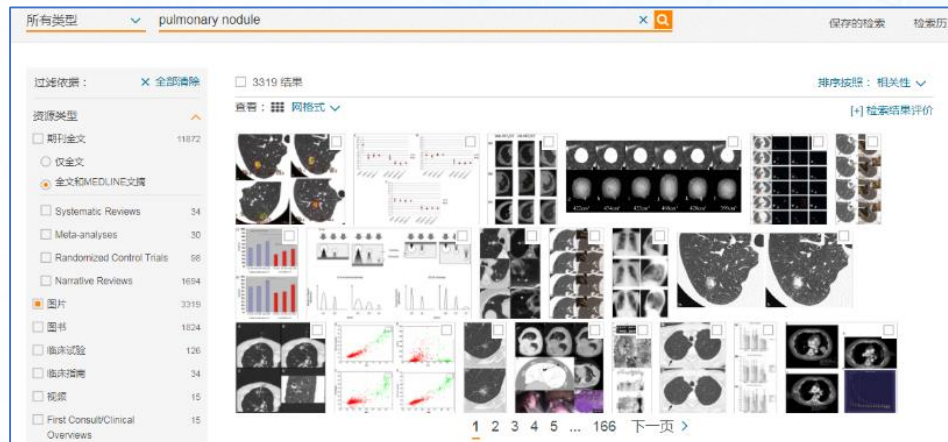
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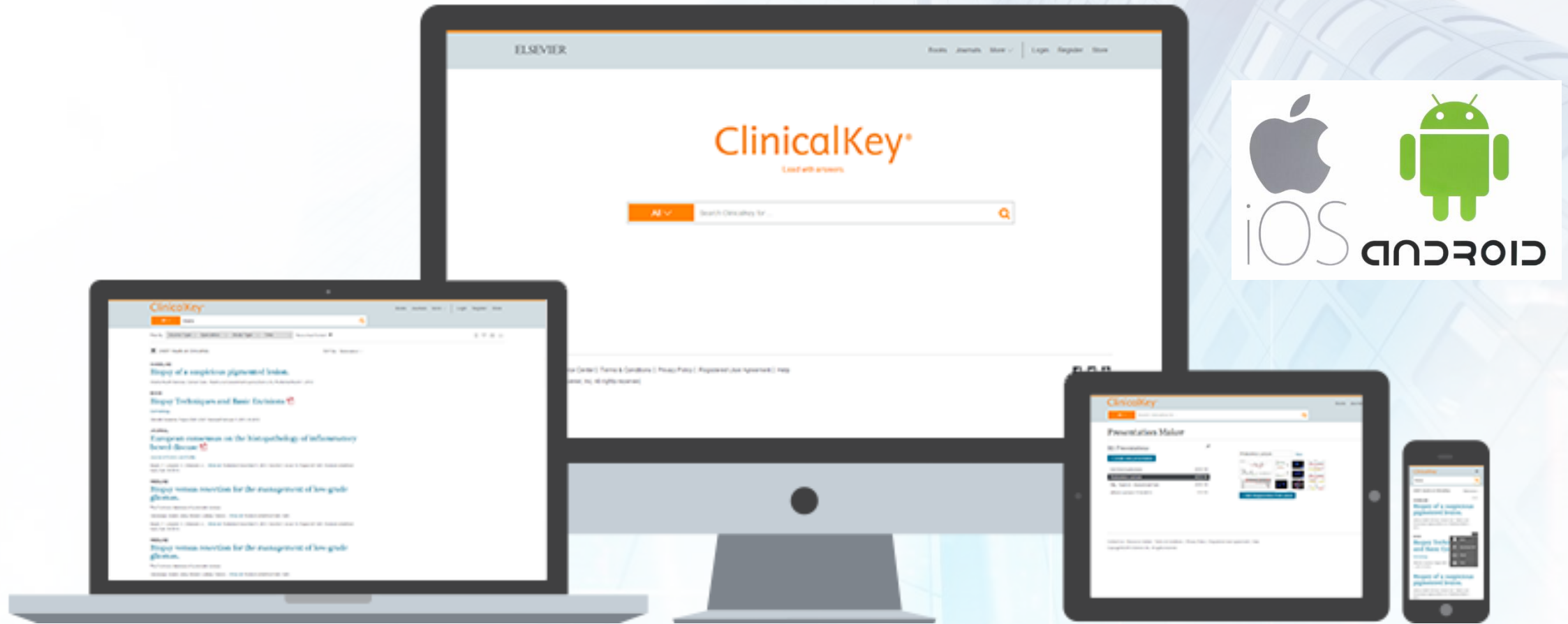


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A B C D E F G H I J K L
M N O P Q R S T U V W
X Y Z #

药物分类

- ☐ Acidifying Agents 6
- ☐ Acne Agents 25
- ☐ ACTH And Analogs 8
- ☐ Actinomycines 1
- ☐ Active Cellular Immunotherapies 6
- ☐ Adamantane Antivirals 2
- ☐ Adenosine Triphosphate-Citrate Lyase (ACL) Inhibitors 1

