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Source segment	Target segment
A	
wabsorbable vs. nonabsorbable	بخیه‌های جذبی و غیرجذبی
absorbable vs. nonabsorbable sutures	بخیه‌های جذبی و غیرجذبی
Achilles tendon	تاندون آشیل
ACL	رباط صلیبی قدامی
ACL biology	زیست شناسی رباط صلیبی قدامی
ACL healing	درمان رباط صلیبی قدامی
ACL prevention program	برنامه پیشگیری از آسیب رباط صلیبی قدامی
ACL reconstruction	بازسازی رباط صلیبی قدامی
ACL repair safety	ایمنی در ترمیم رباط صلیبی قدامی
ACL response, injury	واکنش رباط صلیبی قدامی، جراحت
ACL tears.	پارگی رباط صلیبی قدامی
ACL treatment	درمان رباط صلیبی قدامی
ACL vs. MCL	رباط صلیبی قدامی در مقابل رباط جانبی داخلی
ACL vs.MCL cell behavior	رفتار رباط صلیبی قدامی در مقابل رفتار سلول رباط جانبی داخلی
ACL after injury	رباط صلیبی قدامی پس از جراحت
ACL explants	ریز نمونه‌های رباط صلیبی قدامی
ACL graft tensioning	کشش گرافت رباط صلیبی قدامی
ACL grafts, biologic	گرافت‌های رباط صلیبی قدامی، زیست شناختی
ACL healing, age and skeletal maturity	درمان رباط صلیبی قدامی، سن و بلوغ اسکلتی
ACL ruptures prevention	پیشگیری از پارگی رباط صلیبی قدامی
ACL tissue engineering	مهندسی بافت رباط صلیبی قدامی
ACL-reconstructed group	گروهی که رباط صلیبی قدامی آنها بازسازی شده است
activation of	فعال سازی
acute inflammatory response	پاسخ التهابی حاد
advantage	مزیت
advantages	مزایا
after ACL reconstruction	پس از بازسازی رباط صلیبی قدامی
after bio-enhanced ACL repair	پس از ترمیم رباط صلیبی قدامی با مواد زیستی
Age and skeletal	سن و تاثیر بلوغ اسکلتی
age and skeletal maturity effect	تاثیر سن و بلوغ استخوانی
Age and skeletal maturity effect, ACL healing.	تاثیر سن و بلوغ استخوانی، بهبود رباط صلیبی قدامی.
age-specific risks	خطرات مرتبط با سن

aggregating	توده شده
aims	کمک ها
allograft	آلوگرافت
allograft vs. autograft	آلوگرافت در مقابل اتوگرافت
alternatively activated	فعال شده به روش جایگزین
anabolic effects	تأثیرات آنابولیک
anatomy and location	کالبدشناسی و محل
ACL healing	درمان رباط صلیبی قدامی
Anterior cruciate ligament reconstruction	بازسازی رباط صلیبی قدامی
Anterior cruciate	زیست شناسی رباط صلیبی قدامی
anterior cruciate ligament	رباط صلیبی قدامی
anteroposterior laxity testing	آزمایش شلی رخ بازو
AP laxity	سستی PA
apoptotic process	فرایند آپوپتوزی
association	رابطه
autograft use	کاربرد اتوگرافت
Autografts	اتوگرافت‌ها

B

B cells	سلول های بی
B lymphocytes, ligament healing	لنفوسیت‌های بی، درمان رباط
barriers	موانع
basophils	مواد قلیادوست
Bench to bedside approach.	روش نیمکت به بالین
bio-artificial	زیست مصنوعی
biochemistry and molecular biology ,	بیوشیمی و بیولوژی مولکولی
Bio-enhanced ACL reconstruction.	بازسازی رباط صلیبی قدامی با استفاده از مواد تقیت شده زیستی
bio-enhanced ACL repair	ترمیم رباط صلیبی قدامی با مواد زیستی
bioenhanced repair safety	ایمنی در ترمیم تقویت شده با استفاده از مواد زیستی
bio-enhanced suture repair	ترمیم بخیه‌ای تقویت شده با مواد زیستی
biologic adjunct	افزوده زیستی
biologic augmentation	تقویت زیست شناختی
biologic mechanism	مکانیزم زیست شناختی
biological scaffolds	داربست‌های زیستی
biology	زیست شناسی

