

Cellulitis versus Acute Osteomyelitis: Diagnostic Dilemma and Complications

Shahidul Islam

Ad-din Women's Medical College Hospital Department of Orthopedics & Spine Surgery Dhaka, Bangladesh









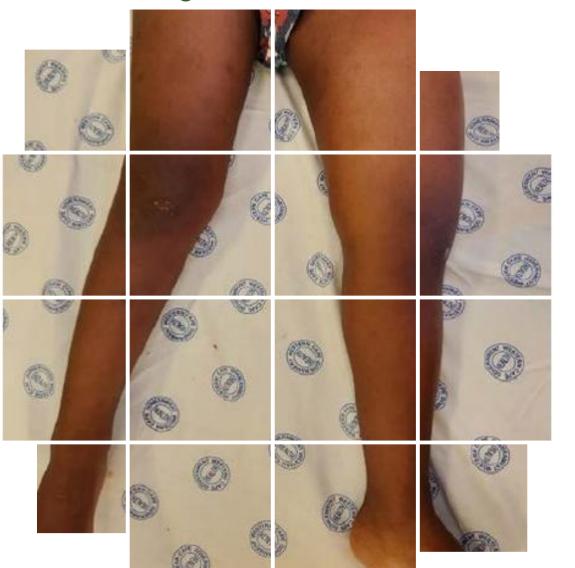
Introduction



Acute osteomyelitis in children often masquerades as cellulitis, leading to delay in proper treatment, which might cause complications.

Understanding

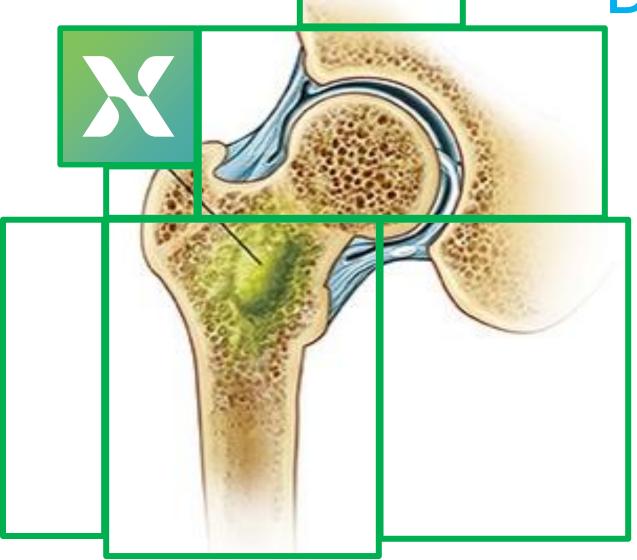
Osteomyelitis and Cellulitis











Osteomyelitis, first described by Hippocrates, is a bone disorder characterized by an inflammatory process of bone involving the bone marrow, bone cortex, periosteum and sometimes surrounding soft tissue, which often results in bone destruction.

Epidemiology & Demographics



There are several studies related to incidence of osteomyelitis, but we found no study conducted in Bangladesh

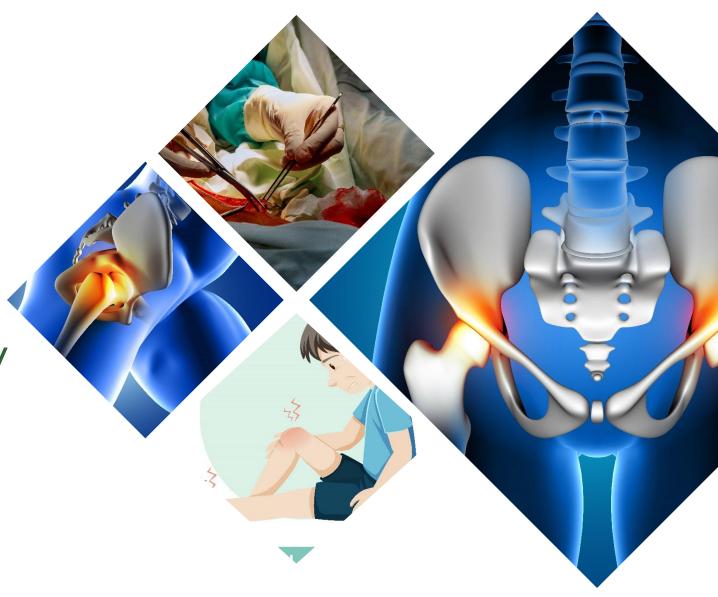


According to a study by Harvard University, 2016, the incidence is 2 - 13 per 100,000 children in developed countries.

- •Osteomyelitis is more common in younger children, usually five years and under, although it can occur at any age.
- •Boys are more often affected than girls. (Johns Hopkins Medicine, 2021)

Causes of Adult Osteomyelitis

In adults, osteomyelitis typically develops as a result of open wounds caused by fractures, surgical interventions, or a combination of both.



(Garcia del Pozo et al., 2018)



It is seen in immune compromised patients and elderly individuals as a result of an increased chronic diseases,



- Vascular diseases
- Peripheral neuropathy
- Degenerative joint diseases requiring arthoplasty
- Diabetes.

(Peker, Wei and Siegal, 2019)

Route of disease spread

Option 1

Hematogenous route of infection through bacteremic seeding of bone from a distant source of infection.

