



DR. JOHAN

MBBS, MRCS (UK)

Master of Surgeons
(M.S) (Singapore)

Fellow of Royal College of
Surgeons FRCS (Orthopedics
and Trauma) (Glasgow) (UK)

Fellow of International College
of Robotic Surgeons (FICRS)

Fellow of Minimal Access
Surgeons (FMAS)

Fellow of Indian Association of
Orthopedic Surgeons
(FIAOS) (Hip and Knee
Arthroplasty)

Member of American
Association of Orthopedic
Surgeons (AAOS)

Member of the International
Society of Fluorescein
Guidance Surgery MISFGS

Diploma of MAS, MWALS,
MAO (Spine)

CONTACT

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Curriculum Vitae

MBBS graduated 1998 University Of Sriwijaya Indonesia

Internship 1998-2001 rotation at internal medicine, surgery, O&G, Pediatrics, all subspecialties including Orthopedics and Trauma.

2001-2007 Resident in Royal Army Hospital in cardiology wards, ICCU, electrophysiology, echocardiography and interventional radiology, medical oncology wards, hematology outpatient clinics, surgery wards, orthopedics and trauma and emergency and accident. Deployed for disasters area such as earth-quake and flooding area all over Indonesia as an active surgeon.

2007-2009 National University Hospital Singapore

Working as clinical resident in General Surgery departments. (Basic specialist trainee as general surgeon and orthopedic and trauma).

2010 Passed Membership of Royal College of Surgeon (UK) and master of Surgery (Singapore)

2010-2013 registrar in orthopedics and trauma National University Hospital of Singapore (advanced specialist training and sub-specialist training).

2011 Pass all the Bar Exam and granted diploma in fellowship of royal college of surgeons FRCS (ORTH&TR) (Glasgow)

2013-2020 Consultant in Singapore General Hospital in Surgery and Orthopedics subspecialty

2022- now Private practice in Orthopedics opening 6 clinics Singapore (sold investor in 2023) and 2 clinics in Indonesia and upcoming hospital in Jakarta and Bali.

2024 completed fellowship in hip and knee arthroplasty from India association with the additional hands-on training for genicular arterial embolization. (GAE) as the honorary fellow of interventional radiologist in GAE.

2025 passed the training in Robotic Surgery as robotic Surgeon (Da Vinci system), Minimal Access Surgery (both fellowship and diploma)

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Research, patents and publications

Despite my hectic surgery activities, I still immerse myself deeply in various research in orthopedic especially osteoarthritis and spine issues.

I have a patent granted by Singapore Intellectual Property of Singapore (IPOS), with title: Autologous growth factors, the preparations and applications in the treatment of osteoarthritis as the potential of DMOAD.

Few other patents are on the pipelines, pending approval;

1. Heptadomain megabody™ as the fusion of multiple single-domain, variable heavy domain, heavy chain only (VHH) for multiple epitopes conjugated by nanoparticle PLGA as a novel Ortho-biology strategy toward a true DMOAD
2. Intra-discal High-Frequency Ultrasound for Degenerative Disc Disease: A Seamless Sequential Ex vivo and In vivo Porcine Study.
3. Intra-discal applicator that generates high-frequency ultrasound with variable and adjustable dose-matrix, power, continuity, and the duration for disc bulging (hernia nucleus pulposus) as dual modality for disc volume shrinkage and annular lesion sealant.
4. Autologous fibrinogen and pro-thrombin preparation to use as the sealant for the annular tear in degenerative disc disease resulting in disc prolapse.
5. PBMC-derived (peripheral blood mononuclear cells)-chondrocytes, an induced pluripotent stem cell (iPSC) with scaffolds generated by 3D printing as the modality for cartilage correction in osteoarthritis of the knees.

Keynote speakers

1. World Orthopedic Conference 2024, Madrid, Spain, title : RCT on the adipose-derived stemcells in the treatment of knee osteoarthritis.

2. World Orthopedic Conference 2025, London, England: Title : Original Research Article (VHH-with multiple-paratopes as a potential DMOAD).

3. The second world congress of Physical Medicine and Rehabilitation 2025, London, England

The combination of transcutaneous electrical nerve stimulation, static bike and application unloader knee braces in the reduction of knee pain, reduce stiffness and increase functionality in knee OA.

4. Congreso Cirujanos De Columna Del Caribe, Mexico city, Mexico 2025. Title : Ultrasonido intradiscal de alta frecuencia para la enfermedad degenerativa del disco: un estudio secuencial continuo ex vivo e in vivo en porcinos.
5. VENTI CONGRESS, Tokyo, Japan, 2024, The application of genicular artery embolization in the osteoarthritis patients with peripheral vascular diseases. A case series.
6. Regenerative medicine Asia Congress, Manila 2024. The application of orthobiology in osteoarthritis as the regeneration strategy for patients that too early or have contraindication for knee or hip.arthroplasty.
7. 11th Conference of GASICON 2024, the utilization of intra-discal ozone, what is the safety dosage, toxicity and efficacy.
8. Etc.

Publication or submitted transcripts- pending publication:

1. The activation of alpha granule secretion of platelets using special nanotechnology for knee osteoarthritis
2. Photomodulation to enhance the platelet count in PRP for knee osteoarthritis
3. The application of autologous growth factors, methodology and preparation to regenerate cartilage and treatment of osteoarthritis without knee arthroplasty
 4. Biodegradable and durable novel nano materials capable of penetrating cartilage, extracellular matrices and synovial tissues in joint osteoarthritis.
 5. Nanoparticle-drug enriched to penetrate avascular cartilage damage in knee osteoarthritis.
 6. Sequencing of bispecific single domain VHH antibody with paratopes that targeted multiple epitopes in osteoarthritis.
 7. Micro RNA in treatment of osteoarthritis without arthroplasty
 8. Combination of human fibrinogen and thrombin in degenerative disc disease in interspine disc degeneration.

9. Implantable nano-device for bone-on-bone knee osteoarthritis as the body load-absorber for late stage osteoarthritis for knees and hips
10. Triplewave Discectomy, new paradigm in treating spinal stenosis without surgery.
11. Heptadomain megabody™ as the fusion of multiple single-domain, variable heavy domain, heavy chain only (VHH) for multiple epitopes conjugated by nanoparticle PLGA as a novel Ortho-biology strategy toward a true DMOAD
12. Intra-discal applicator that generates high-frequency ultrasound with variable and adjustable dose-matrix, power, continuity, and the duration for disc bulging (hernia nucleus pulposus) as dual modality for disc volume shrinkage and annular lesion sealant.