+ More 药物种类

副作用



适应症



禁忌症

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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Ziagen

Abacavir; Dolutegravir; Lamivudine

TRIUMEQ

Abacavir; Lamivudine, 3TC

Epzicom

Abacavir; Lamivudine, 3TC; Zidovudine, ZDV

Trizivir

Abaloparatide

TYMLOS

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药物专论

Abacavir

Ziagen

药物信息提供: Gold Standard

描述

Abacavir is an oral, synthetic guanosine nucleoside reverse transcriptase inhibitor (NRTI), indicated for use in combination with other antiretroviral medications to treat HIV. Abacavir is associated with a hypersensitivity reaction that occurs in approximately 5% to 10% of patients. This hypersensitivity reaction, characterized by fever, skin rash, fatigue, gastrointestinal symptoms, and, sometimes, respiratory symptoms, can be life-threatening; when a hypersensitivity reaction cannot be ruled out, abacavir treatment is permanently discontinued and rechallenge is contraindicated.²⁹⁷¹⁰

作用机制

Abacavir inhibits viral reverse transcriptase. Intracellularly, abacavir is converted by cellular enzymes to the active metabolite carbovir triphosphate. Carbovir triphosphate is an analog of deoxyguanosine-5'-triphosphate (dGTP). Carbovir triphosphate inhibits the activity of HIV-1 reverse transcriptase (RT) both by competing with the natural substrate dGTP and by its incorporation into viral DNA. The lack of a 3'-hydroxyl group in the incorporated nucleoside analog prevents the formation of the 5' to 3' phosphodiester linkage essential for DNA chain elongation, and therefore, the viral DNA growth is inhibited.

In vitro and in vivo HIV-1 isolates with reduced sensitivity to abacavir have been reported. Genetic analysis of isolates from abacavir-treated patients showed point mutations in the reverse transcriptase gene that resulted in amino acid substitutions at key positions in the virus. Phenotypic analysis of HIV-1 isolates that harbor abacavir-associated mutations from 17 patients after 12 weeks of abacavir monotherapy exhibited a 3-fold decrease in susceptibility to abacavir in vitro. The clinical relevance of genotypic and phenotypic changes associated with abacavir therapy has not been established.

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Salmeterol

Salmeterol is an inhaled long-acting inhaled beta-2 agonist (LABA) that is given twice daily. It is indicated for the maintenance treatment of asthma in combination with an asthma controller medication (i.e., inhaled corticosteroid [ICS]), for the...

Gold Standard. 出版 August 13, 2021.

药物专论

Fluticasone; Umeclidinium; Vilanterol

Fluticasone; umeclidinium; vilanterol is a triple combination containing an inhaled corticosteroid (ICS), (fluticasone), a long-acting muscarinic antagonist (LAMA), (umeclidinium), and a long-acting beta-2 adrenergic agonist (LABA) (vilanterol). T...

Gold Standard. 出版 August 16, 2021.

Obstetrics: Normal and...

Surgery During Pregnancy

Neurosurgery in Pregnancy

Top of Book Chapter CME ☆

Neurosurgery in Pregnancy

Neurosurgical anesthesia often involves several techniques aimed at regulating cerebral blood flow, but these may also impact uteroplacental perfusion. For example, controlled hypotension can lead to reduced placental perfusion and transient FHR abnormalities. Similarly, whereas pregnancies can usually tolerate hypothermia, hyperventilation, and diuresis, potential fetal effects cannot be disregarded.¹⁰⁴ In most cases, maternal health should be the primary focus and should supersede potential fetal effects. Nonetheless, a basic understanding of these effects can help the obstetrician guide the surgical and anesthesia teams caring for the patient.

Key Points

- Care of the pregnant surgical patient requires a multidisciplinary approach with an understanding of the physiologic changes that accompany normal pregnancy.
- Expansion of maternal blood volume during pregnancy may mask signs of maternal hemorrhage, and clinically significant blood loss can occur before hemodynamic changes are evident.
- Delay in surgical intervention can result in increased maternal and fetal morbidity and mortality, which significantly increases the risk for preterm labor and fetal loss.
- Diagnostic doses of radiation (<5 cGy) from radiographs and CT scans are unlikely to pose any significant harm to the developing fetus. MRI and ultrasound can be safely used when appropriate to further minimize radiation exposure.
- No significant increased risk is apparent for congenital malformations in women who require nonobstetric surgery during pregnancy. Although the risk for preterm birth, low birthweight, and neonatal death may be increased, this may be due to the underlying illness rather than the surgical procedure.
- Although laparoscopy as a first approach to abdominal surgery in pregnancy seems reasonable, its safety continues to be studied. Abdominal insufflation pressures should be kept below 15 mm Hg whenever possible, and the SAGES guidelines should be followed. The use of a laparoscopic approach in the latter stages of pregnancy should be individualized based on indications and experience of the surgeon.
- Adnexal masses are commonly encountered in pregnancy, although most ovarian masses are benign. Pregnant women diagnosed with an adnexal mass should be counseled about the signs and symptoms of

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Danny O. Jacobs.