biomaterial, choice	مواد زیستی، انتخاب
biomechanical data	داده‌های بیومکانیکی
biomechanical evaluation, healing	ارزیابی بیومکانیکی، درمان
biomechanical strength, ACL healing	استحکام بیومکانیکی، درمان رباط صلیبی قدامی
biomechanics	بیومکانیک
bioreactor	واکنشگر زیستی
bioreactor designs	طرح های واکنشگر زیستی
biosynthesis	بیوسنتز
blood clot constituents	اجزای تشکیل دهنده لخته خون
blood components role	نقش اجزای خون
bone healing	ترمیم استخوان
bone marrow stromal cells	سلول های بنیادین مغز استخوان
Bone marrow stromal cells (BMSCs)	سلولهای بنیادین مغز استخوان (BMSC)

C

canine (dog)	سگ سانان (سگ)
caprine (goat)	بزسان (بز)
carrier alone vs.	فقط حامل در مقابل
cartilage repair procedures	رویه‌های ترمیم کارتیلاژ
cell	سلول
Cell seeding	کاشت سلول
cell sources	منابع سلول
cell type	نوع سلول
cell collagen production after injury	تولید کلاژن سلولی پس از جراحت
cell culture medium	محیط کشت سلول
cell migration after injury	مهاجرت سلول پس از جراحت
cell proliferation after injury	تکثیر سلول پس از جراحت
cell-enhanced ACL reconstruction	بازسازی رباط صلیبی قدامی با سلول
cells alone	تنها سلول
cells and biomaterials	سلول ها و مواد زیستی
cell-staining method	روش رنگ آمیزی سلول
cellular level mechanisms	مکانیسم‌های سطح سلولی
cellular response characterization	توصیف پاسخ سلولی
central cut	برش مرکزی
children	کودکان
chronic inflammatory processes	فرآیندهای التهابی مزمن

classically activated	فعال شده به روش کلاسیک
Claudius Galen contribution	خدمات کلاودیوس جالینوس
clinical applications	کاربردهای بالینی
clinical approaches	روشهای بالینی
clinical studies	مطالعات بالینی
clinical trial	آزمایش بالینی
clinicians vs.experts, language	بالینی و تخصصی، زبان
Collagen	کلاژن
collagen formation	شکل گیری کلاژن
collagen scaffolds/xenografts	داربسته/ زنوگرافتهای کولاژنی
collagen safety	ایمنی کلاژن
collagen scaffold grafts	گرافت های داربست کلاژن
collagen scaffold vs. PRP	داربست کولاژنی در مقابل پلاکت درمانی
collagen-based biomaterials	مواد زیستی مبتنی بر کولاژن
collagen-GAG sponge	اسفنج کلاژن-گلیکوزآمینوگلیکان
collagen-platelet hydrogel	هیدروژل پلاکت-کلاژن
collagen-platelet composites use	کاربرد کامپوزیت کلاژن-پلاکت
Complete ACL tear.	پارگی کامل رباط صلیبی قدامی
complex wound models	مدل های پیچیده زخم
complications	پیچیدگی ها
components	اجزاء
concentration	تمرکز
cost	هزینه
Crimp	چین
crucial role	نقش تعیین کننده
current gold standard method	روش فعلی استاندارد طلایی
cytokines	سیتوکین‌ها

D

data	داده‌ها
definition	تعریف
delivery of	تحویل
deposition	نوشته، گواهی
description	شرح
diapedesis	دیاپدز
dose–response relationship	رابطه دوز-پاسخ