Option 2

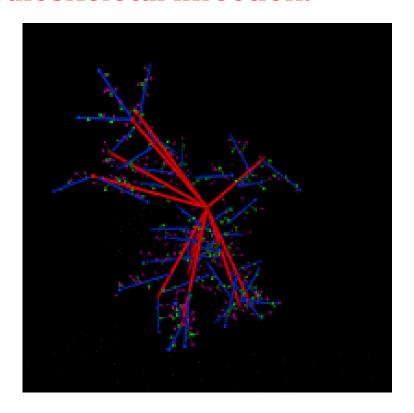
Contiguous spread from surrounding tissue and joints.

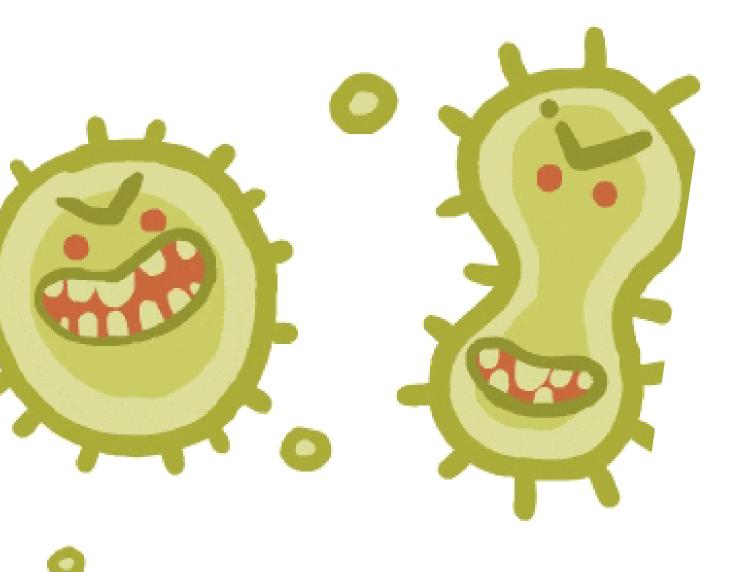
Option 3

Direct inoculation of bone from trauma or surgery.

Thingsaker, Urbane and Pavare (2021) stated that

Acute hematogenous osteomyelitis (AHO) is the most common pediatric musculoskeletal infection.





Causative organisms

According to Maffulli et al. (2016):

- Staphylococcus aureus and Staphylococcus epidermidis (most common).
- Other relevant bacteria:
 Enterococcus spp,
 Streptococcus spp.
- Fungi: **Candida** and **Aspergillus.**

Clinical Features

Local Swelling

Fever

Pain

Investigations:

- ☐ Complete blood count (CBC)
 - Erythrocyte sedimentation rate (ESR)
- C-reactive protein (CRP)
- ☐ Blood culture (C/S)
- ☐ X-ray











80% of patients presenting within the first two weeks of onset infection will have a normal radiograph.

(Jaramillo, 2011)











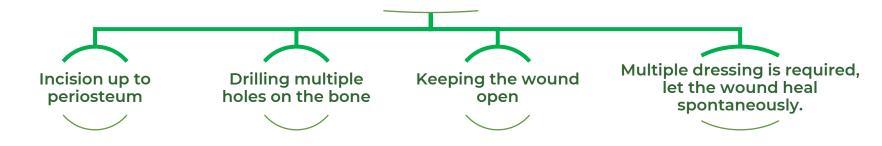


Treatment

- From suspicion of diagnosis, broad spectrum antibiotic is started. After getting the blood C/S report, antibiotic might be changed.
 - If the patient is improved, conservative treatment is continued.
 - If the condition is not improved, we should go for surgery.



Surgery in Acute Osteomyelitis



CELLULITIS

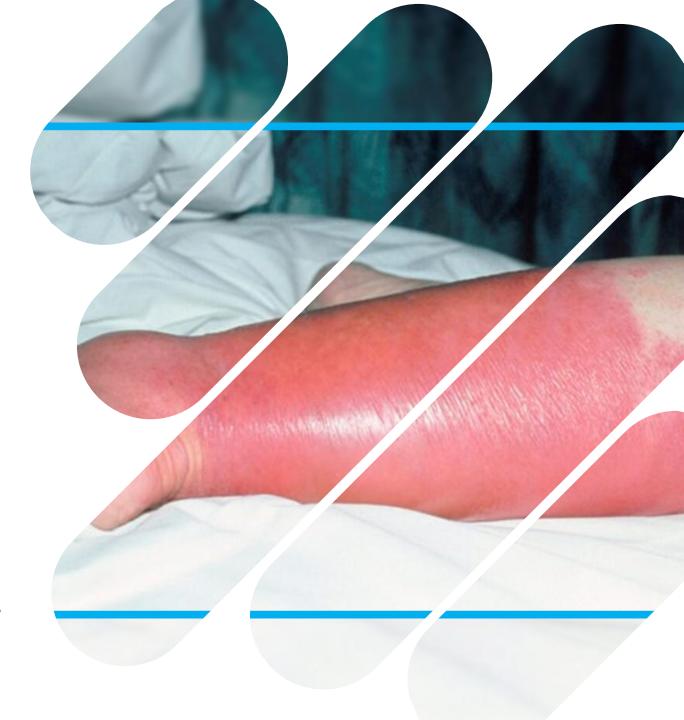
Definition: Cellulitis is simply defined as an acute infection of the skin involving the dermis and subcutaneous tissues.