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Anal Fistulotomy

Sean Lee.

Ankle Block

Lee A. Fleisher.

Anoscopy

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Murray McLachlan.

Arterial Cannulation

Murray McLachlan.

Arterial Line Placement

Lee A Fleisher.

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Arthrocentesis: Ankle

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Arthrocentesis: Elbow

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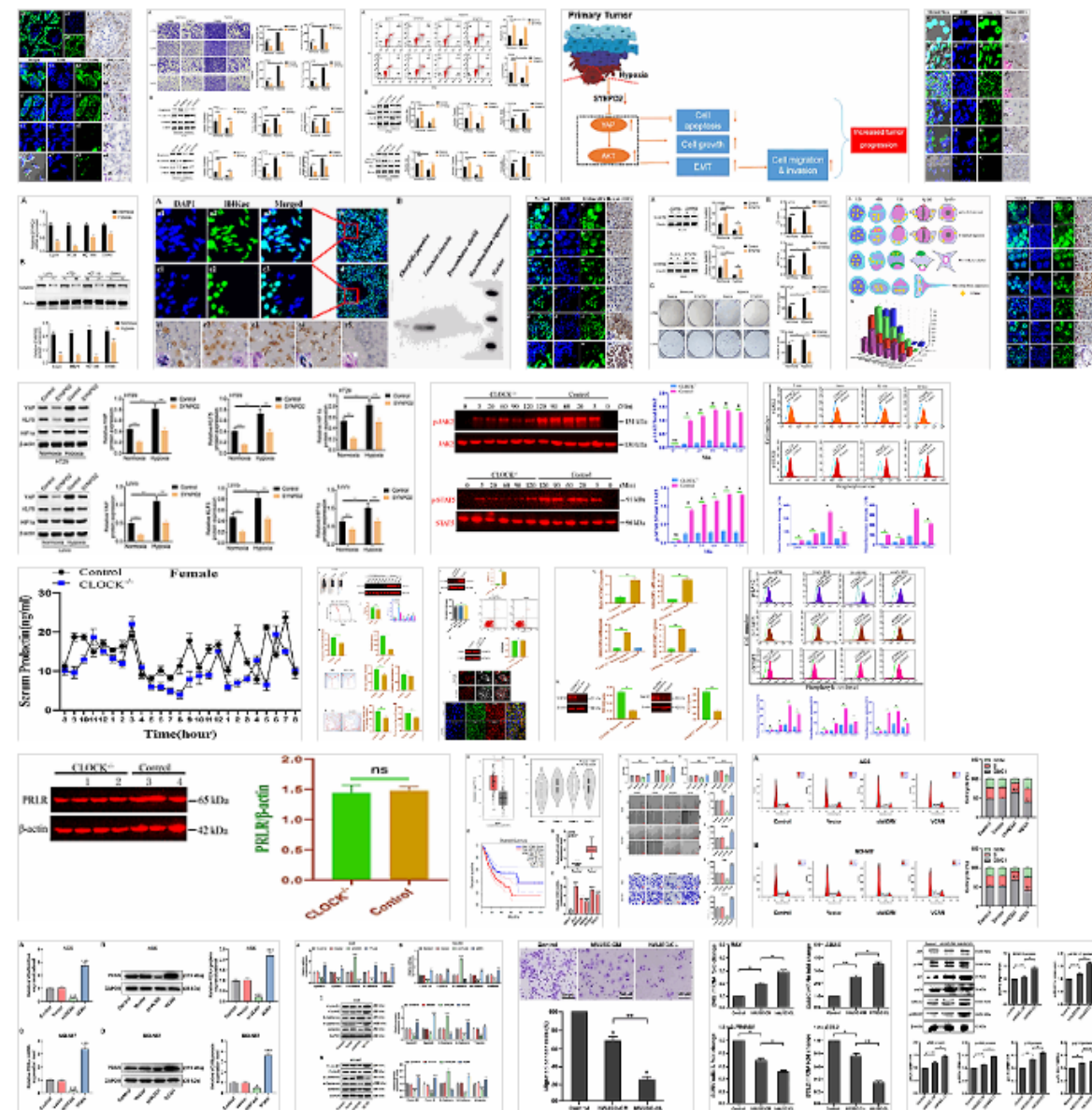
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14. Molecular motors and the mechanism of muscle contraction

15. Excitation-contraction coupling in muscle

16. Mechanics of muscle contraction

Epilogue

Abbreviations, symbols, and numerical constants

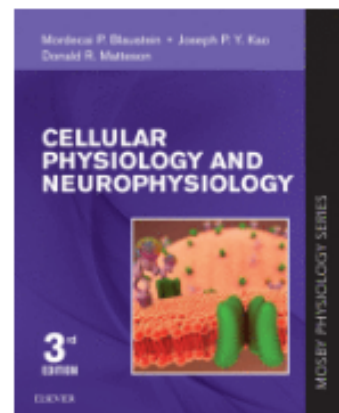
A mathematical refresher

Root-mean-squared displacement of diffusing molecules

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Blaustein, Mordecai P., MD

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Objectives

Homeostasis enables the body to survive in diverse environments

The body is an ensemble of functionally and spatially distinct compartments

The biological membranes that surround cells and subcellular organelles are lipid bilayers