E

ECM scaffold	داربست برون یاخته‌ای
ECM-based scaffold and platelet	پلاکت و داربست برون یاخته‌ای
effect	تاثیر
effect of	تاثیر
effects of choosing grafts	تاثیر انتخاب گرافت ها
end result cards	کارتهای نتایج نهایی
endoligament	درون رباطی
endoscopic/two incisions	شکاف های آندوسکوپیک/دوتایی
enhanced ACL repair	ترمیم تقویت شده رباط صلیبی قدامی
enhancements	بهبودها
Enzyme-linked immunosorbent assay	تست الیزا
Eosinophils	ائوزینوفیل‌ها
Epidemiology, ACL injury	اپیدمولوژی، آسیب دیدگی رباط صلیبی قدامی
Epiligament	اپی لیگامنت
epiligament and endoligament response	پاسخ اپی لیگامنت و اندولیگامنت
epiligamentous regeneration phase	مرحله بازسازی اپی لیگامنتی
Erythrocytes.	اریتروسیت‌ها
evaluation	ارزیابی
exogenous application	کاربرد خارجی
extra-articular	برون مفصلی
extra-articular wound healing	ترمیم زخم برون مفصلی
Extracellular matrix (ECM) scaffold	داربست ماتریس برون سلولی
extraosseous stabilization techniques	تکنیک پایدارسازی خارج استخوانی

F

female athletes	ورزشکاران زن
fibroblast	فیبروبلاست
Fibroblast growth factor	عامل رشد فیبروبلاست
fibroblast proliferation	تکثیر فیبروبلاست
fibroblasts	فیبروبلاست‌ها
fixation techniques	روشهای تثبیت
Flexcell bioreactor	واکنشگر زیستی Flexcell
flexion vs. extension	خمیدگی و کشش
flow cytometry principle	اصل فلوسیتومتری
formation, impaired healing	شکل گیری ، درمان ناقص

frequency, ACL tears	توزیع فراوانی، پارگی رباط صلیبی قدامی
fresh/frozen	تازه/منجمد
function	عملکرد
functional histologic response	پاسخ بافت شانختی عملکردی
future work	کارهای آینده

G

gait analysis techniques	تکنیک های تجزیه و تحلیل راه رفتن
gene expression and function	عملکرد و بیان ژنها
gene therapy and stem cells use	ژن درمانی و کاربرد سلولهای بنیادین
goal	هدف
granulocytes	گرانولوسیت
Granulocytes, wound healing	ترمیم زخم، گرانولوسیت‌ها
gross anatomy vs. knee biomechanics	بیومکانیک زانو و آناتومی بارز
growth factor	عوامل رشد
Growth factors, collagen synthesis	عوامل رشد، ترکیب کلاژن
growth plates	صفحات رشد
growth and development	رشد و توسعه
growth factor receptor expression	بیان گیرنده عامل رشد
growth factors associated	عوامل رشد مرتبط با

H

hamstring/patellar tendon,	تاندون همسترینگ/ کشکک
head-to-head test	تست سر به سر
healing	درمان
healing response	پاسخ درمانی
Healing, ACL graft.	درمان، گرافت رباط صلیبی قدامی
healthy ligaments	رباطهای سالم
high-density cell culture	محیط کشت سلول با چگالی بالا
histologic phases	مراحل بافت شناختی
histologic sections	بخش های بافت شناختی
histology	بافت شناسی
history	تاریخچه
human trials	آزمایش انسانی
human ACLs vs. large animal models	رباط صلیبی قدامی انسان در مقابل مدلهای حیوانی

I

immunologic response	پاسخ ایمنی شناختی

Impaired healing, joint issues	درمان ناقص، مشکلات مفصل
in animal study	در جانورشناسی
in situ forces	نیروهای طبیعی
in vitro models	مدلهای آزمایشگاهی
In vitro models, ACL injury	مدلهای آزمایشگاهی، آسیب رباط صلیبی قدامی
in vitro phase	در مرحله آزمایشگاهی
in vivo model, complete ACL tear	مدل درون تنی، پارگی کامل رباط صلیبی قدامی
in vivo model, use of	کاربرد مدل زنده
In vivo models, ACL injury	مدل های بافت زنده، آسیب رباط صلیبی قدامی
incomplete ligamentization	لیگامنت سازی ناقص
indications	شاخص ها
individual growth factors	عوامل رشد فرد
industry	صنعت
inflammation	التهاب
inflammatory phase	مرحله التهابی
Inflammatory phase, ACL injury	مرحله التهابی، آسیب رباط صلیبی قدامی
initial processes	فرایندهای اولیه
injection of MSCs	تزریق MSC
injury	جراحت
Insulin-like growth factor (IGF)	عامل رشد شبه انسولین (IGF)
interspecies differences	تفاوت های بین گونه‌ای
intra-articular	درون مفصلی
Intra-articular ligament.	رباط درون مفصلی
intra-articular wound healing	ترمیم زخم درون مفصلی
isolate ACL tear	پارگی جداگانه رباط صلیبی قدامی