(Sullivan and de Barra, 2018)

Epidemiology and Demographics

- Incidence rate: 24.6/1000 person-years.
- A higher incidence in males of all ages.
- Incidence increased with increasing age.

Ellis Simonsen et al., 2006



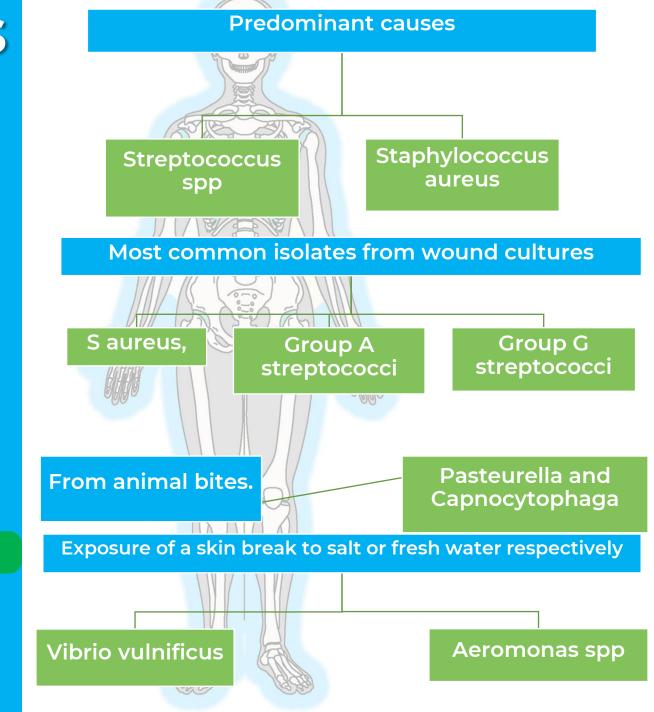
Clinical Features

(Raff and Kroshinsky, 2016)

- 1. POORLY DEMARCATED ERYTHEMA.
- 2. EDEMA.
- 3. WARMTH.
- 4 TENDERNESS.

Causative organisms

(Sullivan and de Barra, 2018)



Investigations

- Complete blood count (CBC)
- (ESR) Erythrocyte sedimentation rate
- C-reactive protein (CRP)
- Blood culture (CS)
- X-ray
- Musculoskeletal Ultrasound
- Wound swab culture



Treatment

Conservative Treatment:

First, broad-spectrum antibiotic is given.

If symptoms subside, continue the conservative treatment.

If condition deteriorates, go for surgical approach.

Surgical Treatment:

- Fasciotomy is done.
- Keep the wound open for multiple dressings.
- Secondary closure/skin grafting is done after eradication of infection.



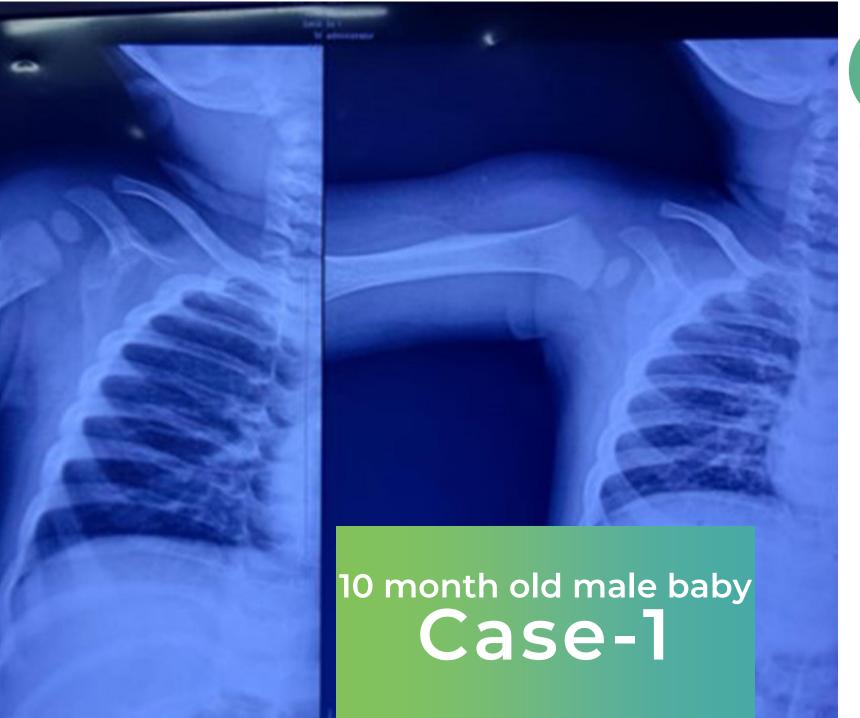
Two Cases of Osteomyelitis Misdiagnosed as Cellulitis





A 10 month old male baby, was admitted in Dhaka Medical College Hospital with swelling of right upper arm.

His condition was diagnosed as cellulitis and a small incision was done near axilla to drain fluid.







His condition did not improve, rather deteriorated. So, his parents did a repeat X-ray of affected limb and came to our hospital.