Biomembranes are formed primarily from phospholipids but can also contain cholesterol and sphingolipids

Biomembranes are not uniform structures

Transport processes are essential to physiological function

Cellular physiology focuses on membrane-mediated processes and on muscle function

Summary

Key words and concepts

Bibliography

图书章节

Introduction: Homeostasis and cellular physiology



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Mordecai P. Blaustein MD, Joseph P.Y. Kao PhD 和 Donald R. Matteson PhD

Cellular Physiology and Neurophysiology, 1, 1-5

Objectives

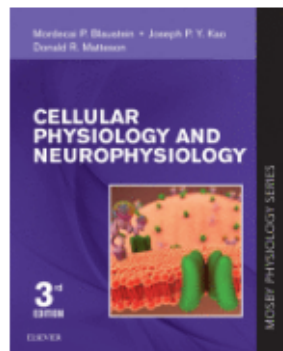
1. Recognize the need to maintain the constancy of the internal environment of the body and the concept of homeostasis.
2. Describe the hierarchical view of the body as an ensemble of distinct compartments.
3. Describe the composition and structure of the lipid bilayer membranes that encompass cells and organelles.
4. Explain why the protein-mediated transport processes that regulate the flow of water and solutes across biomembranes are essential to all physiological functions.

Homeostasis enables the body to survive in diverse environments

Humans are independent, free-living animals who can move about and survive in vastly diverse physical environments. Thus we find human habitats ranging from the frozen tundra of Siberia and the mountains of Nepal ^a

^a The adaptability of humans is remarkable: humans can survive on Mount Everest, which, at 29,028 feet above sea level, is at the cruising altitude of jet airplanes. At the summit the temperature is approximately -40° Celsius (same as -40° Fahrenheit), the thin atmosphere supplies only about one third of the oxygen at sea level, and the relative humidity is zero.

to the jungles of the Amazon and the deserts of the Middle East. Nevertheless, the elemental constituents of the body are cells, whose survival and function are



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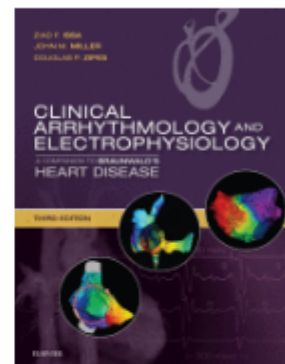
Ziad F. Issa MD, John M. Miller MD 和 Douglas P. Zipes MD

Clinical Arrhythmology and Electrophysiology, 1, 1-14

Ionic Equilibrium

The lipid bilayer of the cell membrane is hydrophobic and impermeable to water-soluble substances such as ions. Hence, for the hydrophilic ions to be able to cross the membrane, they need hydrophilic paths that span the membrane (i.e., pores), which are provided by transmembrane proteins called ion channels. Once a hydrophilic pore is available, ions move passively across the membrane, driven by two forces: the electrical gradient (voltage difference) and chemical gradient (concentration difference). The chemical gradient forces the ions to move from a compartment of a higher concentration to one of lower concentration. The electrical gradient forces ions to move in the direction of their inverse sign (i.e., cations [positively charged ions] move toward a negatively charged compartment, whereas anions [negatively charged ions] move toward a positively charged compartment). Because the chemical and electrical gradients can oppose each other, the direction of net ion movement will depend on the relative contributions of chemical gradient and electrical potential (i.e., the net electrochemical gradient), so that ions tend to move spontaneously from a higher to a lower electrochemical potential.¹

The movement of an ion down its chemical gradient in one direction across the cell membrane results in build-up of excess charge carried by the ion on one side of the membrane, which generates an electrical gradient that impedes (repels) continuing ionic movement in the same direction. When the driving force of the electrical gradient across the membrane becomes equal and opposite to the force generated by the chemical gradient, the ion is said to be in electrochemical equilibrium, and



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Regulation of Internal Potassium Distribution

Overview of Renal Potassium Excretion

Potassium Secretion by Principal Cells of Late Distal and Cortical Collecting Tubules

Summary of Major Factors That Regulate Potassium Secretion

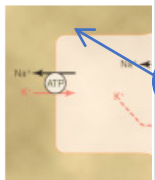
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Control of Renal Calcium

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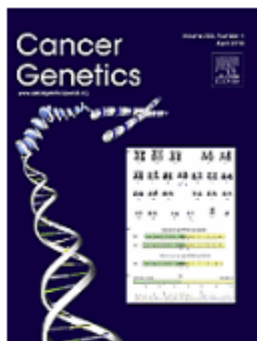
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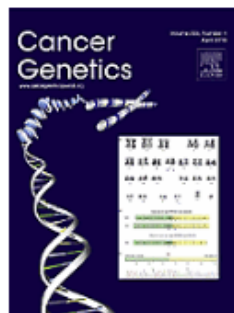
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□ [Mutations in BRCA-related breast and ovarian cancer in the South African Indian population: A descriptive study](#)



页 1-6. Combrink, Herkulaas MVE, Oosthuizen, Jaco, Visser, Botma, Chabilal, Namitha, Buccimazza, Ines, Foulkes, William D, 和 van der Merwe, Nerina C.

