

## Publications du Centre de l'épaule, du coude et du membre supérieur (2025–2019)

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### 2025

- Edwards, P. K., Ebert, J. R., Blakeney, W. G., **Bauer, S.**, & Wang, A. W. (2025). Wearable Sensors for the Assessment of Functional Outcome Following Reverse Shoulder Arthroplasty: A Systematic Scoping Review. *Journal of Clinical Medicine*, 14(18).  
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- **Bauer, S.**, Blakeney, W. G., Mellal, A., Lannes, X., Moroder, P., & Walch, G. (2025). Forgotten ASAP-22: A Scapula-Inclusive Shoulder Ecosystem PROM — Pilot Study in Reverse Total Shoulder Arthroplasty and Related Pathologies. *JSES International*.  
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- Himer, N., Clavert, P., Mellal, A., Baulot, E., **Bauer, S.**, & Antoni, M. (2025). Factors associated with humeral stem extraction difficulty in revision shoulder arthroplasty. *JSES International*.  
<https://www.sciencedirect.com/science/article/pii/S2666638325001914>
- Shao, W., Shekhihi, A., Blakeney, W. G., Werthel, J. D., & **Bauer, S.** (2025). Translating Humeral Posture into Prosthetic Planning: BMI, HARA, and Simulated Range of Motion in an Altivate 135° Reverse Shoulder Arthroplasty Model. *JSES International*.  
<https://www.sciencedirect.com/science/article/pii/S2666638325001616>
- Kelly, J. G., Deane, T., Kelly, A., McNamee, C., **Bauer, S.**, & Blakeney, W. (2025). Medialization versus Lateralization of the Glenoid Baseplate in Reverse Shoulder Arthroplasty: Implications for Clinical Outcomes and Functional Performance—A Systematic Review. *Seminars in Arthroplasty: JSES*.  
<https://www.sciencedirect.com/science/article/abs/pii/S1045452725000598>
- Blakeney, W. G., Shao, W., Werthel, J. D., Wang, A., & **Bauer, S.** (2025). Normalized preoperative muscle volume correlates with shoulder strength at minimum 2 years after lateralized rTSA. *JSES International*.  
<https://www.sciencedirect.com/science/article/pii/S2666638325001707>
- **Bauer, S.**, Lannes, X., Shao, W., & Martin, J. (2025). *Identifying and treating pectoralis minor syndrome in women with breast hypertrophy, poor posture and diffuse shoulder symptoms*. *BMJ Case Reports*, 18(3).  
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- **Bauer, S.**, Mahloully, J., Tolosano, L., Moroder, P., Blakeney, W. G., & Shao, W. (2025). *From Grammont to a New 135° Short-Stem Design: Two-Hand Lever Test and Early Superior–Lateral Dislocations Reveal Critical Role of Liner Stability Ratio and Stem Alignment*. *Journal of Clinical Medicine*, 14(6), 1898.  
<https://www.mdpi.com/2077-0383/14/6/1898>

- Shekhbihi, A., Itoi, E., Dag, D., Blakeney, W. G., Walch, A., & **Bauer, S.** (2025). *The reverse shoulder arthroplasty angle may contribute to overt inferior inclination: comparison with alternative parameters.* *European Journal of Orthopaedic Surgery & Traumatology*, 35(1), 88. <https://link.springer.com/article/10.1007/s00590-025-04210-x>
- Da Silva, M. R., Van Tongel, A., Collin, P., Calvo, E., Demirhan, M., **Bauer, S.**, et al. (2025). *Core curriculum of shoulder and elbow surgery: the proposal from the European Society for Surgery of the Shoulder and Elbow.* *JSES International*, 9(2), 343–345. <https://www.sciencedirect.com/science/article/pii/S2666638324004523>
- Raubenheimer, K., Atkinson, M., Yan, M., Perret, M., **Bauer, S.**, Harries, D., et al. (2025). *Cemented vs. cementless stems for reverse shoulder arthroplasty for proximal humerus fractures: a registry analysis with patient-reported outcomes from a level 1 trauma centre.* *JSES International*, 9(2), 415–421. <https://www.sciencedirect.com/science/article/pii/S2666638324004201>
- **Bauer, S.**, Mahloulou, J., Tolosano, L., Blakeney, W. G., & Shao, W. (2025). *From Grammont to a New 135 Short-Stem Design: Intraoperative Two-Hand-Lever Test & Early Superior-Lateral Dislocations Reveal Critical Role of Liner Stability Ratio and Stem Alignment.* *Preprints.* [https://www.preprints.org/frontend/manuscript/a8873e19c0b7c2fcfa6974fd7a40b9b0/download\\_pub](https://www.preprints.org/frontend/manuscript/a8873e19c0b7c2fcfa6974fd7a40b9b0/download_pub)
- **Bauer, S.**, Levy, J. C., & Athwal, G. S. (2025). *Acute open reduction and internal fixation versus nonoperative treatment of scapular spine fractures after reverse shoulder arthroplasty: a propensity score-matched study.* *Journal of Shoulder and Elbow Surgery.* <https://www.sciencedirect.com/science/article/abs/pii/S1058274625001090>