The second X-ray showed a sequestrum along the middle of humerus which indicates the case has turned from acute osteomyelitis into chronic osteomyelitis.

We advised the parents to admit the baby, but they failed to follow up.

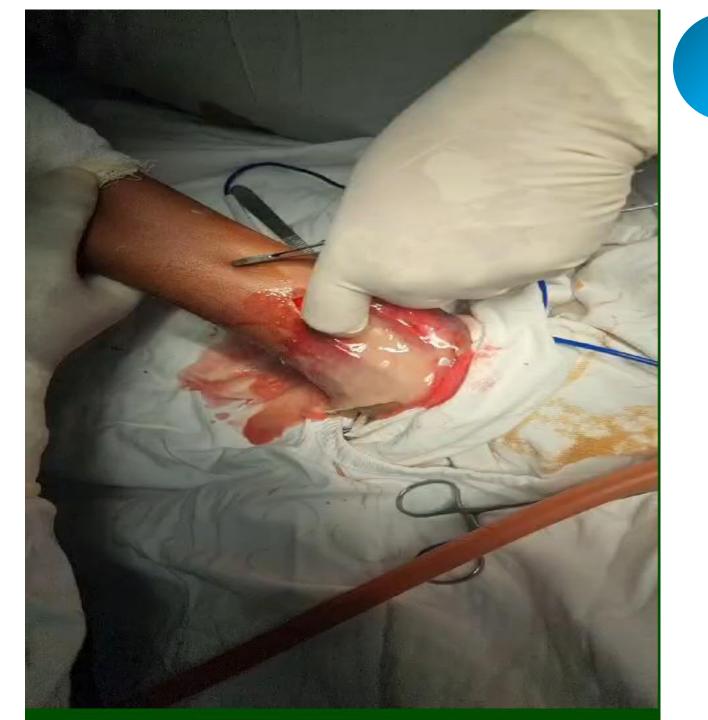


A 11 year old boy was admitted in the department of Pediatrics in Ad-din Women's Medical College, with pain and swelling of left arm. After evaluation, his condition was diagnosed initially as cellulitis, then septic arthritis.

His ESR and CRP were raised. So he received broad spectrum antibiotic. After several days, blood CS was done.

11 years old male baby Case-2





His condition remained unchanged, so he was referred to our department. We diagnosed him as a case of acute osteomyelitis and decided to perform surgery.

During surgery huge amount of pus came out from the affected site.

11 years old male baby Case-2

After surgery, his wound was kept open and daily dressing was done up to 21 days.

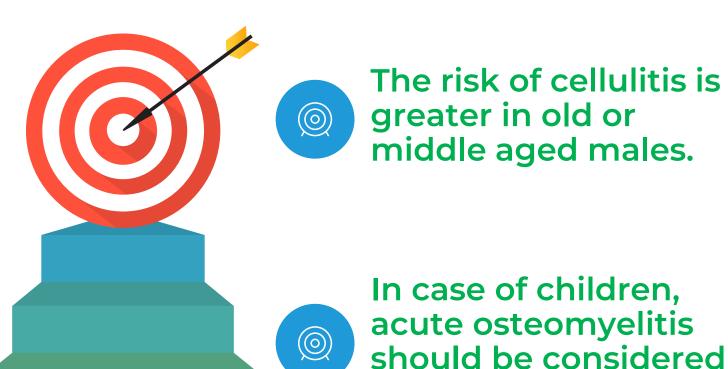


The boy was discharged after 21st POD with appropriate medication and advice.

CONCLUSION

Acute osteomyelitis and cellulitis initially may present as same but there are some key differences.

Acute osteomyelitis is mainly a disease of young children, with a male predominance. Adults are usually affected when they are immunocompromise d or as a result of open fracture.



first.

Reference:

- Ellis Simonsen, S.M., van Orman, E.R., Hatch, B.E., Jones, S.S., Gren, L.H., Hegmann, K.T. & Lyon, J.L., 2006. Cellulitis incidence in a defined population. *Epidemiology and Infection*, 134(2), pp.293-299. doi:10.1017/S095026880500484X.
- Garcia del Pozo, E., Collazos, J., Carton, J.A., et al., 2018. Factors predictive of relapse in adult bacterial osteomyelitis of long bones. *BMC Infectious Diseases*, 18, p.635. Available at: https://doi.org/10.1186/s12879-018-3550-6.
- Harvard University (2016) Prevalence of osteomyelitis (infection of bone) Human Homo sapiens BNID 117073.
 Bionumbers. Available at: https://bionumbers.hms.harvard.edu/bionumber.aspx?id=117073 (Accessed: 14 November 2024).
- Huang, S., Wen, J., Zhang, Y., Bai, X. and Cui, Z.K., 2023. Choosing the right animal model for osteomyelitis research: considerations and challenges. *Journal of Orthopaedic Translation*, 43, pp.47-65.
- Jaramillo, D. (2011) 'Infection: musculoskeletal', *Pediatric Radiology*, 41(Suppl 1), pp. S127–S134. doi:10.1007/s00247-011-2001-y.
- Maffulli, N., Papalia, R., Zampogna, B., Torre, G., Albo, E. and Denaro, V., 2016. The management of osteomyelitis in the adult. *The Surgeon*, 14(6), pp. 345-360.
- Momodu, I.I. (2023) Osteomyelitis, StatPearls [Internet]. Available at: https://www.ncbi.nlm.nih.gov/books/NBK532250/ (Accessed: 11 November 2024).
- Osteomyelitis (2021) Johns Hopkins Medicine. Available at: https://www.hopkinsmedicine.org/health/conditions-and-diseases/osteomyelitis (Accessed: 07 November 2024).
- Peker, D., Wei, S., & Siegal, G.P., 2019. Bone pathology for hematopathologists. *Surgical Pathology Clinics*, 12(3), pp.831–847. Available at: https://doi.org/10.1016/j.path.2019.03.007.
- Raff, A.B. and Kroshinsky, D., 2016. Cellulitis: a review. *JAMA*, 316(3), pp.325-337. https://doi.org/10.1001/jama.2016.8825.
- Sullivan, T. & de Barra, E., 2018. Diagnosis and management of cellulitis. *Clinical Medicine*, 18(2), pp.160-163. doi:10.7861/clinmedicine.18-2-160.
- Thingsaker, E.E., Urbane, U.N. & Pavare, J., 2021. A comparison of the epidemiology, clinical features, and treatment