Highlights•The South African Indian population represents a different genetic admixture compared to that of mainland India. •Twenty-eight different pathogenic heterozygotes were detected in 32 of the 223 patients in this study. •Comprehensive fami...

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Highlights•A few genetic abnormalities are detected in BAL cases. •The most found genetic abnormalities in BAL are MLL rearrangement and t(9;22). •Trisomy 5 is very rare in BAL, and was reported as included in hyperdiploid karyotype. •The our case...

□ [BRCA1 and BRCA2 whole cDNA analysis in unsolved hereditary breast/ovarian cancer patients](#)



页 10-17. Montalban, Gemma, Bonache, Sandra, Bach, Vanessa, Gisbert-Beamud, Alexandra, Tenés, Anna, Moles-Fernández, Alejandro, López-Fernández, Adrià, Carrasco, Estela, Balmaña, Judith, Diez, Orland, 和 Gutiérrez-Enríquez, Sara.

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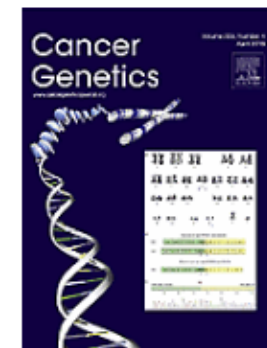
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Highlights

- A few genetic abnormalities are detected in BAL cases.
- The most found genetic abnormalities in BAL are MLL rearrangement and t(9;22).
- Trisomy 5 is very rare in BAL, and was reported as included in hyperdiploid karyotype.
- The our case report is unique in literature in terms of detecting double Ph chromosomes and trisomy 5.

Abstract

Biphenotypic acute leukemias (BAL) are known as a type of leukemia involving cells with myeloid and along with lymphoid origin, in which genomic changes are detected. It has been stated that the most common genomic changes in BAL are t(9;22) and the translocations of the 11q23 region, these anomalies cause poor prognostic effects. We detected trisomy 5 (+5) in addition to the double Ph chromosome in a case where we investigated the genomic changes using molecular and conventional cytogenetic methods. Bone marrow transplantation was planned due to the poor response to prednisone. According to the information we have obtained, our report will be the first article to discuss the aberrations found in addition to the Ph chromosome in BAL and the effect of these aberrations on prognosis. However, the double observation of the Ph chromosome, which has a



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Atrial Fibrillation

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出版 October 28, 2020. © 2021.

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Summary

Diagnosis

Workup

Treatment

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Atrial fibrillation: diagnosis and management

Overview This guideline covers diagnosing and managing atrial fibrillation in adults. It includes guidance on providing the best care and treatment for people with atrial fibrillation, including assessing and managing risks of stroke and bleeding....

National Institute for Health and Care Excellence (NICE). 出版 April 26, 2021.

Atrial Fibrillation

Clinical Overview [查看完整主题](#)

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Key Points

Atrial fibrillation is a common form of supraventricular tachyarrhythmia characterized on ECG by low-amplitude baseline oscillations (fibrillatory or f waves from the fibrillating atria) and an irregularly irregular ventricular rhythm. Often associated with hypertension, valvular heart disease, heart failure, or obstructive sleep apnea

Some patients are asymptomatic or note only a vague sense of fatigue or decreased exercise tolerance. Others note palpitations, lightheadedness, and dyspnea at rest or on exertion. Less commonly, a patient may come to medical attention with a complication of atrial fibrillation (eg, acute embolic stroke, tachycardia-mediated ventricular dysfunction)

Atrial fibrillation is episodic in nature in many patients and is termed *paroxysmal* when episodes terminate within 7 days of onset, *persistent* when episodes are continuous for more than 7 days, and *long-standing persistent* when episodes have been continuous for longer than 12 months

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Femoral artery pseudoaneurysm in a patient treated with triple antithrombotic therapy.

Femoral artery pseudoaneurysm in a patient treated with triple antithrombotic therapy. An angiogram of the abdominal aorta and ileofemoral arteries shows a left common femoral pseudo-aneurysm. This vascular complication occurred as a late failure ...

Hani Jneid. 出版 August 11, 2015.

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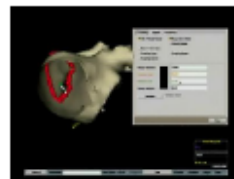
Catheter ablation: Atrial fibrillation (Cardiology)

This patient is a sixty-four year old female with symptomatic paroxysmal atrial fibrillation who failed flecainide therapy and desired an atrial fibrillation ablation. A pre-procedural cardiac CT with an image seen here from a PA view was complete...