J

Joint function	عملکرد مفصل
joint function, biomechanical	عملکرد مفصل، ارزیابی بیومکانیکی
joint issues	مسائل مفصل

K

knee scores	میزان آسیب زانو
knee stabilization	پایداری زانو

L

Lachman test	تست لاچمن
Leukocyte-adhesion deficiency-1	نقص چسبندگی لکوسیتی - ۱

leukocytes	لکوسیت‌ها
leukocytosis	لکوسیتوز
ligament	رباط
Ligament bioreactor	واکنشگر زیستی رباط
ligament healing	درمان رباط
ligament (ACL) biology	بیولوژی رباط صلیبی قدامی
ligament appearance	ظاهر رباط
ligament reconstruction (ACLR)	بازسازی رباط (ACLR)
ligament strength restoration	بازگردانی استحکام رباط
ligamentization process	فرآیند لیگامنت سازی
limitation	محدودیت
lymphocytes	لمفوسیت‌ها
M	
Macrophages	ماکروفاژها
macrophages depletion	تخلیه ماکروفاژ
macroscopic observation	مشاهده میکروسکوپی
material properties	خواص ماده
maturity effect, ACL healing	تأثیر کامل، بهبودی رباط صلیبی قدامی
MCL transection vs. ACL	برش عرضی رباطی جانبی داخلی در مقابل رباط صلیبی قدامی
Mechanics, and Treatment	مکانیک و درمان
Mechanoreceptors	گیرنده‌های مکانیکی
Medial collateral ligament (MCL)	رباط جانبی داخلی
medicine	علوم پزشکی
Megakaryocyte	مگاکاریوسیت
metal/ bioabsorbable screws	پیچ های فلزی/جذبی
microscopic appearance/histology	ظاهر / بافت شناسی میکروسکوپی
migration	مهاجرت
model development	ساخت مدل
Monocyte, wound healing	مونو سیت، ترمیم زخم
monocytes	مونوسیت‌ها
monocytes and macrophages	مونوسیت‌ها و ماکروفاژها
MPC differentiation	تمایز MPC
MRI measurement	سنجش MRI
MTT assay	تکنیک MTT assay
multiple cell types	انواع سلول های چندگانه

N

nerve structures	ساختارهای عصبی
nerves and blood vessels	اعصاب و رگهای خونی
neutrophils	نئوتروفیل‌ها
Neutrophils, ligament healing	نئوتروفیل ها، درمان رباط
nonsurgical treatment history	تاریخچه درمان بدون جراحی
nuclear shapes	اشکال هسته
number vs. growth factor release	در مقابل رها شدن عامل رشد

O

orthopedics	ارتوپدی
outcome	نتیجه
outcome assessment	ارزیابی نتایج
ovine (sheep)	گوسفندی (گوسفند)

P

Pacinian corpuscle	گویچه‌های پاسینی
parameters determination	تعیین پارامترها
Partial ACL tears	پارگی جزئی رباط صلیبی قدامی
partial ACL tears	پارگی جزئی رباط صلیبی قدامی
Passive knee laxity	شلی بی اراده زانو
passive knee laxity measurements	سنجش شلی بی اراده زانو
patellar ligament wounds	زخمهای رباط زانویی
patellar tendon graft	گرافت تاندون زانو
patient care improvement	بهبود مراقبت از بیمار
Pediatric ACL tears	پارگی های رباط صلیبی قدامی در کودکان
penicillin, mold juice	پنیسیلین
petri dish research	تحقیقات پتری دیش
photomicrograph	فتومیکروگراف
photomicrographs, ACL insertion site	عکس میکروسکوپی، محل قرارگیری رباط صلیبی قدامی
physeal-sparring ACL reconstruction	بازسازی رباط صلیبی قدامی با حفظ فیزیال
physical properties	خواص فیزیکی
physiologic function	عملکرد فیزیولوژیک
physiological conditions	شرایط فیزیولوژیکی
physis closure	انسداد صفحه رشد
Pivot shift test	آزمون تغییر جهت محوری
plant and pivot motion	کاشت و حرکت محوری