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## 2024

- **Bauer, S.**, Blakeney, W. G., & Shao, W. (2024). *Correlation of Body-Mass-Index (BMI) and Humeral Abduction Resting Angle (HARA) and influence on reverse shoulder arthroplasty motion in silico.* *JSES International*, 8(6), 1363. [https://jsesinternational.org/article/S2666-6383\(24\)00346-3/fulltext](https://jsesinternational.org/article/S2666-6383(24)00346-3/fulltext)
- **Bauer, S.**, Walch, A., & Kremer, D. (2024). *Cuff Arthropathy, Scapular Spine Fracture Non-union, and Instability: Open Reduction, Internal Fixation & Simultaneous Reversed Shoulder Arthroplasty—A Case Report.* *Journal of Orthopaedic Case Reports*, 14(11), 162. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11546016/>
- **Bauer, S.**, Shekhbihi, A., Athwal, G. S., & Walch, G. (2024). *Reverse Shoulder Arthroplasty in Ankylosing Spondylitis with Partial Scapular Ankylosis.* *JSES International.* [https://www.jsesinternational.org/article/S2666-6383\(24\)00406-7/fulltext](https://www.jsesinternational.org/article/S2666-6383(24)00406-7/fulltext)
- **Bauer, S.**, Meylan, A., Mahloulou, J., Shao, W., & Blakeney, W. G. (2024). *Dialing the glenosphere eccentricity posteriorly to optimize range of motion in reverse shoulder arthroplasty.* *JSES International.* <https://www.sciencedirect.com/science/article/pii/S2666638324004006>

- **Bauer, S.**, Blakeney, W. G., Lannes, X., Wang, A. W., & Shao, W. (2024). *Optimizing stability and motion in reverse shoulder arthroplasty with a 135° neck-shaft-angle: a computer model study of standard versus retentive humeral inserts*. *JSES International*, 8(5), 1087–1094.  
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- Shekhbihi, A., **Bauer, S.**, Walch, A., Reichert, W., Walch, G., & Boileau, P. (2024). *The Trillat procedure: the man and the technique revisited through the lens of arthroscopy*. *EFORT Open Reviews*, 9(9), 923–932.  
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- Mellal, A., Mahloully, J., Guttman, C., Fröning, C., & **Bauer, S.** (2024). *Direct anterior bone block grafting for treatment of bone defects and dysplasia of the coronoid process*. *Unfallchirurgie (Heidelberg, Germany)*.  
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- Wang, A. W., May, A., Blakeney, W., **Bauer, S.**, & Ebert, J. (2024). *Clinical significance of intraoperative glenohumeral joint load evaluation using a novel humeral sensor in navigated reverse total shoulder arthroplasty*. *Seminars in Arthroplasty: JSES*, 34(2), 364–370.  
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- **Bauer, S.**, Neyton, L., Collin, P., & Zumstein, M. (2024). *The open Latarjet-Patte procedure for the treatment of anterior shoulder instability in professional handball players at a mean follow-up of 6.6 years*. *Journal of Shoulder and Elbow Surgery*, 33(4), 924–931.  
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- **Bauer, S.**, Blakeney, W. G., Meylan, A., Mahloully, J., Wang, A. W., & Walch, A. (2024). *Humeral head size predicts baseplate lateralization in reverse shoulder arthroplasty: a comparative computer model study*. *JSES International*, 8(2), 335–342.  
<https://www.sciencedirect.com/science/article/pii/S2666638323002864>
- Guttman, C., Mahloully, J., Mattille, D., Blakeney, W. G., & **Bauer, S.** (2024). *Direct anterior bone block grafting for coronoid bone loss and dysplasia*. *Video Journal of Sports Medicine*, 4(1), 26350254231191531.  
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- **Bauer, S.**, Blakeney, W. G., Wang, A. W., Ernstbrunner, L., & Corbaz, J. (2023). *Correction: Challenges for Optimization of Reverse Shoulder Arthroplasty Part II: Subacromial Space, Scapular Posture, Moment Arms and Muscle Tensioning*. *Journal of Clinical Medicine*, 12(22), 7004.  
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- Bensa, A., Palazzuolo, M., **Bauer, S.**, Blakeney, W. G., Filardo, G., & Riegger, M. (2023). *Resurfacing Hip Arthroplasty is a Safe and Effective Alternative to Total Hip Arthroplasty in Young Patients: A Systematic Review and Meta-Analysis*. *Swiss Medical Weekly*, 153.