出版 February 1, 2014.

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Gaspar, Thomas, MD; Sih, Haris, PhD; ...[显示全部](#) 出版 January 31, 2013. Volume 10, Issue 2. © 2013.

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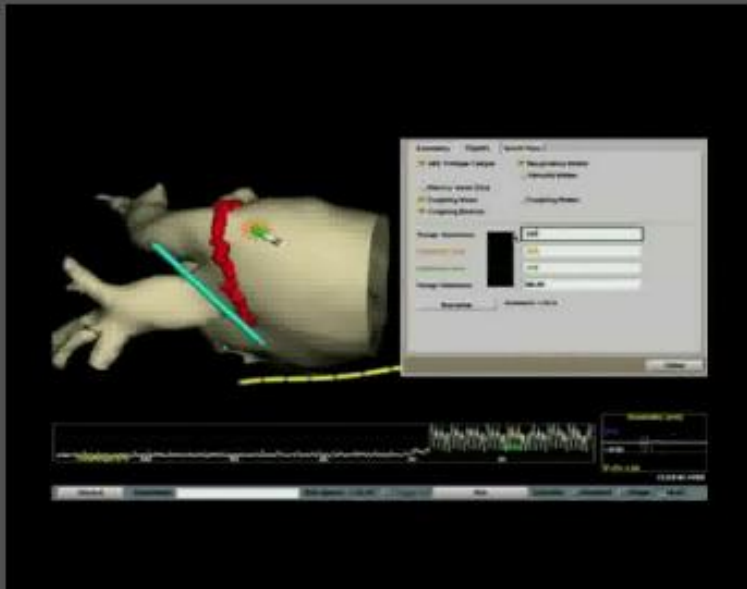
Femoral artery pseudoaneurysm in a patient treated with triple antithrombotic therapy.

Cardiovascular Intervention: A Companion to Braunwald's Heart Disease.

Hani Jneid.. 出版 August 12, 2015

Femoral artery pseudoaneurysm in a patient treated with triple antithrombotic therapy. An angiogram of the abdominal aorta and iliofemoral arteries shows a left common femoral pseudo-aneurysm. This vascular complication occurred as a late failure ...

三药联用抗血栓治疗后的患者股动脉假动脉瘤



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VIDEO

Video 1 - Use of electrical coupling information in AF catheter ablation: A prospective randomized pilot study

Heart Rhythm.

Gaspar, Thomas, MD.. 出版 February 1, 2013

Movie 1 Scaling of the contact technology during the procedure. Right lateral view on the computed tomography model of the left atrium integrated into the 3-dimensional (3D) cardiac mapping system. By way of illustration, the atrium is sliced. At ...

房颤导管消融的3D模型的模拟

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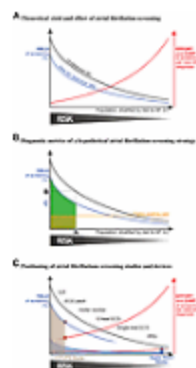
[+] 检索结果评价

图片

Atrial Fibrillation Population Screening

(A) This conceptual graph relates the diagnostic yield of an AF screening program and the effort and cost of screening to the target population. The x-axis represents the screening population stratified by risk for AF (which also correlates to th...

Gruwez, Henri, MD; Proesmans, Tine, MSc; ...[显示全部](#). 出版 August 31, 2021. Volume 13, Issue 3. 页 531-542. © 2021.

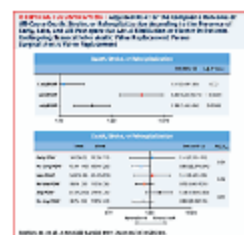


图片

Postoperative Atrial Fibrillation or Flutter Following T...

Adjusted Risk for the Composite Outcome of All-Cause Death, Stroke, or Rehospitalization According to the Presence of Early, Late, and All Postoperative Atrial Fibrillation or Flutter in Patients Undergoing Transcatheter Aortic Valve Replacement V...

Shahim, Bahira, MD, PhD; Malaisrie, S. Chris, MD; ...[显示全部](#). 出版 July 25, 2021. Volume 14, Issue 14. 页 1565-1574. © 2021.

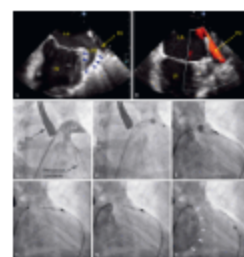


图片

Atrial Fibrillation

Percutaneous Left Atrial Appendage (LAA) Ligation Using the Lariat Device. Transesophageal echocardiography (TEE, A and B) and fluoroscopic images (C-H, caudal right anterior oblique projections) during Lariat ligation of the LAA. (A) TEE at base...

Issa, Ziad F., MD; Miller, John M., MD; ...[显示全部](#). 出版 December 31, 2018. © 2019.