Plasminogen	پلاسمینوژن
platelet concentration	تمرکز پلاکت
platelet deliver	انتقال پلاکت
platelet vs. carrier alone	پلاکت و حامل تنها
platelet carrier, healing stimulation	حامل پلاکت، تحریک درمان
platelet carrier, stimulation	تحریک حامل پلاکت
Platelet-derived growth factor (PDGF)	عامل رشد مشتق شده از پلاکت (PDGF)
platelet-rich plasma	پلاسمای غنی از پلاکت
Platelet-rich plasma (PRP)	پلاسمای غنی از پلاکت (پلاکت درمانی)
platelet-rich plasma use	کاربرد پلاسمای غنی از پلاکت
platelet-rich plasma use, healing	کاربرد پلاسمای غنی از پلاکت، درمان
platelets	پلاکت‌ها
poly(l-lactic acid) (PLLA)	پلی ال-لاکتیک اسید (PLLA)
Polymerase chain reaction (PCR)	واکنش زنجیره‌ای پلیمراز (PCR)
polymers advantage	مزایای پلیمرها
Polytetrafluoroethylene (PTFE) graft	گرافت پلی تترا فلوئورواتیلن (PTFE)
porcine (pig)	خوکی (خوک)
porcine model, intra-articular	مدل خوکی، درون مفصلی
Preclinical models	مدل های پیش بالینی
preclinical studies	مطالعات پیش بالینی
preclinical models testing	آزمایش مدلهای پیش بالینی
preparation, ovine	آماده سازی، گوسفندی
prevention	جلوگیری
primary repair	ترمیم اولیه
primary ACL repair	ترمیم اولیه رباط صلیبی قدامی
primary repair enhance	تقویت ترمیم اولیه
primary suture repair	ترمیم بخیه‌ای اولیه
principal phases of	مراحل اصلی
proliferation	تکثیر
proliferative phase	مرحله تکثیر
provisional scaffold	داربست موقت
PRP preparation	آماده سازی PRP
PRP use	استفاده از PRP
PRP vs.non-PRP group	گروه پلاکت درمانی و غیر پلاکت درمانی
PTFE graft	گرافت PTFE

Q

qualitative histological evaluation	ارزشیابی کیفی بافت شناختی

R

rabbit	خرگوش
range of motion, goniometer	محدوده حرکت، زاویه سنج
reconstruction	بازسازی
reconstruction procedures	رویه‌های بازسازی
Red blood cells (RBCs)	سلول های قرمز خون
reflex arcs, knee	قوسهای بازتابشی، زانو
Regenerative Medicine (TERM)	طب احیا کننده (TERM)
regulatory	تنظیمی
regulatory framework	چارچوب تنظیمی
rehabilitation	توانبخشی
Reinnervation.	عصب بخشی دوباره
release	رها شدن
released platelets	پلاکت‌های آزاد شده
remodeling phase	مرحله ریمودلینگ
reoccurrence, ACL tear	عود کردن، پارگی رباط صلیبی قدامی
response	واکنش
response, impaired healing	پاسخ ، درمان ناقص
revascularization	عروق (خون رسانی)
revascularization response	واکنش باز کردن مجدد عروق
Revascularization.	باز کردن مجدد عروق
risk, damage of	خطر، آسیب
robust inflammation	تورم قوی
rodents	جوندگان
role	نقش
role, wound repair	نقش، ترمیم زخم
Rolimeter	رولیمتر
Rotator cuff tendon	تاندون روتاتورکاف
Ruffini corpuscles	گلبول رافینی

S

scaffold formation	شکل گیری داربست
Scratch test	تست خراش
SeeThromboxane A2 (TXA2)	ترومبوکسان آ۲ (TXA2)