- **Bauer, S.,** Collin, P., Zumstein, M. A., Neyton, L., & Blakeney, W. G. (2023). *Current concepts in chronic traumatic anterior shoulder instability*. *EFORT Open Reviews*, 8(6), 468–481. <https://eor.bioscientifica.com/view/journals/eor/8/6/EOR-22-0084.xml>
- **Bauer, S.,** Blakeney, W. G., Goyal, N., Flayac, H., & Corbaz, J. (2023). *Posterior Relevant Scapular Neck Offset (PRSNO) After Reverse Shoulder Arthroplasty Is A Key Player For Friction-Type Impingement And Motion*. *Journal of Shoulder and Elbow Surgery*, 32(5), e242. [https://www.jshoulderelbow.org/article/S1058-2746\(23\)00140-4/abstract](https://www.jshoulderelbow.org/article/S1058-2746(23)00140-4/abstract)
- Bensa, A., Palazzuolo, M., **Bauer, S.,** Blakeney, W. G., Filardo, G., & Riegger, M. (2023). *Resurfacing hip arthroplasty is a safe and effective alternative to total hip arthroplasty in young patients: A systematic review and meta-analysis*. *SWISS MEDICAL WEEKLY*, 153, 76S–76S. <https://www.mdpi.com/2077-0383/12/6/2093>
- **Bauer, S.,** & Ernstbrunner, L. (2023). *The evolution of reverse total shoulder arthroplasty—Where do we stand and what comes next?* *Journal of Clinical Medicine*, 12(5), 1945. <https://www.mdpi.com/2077-0383/12/5/1945>
- **Bauer, S.,** Blakeney, W. G., Wang, A. W., Ernstbrunner, L., Werthel, J. D., & Corbaz, J. (2023). *Challenges for optimization of reverse shoulder arthroplasty part I: External rotation, extension and internal rotation*. *Journal of Clinical Medicine*, 12(5), 1814. <https://www.mdpi.com/2077-0383/12/5/1814>
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- **Bauer, S.,** Dietz, B., Collin, P., Neyton, L., Blakeney, W., & Zumstein, M. (2023). *Open Latarjet-Patte-Procedure with Walch's technique: Tips, tricks and avoidance of complications*. *Unfallchirurgie (Heidelberg, Germany)*, 126(2), 155–160. <https://europepmc.org/article/med/36729204>
- **Bauer, S.,** Dietz, B., Collin, P., Neyton, L., Blakeney, W., & Zumstein, M. (2023). *Chronic posttraumatic shoulder instability*. *Unfallchirurgie (Heidelberg, Germany)*, 126(2), 145–154. <https://europepmc.org/article/med/36729203>
- **Bauer, S.,** Dietz, B., Collin, P., Neyton, L., Blakeney, W., & Zumstein, M. (2023). *Offene Latarjet-Patte-Operation nach Walch*. *Die Unfallchirurgie*, 126(2), 155–160. <https://link.springer.com/article/10.1007/s00113-022-01282-w>
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- **Bauer, S.**, Blakeney, W. G., Goyal, N., Flayac, H., Wang, A., & Corbaz, J. (2023). *Posteroinferior relevant scapular neck offset in reverse shoulder arthroplasty: Key player for motion and friction-type impingement in a computer model*. *Journal of Shoulder and Elbow Surgery*, 31(12), 2638–2646.  
<https://www.sciencedirect.com/science/article/abs/pii/S105827462200578X>
- **Bauer, S.**, Okamoto, T., Babic, S. M., Coward, J. C., Coron, C. M. P. L., & Blakeney, W. G. (2022). *Understanding shoulder pseudoparalysis: Part I: Definition to diagnosis*. *EFORT Open Reviews*, 7(3), 214–226.  
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- Coward, J. C., **Bauer, S.**, Babic, S. M., Coron, C., Okamoto, T., & Blakeney, W. G. (2022). *Understanding shoulder pseudoparalysis: Part II: Treatment*. *EFORT Open Reviews*, 7(3), 227–239.  
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## 2021