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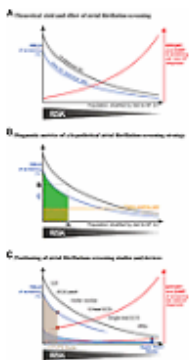
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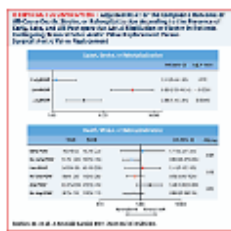
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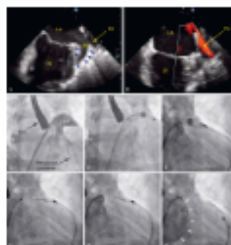
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Atrial Fibrillation

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Issa, Ziad F., MD; Miller, John M., MD; ...[显示全部](#) 出版 December 31, 2018. © 2019.



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Shahim, Bahira, MD, PhD; Malaisrie, S. Chris, MD; ...显示全部. 出版 July 25, 2021.

Event	Hazard Ratio	95% CI	P-value
Overall	1.12	1.05-1.19	.002
Early AF	1.15	1.08-1.22	.001
Late AF	1.08	1.01-1.15	.03
All AF	1.10	1.03-1.17	.004
Flutter	1.05	0.98-1.12	.12
AF/Flutter	1.10	1.03-1.17	.004
AF only	1.12	1.05-1.19	.002
Flutter only	1.05	0.98-1.12	.12