My Upcoming Conferences

Pacific Orthopedic Association, to be held from 9th to 12th April, 2025 in Cairns, Australia. By the grace of almighty Allah, all of them got accepted (3 for podium presentation, 2 for poster presentation).

For Global Spine Congress, 2025, I submitted 3 abstracts, 2 of which were accepted for poster presentation. The congress will take place on from 28th to 31st May, 2025, in Rio de Janeiro, Brazil.

For APOA, 2025, the following topics were accepted:

Podium Presentation:

- 1) Epidural PRP Injection: An Alternative Treatment of Spinal Pain
- 2) Advanced Osteoarthritis of Knee: New Treatment, New Hope
- 3) Treatment of Avascular Necrosis of Femoral Head with Preserving Natural Joint by Laser Augmented PRP



Poster Presentation:

- 1) Langerhans cell histiocytosis in Lumber spine A rare case report
- Diagnostic Dilemma between Telangiectatic Osteosarcoma (TOS) & Aneurysmal Bone Cyst







Mindson No. (888-038)

Title. Treatment of the season Research Personal Front with Properties National Joint by Lower Augmented PRP.

Proceeding Author, Fed. Statistic liters, Drivenius and Spine Burgery, Admin Women's Medical College Propriet, 2, Rendeling Score, Dada, Respirateds, 1977, decimal Science Space, page 1971 678 688

Co Addisons.

Marks of Proceedalities, One Proceedation

Cologogy of Proceedation, His

Selection State

Assessed research (ARE), also become an enhancementation detailed appropriate internative of place from death due to impaired bland apply. Traditional fractionals allow require acquired information, such as over descriptions in the last success.

We alterated to evaluate the officery of platetestate place or (PEP) consistent with lower purellane regarding improved naturems for tap RAS patients.

Materia.

This daily invariant II sign diagrams fruith ADE, and whether conservate interest to flow results. First, intracticate leave pursuit or non-performed in the affected highlight. The PRF property from the patient's constaining, was injected. District and sold administration are constanted at improving all fruitness, and in page participates. District and a simple page and fruitness. District measures installed pairs with JAES states, and an estimated between EXAS.

Bereite.

Patents requirement on anterior officed. Significant point relations are also word, with relation bendered improvement. X may executed increased units uponly and more horougeness requestionly.

Dispussion.

Analysis identification of positive malasses in using PRP for leading hip AVA. By incorporating inhometicates have purchase with PRP) we emperior and a leader yearst.

Complies land.

Contining inhometricals: how pureature with PRP shows promising results for high MS breakword, with significant pain mind (Associated and multi-signal improvement). This minimally income approach could provide in a great alternation to surgery, deleging or more how involving the count for high replacement.







Michael Ro. 688-0388

Tills. Advanced Outcombattical Syste New Yorkmed, New Paper

Pennarikag Polina - Frd. Statistici biore, Schoupeton and Spino, Mistin Demonstribution College Hospital, S. Reva Magistane, Shocks, Saler Strade Fid. Respirates, 1917, detention Managing and areas, 1919-1919.

Go Adliante.

Marks of Propositionics, Onl Proposition

Cologory of Proceedations, Know

Reference Company

Remoderativité (KDA) is a correra dispensative juid descrite consiste pais, information, and reduced modelly. I sufficient les MARIA and informational modelles produced in the MARIA pair distribution, and reduced in produced in the continued of the produced in the continued of the pair distribution is a strength of the transport of the pair of the continued of the pair of the

This study replaces the consistent are of PEP and inhospitudes large parenting to breating extraorabilities DA.

Statement ...

Verscheitel hid 12 been seh greit 4 KSA. Interetisie beer panion abegreits schapes HP van giver zeiter behilden. In stansperiil deues, only HP van gives. Salarmen annomensamilig ped tradment Konylindings and Vesal Andrepe Basin (AA).