Segond fracture	شکستگی همراه با کندگی قسمت خارجی کپسول
selection and validation	انتخاب و اعتبارسنجی
semitendinosus tendon	تاندون سمی تندینو
semitendinosus tendon grafts	گرافت های تاندونی سمی تاندینو
shapes	اشکال
signaling molecules	مولکولهای سیگنالینگ
single/double bundle	بسته تکی /دوتایی
skeletal growth	رشد استخوانی
Skeletal maturity effect.	تاثیر بلوغ اسکلتی
skin wound healing	ترمیم زخم پوست
spectromorphometric analysis	تجزیه و تحلیل اسپکتروموروفومتریک
SPONGE/CPC-GEL	اسفنج/ CPC-GEL
SPONGE/ECM	اسفنج/ ماتریس برون یاخته‌ای
sports-specific risks	خطرات خاص ورزشی
statistical analysis	تجزیه و تحلیل آماری
stress shielding	محافظت در برابر استرس
stretchability	کشش پذیری
Stretchability, ACL	کشش پذیری، رباط صلیبی قدامی
structural properties	مشخصات ساختاری
structure	ساختار
surgery	جراحی
surgery rate	میزان جراحی
surgical treatment	درمان جراحی
surgical technique improvement	بهبود روش جراحی
suture technique	تکنیک بخیه
sutures	بخیه
synovial thickness, MRI	ضخامت زلالی، MRI
synovial tissue, nerve fibers	بافتهای زلالی، الیاف عصبی
synthetic grafts	گرافت های مصنوعی
synthetic materials	مواد مصنوعی
Synthetic materials, ACL	مواد مصنوعی، رباط صلیبی قدامی
synthetic replacement	تعویض مصنوعی

T

T lymphocytes	لمفوسیت‌های تی
T lymphocytes, ligament healing	لنفوسیت‌های تی، درمان رباط

T suppressor lymphocytes	لمفوسیت‌های جلوگیری کننده تی
T1–T2 dilemma	مساله T۱-T۲
tanner I and II	تانر اول و دوم
tears	پارگی
tendon graft	گرافت تاندون
tendon-bone healing	ترمیم استخوان-تاندون
Tensile failure testing	تست عدم کشش
tensile strength	استحکام کششی
Thrombocytes.	ترومبوسیت‌ها
Thromboxane A2 (TXA2)	ترومبوکسان آ۲ (TXA2)
timing of cellular involvement	زمان بندی درگیری سلولی
Tissue Engineering and Regenerative	مهندسی بافت و پزشکی ترمیمی
tissue injury	جراحت بافت
Tissue engineering	مهندسی بافت
Transforming growth factor beta	انتقال عامل رشد بتا
Translational medicine	پزشکی کاربردی
transosseous	قطعات
transphyseal ACL reconstruction	بازسازی رباط صلیبی قدامی ترانس فیزیال
treatment	درمان
triad of	سه گانگی
two-dimensional cultures	محیط های کشت دو-بعدی
two-way principle	اصل دوسویه
TXA2.	.TXA2
type I collagen	نوع I کلاژن

U

ultrastructure	فراسازه
use, hamstring/patellar tendon	کاربرد، تاندون همسترینگ/ کشکک
uses	کاربردها

V

Vascular endothelial growth factor (VEGF)	عامل رشد اندوتلیال عروقی
vascularity changes	تغییرات آوندی
VEGF-treated grafts	گرافتهای درمان شده با فاکتور رشد عروقی
viscoelastic properties	خواص ویسکوالاستیک
Visual analog scale	مقیاس آنالوگ بصری
vs. allograft	در مقابل آلوگرافت‌ها

vs. collagen scaffold	در داربست کلاژنی
vs. PRP	در مقابل پلاکت درمانی
vs.non-PRP group, porcine model	گروه بدون پلاکت درمانی، مدل خوکی
vulnerable persons	افراد آسیب پذیر

W

waviness/crimp, photomicrograph	عکس میکروسکوپی، چین و شکن
weaknesses of	ضعف
White blood cells (WBCs)	گلبولهای سفید خون (WBC)
White blood cells, wound healing	سلول های سفید خون، ترمیم زخم
with and without BMSCs	با و بدون BMSC
with red blood cells	گلبول قرمز
Wolff's law	قانون ولف
wound	زخم
Wound healing	ترمیم زخم
wound healing process	فرآیند درمان زخم
wound sites comparison	مقایسه محلهای زخم