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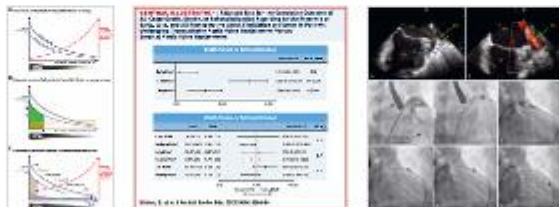
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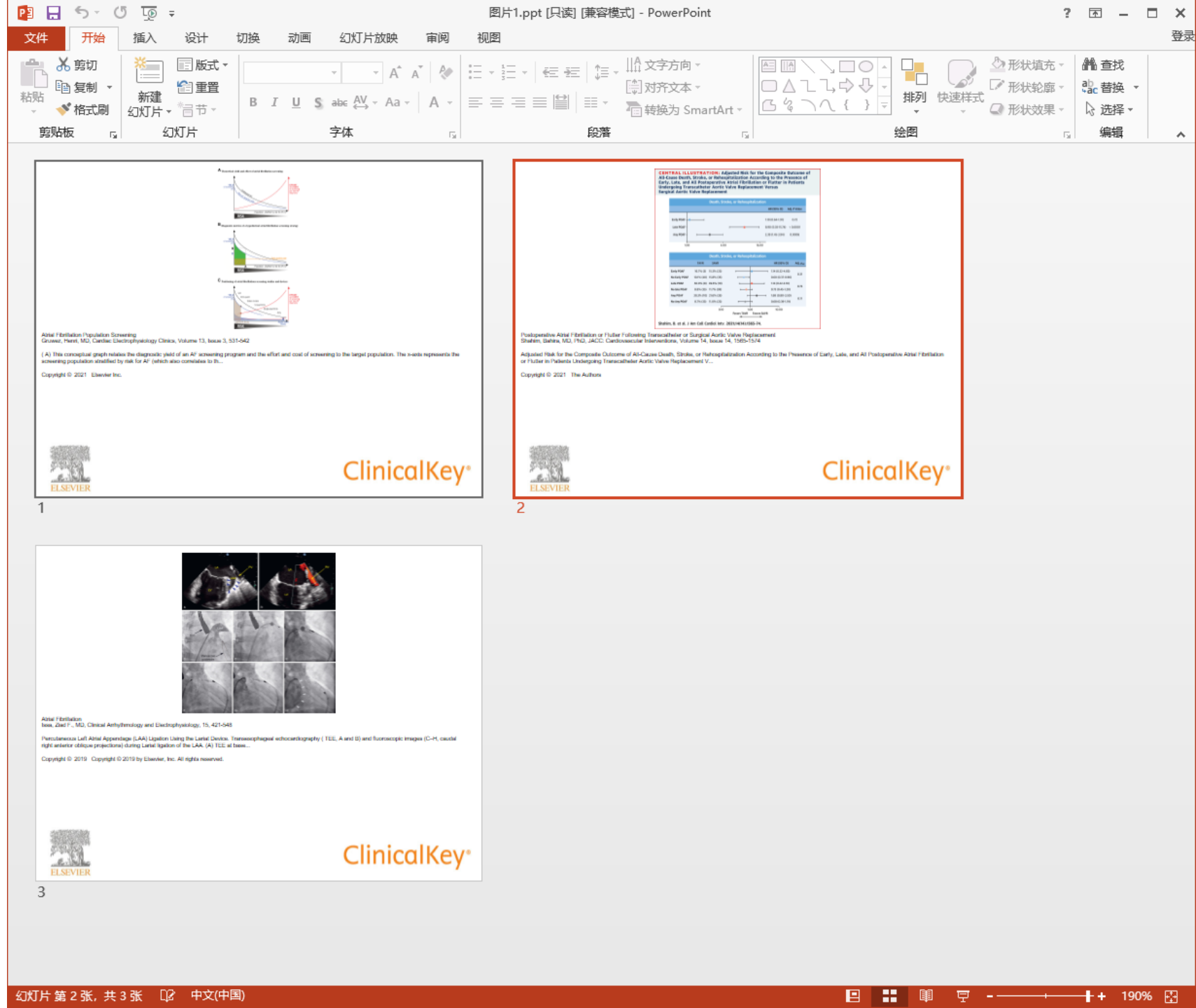
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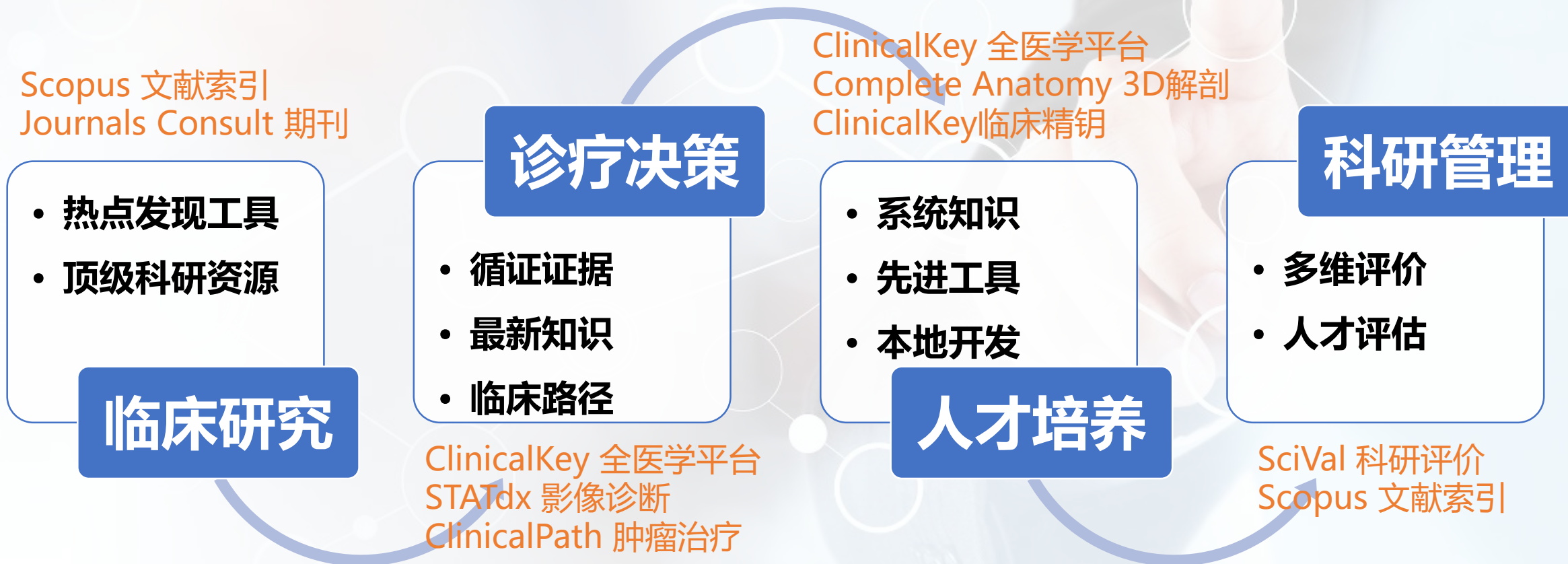
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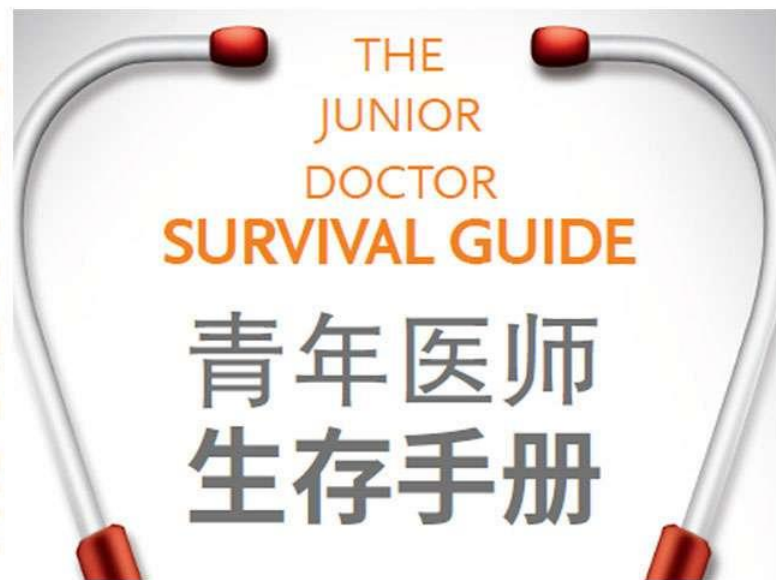


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