Barrella

The contribution of PEP and loans for any led to significantly growth in present with in principal action, business, and continge regressation component in PEP states. In contrast of contribution, significant satisfaction in supercurses for a local to 2 contribution. It requests to the contribution of the 2 contribution of the contribution of t

150 more from

In other journals PEP indicated to be effective for which resolvate KDA. Dur shady shows that PEP with been pureless was reflective for advanced or grade 4

Combinden.

Executable PEF nationare for appreciation, providing, retrievally invasive involved to KCB, refering a specie pain rolei, enterward joint Exestion, and before nating regeneration from PEF atoms. This contrieval approach for ECB consequences not approach for the research and principles of contrieval approach for ECBs.

нам том и со сопроводительного из из тору и том оних поверхного учественную интерревательную







Alle Armel Blog (ARREST MA)

Titles. Spatiant PSP impositors the Attenuation Treatment of Report Pain

Peacarting Rollins. Fed. Statistic blove, Discoprine and Spine Engage, Admin/Viercer's Medical College Hospital, Addin Viercer's Historic College Hospital, 2, New Historica, Durin, Respirator, 1717, detailed Hospital, 2, New Historic College Hospital, 2, New Historic College Hospital

Cor Addition to

Marks of Propositation, One Proposition

Colonery of Presundation. Forestrick, Engistries or Catalatines.

Independent land

Polapsed interaction of the IPES is a convene course of less bank pairs, bank pairs, wash pattered embashings which significantly offer quality of life.

Traditional featurement include conservation it native end, physicil energy equilated who sid imposits seem transports. Formula, plainted this place or IPEP (see some yeal on a patternial featurement approach as placed as partial information patternial properties are proposed as a patternial featurement in patternial featurement in the properties and produced indicates and approach of the size of leavest featurement.

Properties of the partial patternial data of the size of leavest data of the size of leavest data of the size of leavest data.

Made at a

2001 policies with reprintments protoporal interventional data contracted. Diagnosis accountment by MVI. 20 of autoing on PVIP was injusted in equita of area of the offented data book. Taked 3 decree some given, in 1 months intervent. Clinical autoressome accountment uniquities Visual Books, State (ASS) for pairs. Hoperal MVII care determine contracted autopolic varieties are optional feativest income account.

Barrella...

Patentia reserving equitated PEP observed significant impressment in functionality and VEX source. First treatment MRI income cases observed a restaution in function dates.

Microsoften.

Patients receiving epitianal PRF showed a promising automore regarding pate coloil and Excellenal Improvement.

Complexion.

Epitaral autoingua PEP injection appear is in a soft and effective heatment for a surge of spins interview, proximy significant point will and featured in processors. This interpretation is present a great after soften featurests, with the capability of tissue feature and expressions. Further states with larger time following an expression.

лике том и интерревания или и исторую то населеную и поступата установремия и <mark>подаржения</mark>:







Mindred Rev. 6889-0340

Titles, Langue bases Cell Histonistants in Lancium States at Albert Case Flour 1.

Peacarding Rollins, Fed. Statistic biors, Décapolins and Spine Bargery, Adults Viercer's Medical Cologo Hospital, Rainin Viercer's Hesital Cologo Hospital, 2, Bost Highinary, Dorlan Harginstein, 1911, desirabilitation (Spinellands, 1971) 1911 (1981)

Cos Antilemba.

Made of Presentation, Billiotic Presentation

Colonery of Procuedation, Creatings

No. of Contract of

Langerhams and Malauphain (CCN) is an inflammation profession assembly administrate (mutational parameter in the MAPA same purhampy (AAPA). Langerhams and inflamphasis in a new lines of that are interespectations or assembly include incommunication places in the langerham and an included report from the langerham and appear in the lange

-

A Til your old large control from complete to all local quals with intrinsic anticipate with the control of the state of the control of the state of

Therates profit in second Louis Ferragin profession approach. We Love look pair near disrepresent just after operation & mensignal status was in present offer 200 steps of operations & policy area attributed with the historical staty of the recoverable effective. So positionally was also being seen at part of the recoverable effective.

Barrella...

After 2.8 grows follow up not local recommensurate surfaces.

Microsophia.

Proper histological study is required to establish the diagrams of spiral LCH.

Completion.

In case of larging spire, LDA suggey should be considered if there is now singled defind or histological diagnosis is conframental. For him serialist rescales now in some in already rescaling supports and prevent load resources.

меня меня на примучения в наста в настаную и меня на на примучения учество учество на <mark>посущения на</mark> д







Minhael No. 688-238

Tilla. Diagnostis Dilement indones Televigiestatis Districurences (ICSE) K. Bressyerot Nove Cycl.

Proceeding Author. First State of State of States and Spine Surgery, Adults Wilesen's Medical College Propriet, Adults Wilesen's States College Propriet, Adults Wilesen's States of States of States of Spiness and Spiness a

Co Adliante.

Marie of Presentation, Billioter Presentation

Collegery of Proceedation, Spice

Introduction.

Triangles between the common of \$100 of the spine in our numering only \$1000 of all privary subsequences. In Regulation have in success equal of \$100. We obscure the original polynogical between and decade the treatment option of \$100 of the largest presenting in a pump way.

Malaut...

This absence is not year associated in Department of College Stages in Ad the Manuals, Maribad College St No.-plied during the present of August, 2016 in August, 2016. We shill little, 1979 of the rest of August, 2016 in August, 2016. We shill little, 1979 of the rest of the august of the August, 2016 in August, 2016

Bereite

Though we present brough the courts of diagrands difficulties, at leaf we received the content diagrants for agic which patient and the executable backward.