- **Bauer, S.**, Corbaz, J., Athwal, G. S., Walch, G., & Blakeney, W. G. (2022). *Lateralization in reverse shoulder arthroplasty*. *Journal of Clinical Medicine*, 10(22), 5380.  
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- Traverso, A., Friedrich, K. J., Reichert, W., & **Bauer, S.** (2021). *Large footprint bone cyst: Arthroscopic autologous cylinder press-fit with buddy anchor interference-fit for rotator cuff repair*. *Journal of Orthopaedic Case Reports*, 11(8), 71.  
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- Lannes, X., Traverso, A., Coron, C., Blakeney, W. G., & **Bauer, S.** (2021). *Partial rotator cuff repair with biceps rerouting and double tenodesis: An efficient and cost-effective biological superior capsular reconstruction*. *Video Journal of Sports Medicine*, 1(4), 26350254211016469.  
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- **Bauer, S.**, Coron, C., Lannes, X., Walch, G., & Blakeney, W. G. (2021). *Open Latarjet-Patte procedure for anterior shoulder stabilization: Critical steps and pearls for the Walch technique*. *Video Journal of Sports Medicine*, 1(4), 26350254211014201.  
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- Corbaz, J., Blakeney, W. G., Athwal, G., & **Bauer, S.** (2021). *The use of the comma sign and tissue for recognition, reduction, and stability during arthroscopic repair of combined anterosuperior cuff tears*. *Video Journal of Sports Medicine*, 1(4), 26350254211011183.  
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- Mareddu, E., Traverso, A., Laudato, P., & **Bauer, S.** (2021). *Bilateral isolated C5 paralysis of the shoulder: Atypical presentation of a transdiscal C4-C5 cervical spine fracture*. *BMJ Case Reports CP*, 14(3), e236323.  
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  - Kozak, T., **Bauer, S.**, Walch, G., Al-Karawi, S., & Blakeney, W. (2021). *An update on reverse total shoulder arthroplasty: Current indications, new designs, same old problems*. *EFORT Open Reviews*, 6(3), 189–201.  
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  - Al-Dourobi, K., Corbaz, J., **Bauer, S.**, & Leumessi, E. N. (2021). *Lower lumbar back pain occurring with transient hip osteoporosis: Complication of prolonged suffering and neck of femur fracture in a 24-year-old pregnant patient*. *BMJ Case Reports CP*, 14(1), e238477.  
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## 2020

- **Bauer, S.**, Traverso, A., & Walch, G. (2020). *Locked 90°-double plating of scapular spine fracture after reverse shoulder arthroplasty with union and good outcome despite plate adjacent acromion fracture*. *BMJ Case Reports CP*, 13(9), e234727.  
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  - Poroës, F. R., Desmarchelier, R., & **Bauer, S.** (2020). *Case report: Atypical biceps-related complication of proximal humerus fracture leading to internal shoulder impingement due to tendon stump dislocation*. *BMJ Case Reports*, 13(2).
  - **Bauer, S.**, Traverso, A., & Walch, G. (2020). *Case report: Locked 90°-double plating of scapular spine fracture after reverse shoulder arthroplasty with union and good outcome despite plate adjacent acromion fracture*. *BMJ Case Reports*, 13(9).
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## 2019

- Papineau, J. L., **Bauer, S.**, Hayes, A. J., Stoffel, K., & Day, R. E. (2019). *The biomechanical effects of combining rigid and dynamic fracture fixation in simple fractures*. *J Trauma Treat*, 8, 449.  
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