Discussion.

The offer year associated with the diagrams of TOS becomes emphasized in literature. In particular, as ARC is alread including, ideals from TOS our ediagraph.

Combolen.

The current diagraphs of TOS and an accordal high implical recombedities.

лими техня не неворит име и вет и вет свру не то име, втор не повержения расситерация на втор невой в



Feb 20, 2025, 6:41 AM (4 days ago)









Dear Shahidul Islam,

PLEASE RESPOND TO THIS EMAIL CONFIRMING YOU HAVE RECEIVED.

We hope this message finds you well. On behalf of the organising committee of the 24th Congress of the Asia Pacific Orthopaedic Association, we are pleased to have you present your abstract at APOA2025 in Cairns, Australia from 9 – 12 April 2025.

Congratulations! Your paper has been selected for a podium presentation (maximum 6 minutes duration).

Friday 11th April, 4.58pm

Epidural PRP Injection: An Alternative Treatment of Spinal Pain

We will send you further details closer to the meeting regarding uploading your presentation.

If you require any further information or need assistance, please don't hesitate to get in touch.

We look forward to seeing you at APOA 2025 in Cairns, Australia!

Kind regards,

Alison Fallon & Cara McFarlane Secretariat for APOA 2025 Cairns



APOA2025 - IMPORTANT INFORMATION - ABSTRACT PODIUM PRESENTATION PROGRAM TIMES - Shahidul Islam Indox X



Thu, Feb 20, 8:57 AM (4 days ago)





APOA2025 Info

Dear Shahidul Islam,

PLEASE RESPOND TO THIS EMAIL CONFIRMING YOU HAVE RECEIVED.

We hope this message finds you well. On behalf of the organising committee of the 24th Congress of the Asia Pacific Orthopaedic Association, we are pleased to have you present your abstract at APOA2025 in Cairns, Australia from 9 – 12 April 2025.

Congratulations! Your paper has been selected for a podium presentation (maximum 6 minutes duration).

Thursday 10th April, 3.20pm

Advanced Osteoarthritis of Knee: New Treatment, New Hope

We will send you further details closer to the meeting regarding uploading your presentation.

If you require any further information or need assistance, please don't hesitate to get in touch.

We look forward to seeing you at APOA 2025 in Cairns, Australia!

Kind regards,

Alison Fallon & Cara McFarlane Secretariat for APOA 2025 Cairns



APOA2025 - IMPORTANT INFORMATION - ABSTRACT SHORT ORAL PRESENTATION PROGRAM TIMES - Shahidul Islam Indoor II





Fri, Feb 21, 4:05 AM (3 days ago)







Dear Shahidul Islam,

PLEASE RESPOND TO THIS EMAIL CONFIRMING YOU HAVE RECEIVED.

We hope this message finds you well. On behalf of the organising committee of the 24th Congress of the Asia Pacific Orthopaedic Association, we are pleased to have you present your abstract at APOA2025 in Cairns, Australia from 9 - 12 April 2025.

Congratulations! Your paper has been selected for a short oral presentation (maximum 2 minutes duration and 3 content slides).

Thursday 10th April, 3.58pm

Treatment of Avascular Necrosis of Femoral Head with Preserving Natural Joint by Laser Augmented PRP

We will send you further details closer to the meeting regarding uploading your presentation and the location.

If you require any further information or need assistance, please don't hesitate to get in touch.

We look forward to seeing you at APOA 2025 in Cairns, Australia!

Kind regards,

Alison Fallon & Cara McFarlane Secretariat for APOA 2025 Cairns





Dear Shahidul Islam.

PLEASE RESPOND TO THIS EMAIL CONFIRMING YOU HAVE RECEIVED

We hope this message finds you well. On behalf of the organising committee of the 24th Congress of the Asia Pacific Orthopaedic Association, we are pleased to have you present your abstract as an e-poster for the conference.

- . Langerhans Cell Histiocytosis in Lumber Spine A Rare Case Report
- . Diagnostic Dilemma between Telangiectatic Osteosarcoma (TOS) & Aneurysmal Bone Cyst

All e-posters will be available for delegates to view digitally during the conference in the exhibition area. E-poster authors are not required to present their poster.

Please follow the guidelines below to ensure that your e-poster is ready for presentation:

1. File Format:

Your e-poster should be submitted as a PowerPoint file using 16:9 dimensions.

2. Content and Layout:

- · Please use a simple, easy-to-read layout with large, legible fonts
- · Use high-resolution images and graphs to ensure clarity when the poster is viewed digitally
- · Please ensure that the text, images, and other content are clear and legible when displayed on a digital screen
- · Ensure that all text and images fit within the designated area of the e-poster
- Please use a maximum of 5 slides including the title slide and declaration slide
- Please DO NOT embed any videos
- The second slide must contain the COMPLETED declaration slide (see attached).

3. Font and Text:

- Use a font size that is readable on a screen from a distance (e.g., minimum of 24 pt for body text).
- · We recommend using sans-serif fonts (e.g., Arial, Helvetica) for clarity.

4. File Naming:

Please name and save your file using the following format: CATEGORY_FULL NAME_FRIST 4 WORDS OF ABSTRACTS

5. Deadline for Submission:

Please submit your e-poster by adjusting it HERE no later than Spm, Friday 14 March 2025 (Sydney, Australia time).

If the submitted file does not meet the criteria above, you will be asked to re-submit. Should you need any assistance, please do not hesitate to reach out by replying to this email.

We look forward to your e-poster presentation at APOA2025!

Alison Fallon & Cara McFarlane Secretariat for APOA 2025 Caims





For GSC, 2025, the following topics were accepted:



Poster Presentation:

- 1) Epidural PRP Injection: An Alternative Treatment of Spinal Pain
- 2) Dual Infection in Spine Tubercular and Pyogenic An Extremely Rare Case Report





May 28-31, 2025



ABSTRACT SUBMISSON CONFIRMATION

Dear Prof. Dr. Shahidul Islam,

Thank you for submitting an abstract to the Global Spine Congress (GSC) 2025, taking place May 28-31 2025 in Rio de Janeiro, Brazil.

Abstract Number: 2447

Abstract Title: Epidural PRP Injection: An Alternative Treatment of Spinal Pain

Presenter: Prof. Dr. Shahidul Islam

In order to view your submitted abstract or to submit another, please login to the abstract submission platform.

Changes to your abstracts will be allowed through the abstract submission deadline extended to September 26, 2024, at 23:59 CET.

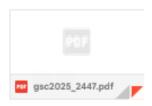
Notification letters will be sent to presenting authors by November 25, 2024.

Should you have any questions or queries, please do not hesitate to contact our Help Desk: abstractGSC@oic.it

We look forward to seeing you in Rio de Janeiro!

Global Spine Congress Organizing Team

One attachment . Scanned by Gmail ①



to me *







ABSTRACT SUBMISSON CONFIRMATION

Dear Prof. Dr. Shahidul Islam.

Thank you for submitting an abstract to the Global Spine Congress (GSC) 2025, taking place May 28-31 2025 in Rio de Janeiro, Brazil.

Abstract Number: 2449

Abstract Title: Dual Infection in Spine - Tubercular and Pyogenic : An Extremely Rare Case Report

Presenter: Prof. Dr. Shahidul Islam

In order to view your submitted abstract or to submit another, please login to the abstract submission platform.

Changes to your abstracts will be allowed through the abstract submission deadline extended to September 26, 2024, at 23:59 CET.

Notification letters will be sent to presenting authors by November 25, 2024.

Should you have any questions or queries, please do not hesitate to contact our Help Desk: abstractGSC@oic.it

We look forward to seeing you in Rio de Janeiro!

Global Spine Congress Organizing Team

One attachment · Scanned by Gmail ①





Sep 25, 2024, 5:11 PM





AbstractGSC <abstractGSC@oic.it>







ABSTRACT SUBMISSON CONFIRMATION

Dear Prof. Dr. Shahidul Islam.

Thank you for submitting an abstract to the Global Spine Congress (GSC) 2025, taking place May 28-31 2025 in Rio de Janeiro, Brazil.

Abstract Number: 2454

Abstract Title: Diagnostic Dilemma between Telangiectatic Osteosarcoma (TOS) and Aneurysmal Bone Cyst (ABC)

Presenter: Prof. Dr. Shahidul Islam

In order to view your submitted abstract or to submit another, please login to the abstract submission platform.

Changes to your abstracts will be allowed through the abstract submission deadline extended to September 26, 2024, at 23:59 CET.

Notification letters will be sent to presenting authors by November 25, 2024.

Should you have any questions or queries, please do not hesitate to contact our Help Desk: abstractGSC@oic.it

We look forward to seeing you in Rio de Janeiro!

Global Spine Congress Organizing Team

One attachment · Scanned by Gmail ①





@

Abstract Notification - Global Spine Congress - Rio de Janeiro, May 28-31, 2025



Fri, Nov 22, 2024, 9:22 PM 💮 🛖

AbstractGSC <abstractGSC@oic.it>





Rio de Janeiro, Brazil May 28-31, 2025



To the attention of: Prof. Dr. Shahidul Islam Presenting Author

Dear Prof. Dr. Shahidul Islam.

Thank you for submitting your abstract for the next edition of the Global Spine Congress (GSC), taking place from May 28-31, 2025, in Rio de Janeiro, Brazil. Your abstract was carefully reviewed by three to five distinguished reviewers. On behalf of the GSC 2025 Scientific Program Committee and as the officially appointed agency for AO Spine, we are pleased to inform you that your abstract has been

accepted for e-poster presentation

and will be published online in a special supplement of the Global Spine Journal.

In accordance with the program established by the Scientific Program Committee, please find below the details for your e-poster:

Abstract no: 2447

Abstract title: Epidural PRP Injection: An Alternative Treatment of Spinal Pain

Abstract no: 2449

Abstract title: Dual Infection in Spine - Tubercular and Pyogenic: An Extremely Rare Case Report

The best E-poster, as selected by the scientific program committee, will receive the Best E-poster Award which will be presented during the awards ceremony at the GSC in Rio. More information to follow.

Your e-poster

Posters will be displayed electronically in a designated area.

The e-poster template and upload details will be sent to you later.

