

The list of articles in PubMed search is as follow:

A. Search Results on PubMed using the terms "Patient Blood Management" AND ("case study"[ti] OR "case report*"[ti] OR "case reports"[ptyp]) =

1: Gammon R, Becker J, Cameron T, Eichbaum Q, Jindal A, Lamba DS, Nalezinski S, Rios J, Shaikh S, Shepherd J, Tanhehco YC. How do I manage a blood product shortage? *Transfusion*. 2023 Dec;63(12):2205-2213. doi: 10.1111/trf.17572. Epub 2023 Oct 15. PMID: 37840217.

2: Shi Y, Zhu B, Zhang Y, Huang Y. Anesthetic management of a huge retroperitoneal leiomyoma: a case report. *Perioper Med (Lond)*. 2023 Nov 28;12(1):64. doi: 10.1186/s13741-023-00352-w. PMID: 38017529; PMCID: PMC10683212.

3: Okuyama S, Sumi M, Ishikawa R, Shishido T, Koyama D, Ueki T, Takahashi D, Kobayashi H, Kobayashi H, Tsuno NH. Successful allogeneic hematopoietic stem cell transplantation in a patient with type I CD36 deficiency: a case study and literature review. *Int J Hematol*. 2023 Nov;118(5):656-660. doi: 10.1007/s12185-023-03637-4. Epub 2023 Jul 25. PMID: 37490235.

4: Entzel P, Nielsen M, Weiss S, Park YA, Lu R, Baskin-Miller J, Hutchinson B, Obioma P, An X, Balfanz G. How do I reduce variation in red blood cell transfusion practices in a large integrated health care system? *Transfusion*. 2023 Jun;63(6):1113-1121. doi: 10.1111/trf.17383. Epub 2023 May 16. PMID: 37190781.

5: Thulasiram N, Sahoo D, Basavarajegowda A. Clinical significant anti-P1 antibody with wide thermal amplitude: A tale of successful blood management. *Asian J Transfus Sci*. 2023 Jan-Jun;17(1):125-127. doi: 10.4103/ajts.ajts_165_21. Epub 2022 Sep 28. PMID: 37188025; PMCID: PMC10180787.

6: Denn S, Schneck E, Jablawi F, Bender M, Schmidt G, Habicher M, Uhl E, Sander M. The use of artificial intelligence and machine learning monitoring to safely administer a fluid-restrictive goal-directed treatment protocol to minimize the risk of transfusion during major spine surgery of a Jehovah's Witness: a case report. *J Med*

Case Rep. 2022 Nov 12;16(1):412. doi: 10.1186/s13256-022-03653-8. PMID: 36369059; PMCID: PMC9652964.

7: Myszewski JJ, Rose WN. Educational Case: Perioperative patient blood management. *Acad Pathol.* 2022 Oct 10;9(1):100057. doi: 10.1016/j.acpath.2022.100057. PMID: 36262361; PMCID: PMC9573870.

8: Jung J, Lee M, Kang Y, Cho SH. Patient blood management when blood is not an option: a report of two cases. *Ann Palliat Med.* 2022 Aug;11(8):2768-2772. doi: 10.21037/apm-21-3013. Epub 2022 Jan 17. PMID: 35073715.

9: Sarmiento IA, Brenner AC, Haas T, Cushing MM; Contributors. Viscoelastic Testing and Factor Concentrate Therapy to Reduce Bleeding and Transfusions in the Surgical Separation of Ischiophagus Twins: A Case Report. *AA Pract.* 2022 Jun 22;16(6):e01594. doi: 10.1213/XAA.0000000000001594. PMID: 35732023.

10: Arun VJ, Deorukhkar A, Rafi AM, Charles D, Devendra R, Innah SJ, Kedar P. Successful management of Methemoglobinemia and G6PD deficiency in a patient posted for surgical excision of branchial cyst. *Asian J Transfus Sci.* 2022 Jan-Jun;16(1):128-131. doi: 10.4103/ajts.ajts_152_20. Epub 2022 May 26. PMID: 36199403; PMCID: PMC9528542.

11: Krigstein M, Cromer N. Navigating the challenges of Bombay phenotype (O_h) and twin pregnancy; a case report and literature review. *Transfusion.* 2022 Jan;62(1):247-251. doi: 10.1111/trf.16737. Epub 2021 Nov 17. PMID: 34787323.

12: Matsui M, Kajiwara K, Tsukada M, Iwama K, Yamada K, Kodo H, Seto K, Tonami K, Ando M, Matsushashi M, Watanabe-Okochi N, Tsuno NH, Kozai Y. A case of Philadelphia chromosome-positive acute lymphocytic leukaemia with type I CD36 deficiency. *Vox Sang.* 2022 Jan;117(1):128-132. doi: 10.1111/vox.13119. Epub 2021 Jun 14. PMID: 34125957.

13: Mani A, Mishra G, Kulkarni S, Gupta D. D--phenotype due to RHD-RHCE hybrid transcript in a case of severe haemolytic disease of newborn with anti-Rh 17(Hr_o)

antibodies. *Transfus Med.* 2021 Oct;31(5):383-386. doi: 10.1111/tme.12799. Epub 2021 Jun 13. PMID: 34121248.

14: Chand S, Mani A, Amita R, Gupta D. Patient blood management in a neurosurgical patient with anti-e antibody. *Asian J Transfus Sci.* 2021 Jul- Dec;15(2):226-228. doi: 10.4103/ajts.ajts_30_21. Epub 2021 Nov 1. PMID: 34908759; PMCID: PMC8628232.

15: Goehring M, Choorapoikayil S, Zacharowski K, Messroghli L. Anaesthesia and orphan disease: management of a case of Nicolaidis-Baraitser syndrome undergoing cleft palate surgery. *BMC Anesthesiol.* 2021 May 26;21(1):162. doi: 10.1186/s12871-021-01380-z. PMID: 34039274; PMCID: PMC8152345.

16: Di Ciaccio P, Cutts B, Alahakoon TI, Dennington PM, Soo LA, Curnow J. Clinical consequences of the extremely rare anti-PP1Pk isoantibodies in pregnancy: a case series and review of the literature. *Vox Sang.* 2021 May;116(5):591-600. doi: 10.1111/vox.13042. Epub 2020 Dec 16. PMID: 33326620.

17: Watanabe Y, Suzuki T, Kaneda T. Blood management in a patient with anti-Ok^a antibody who underwent cardiac surgery using cardiopulmonary bypass: a case report. *BMC Anesthesiol.* 2020 Aug 20;20(1):208. doi: 10.1186/s12871-020-01120-9. PMID: 32819271; PMCID: PMC7441615.

18: Dalka L, Harb A, Mikesell K, Gordon Perue G. Medically Refractory Multiple Sclerosis Is Successfully Treated with Plasmapheresis in a Super Morbidly Obese Pregnant Patient. *Case Rep Neurol Med.* 2020 Apr 4;2020:4536145. doi: 10.1155/2020/4536145. PMID: 32313710; PMCID: PMC7160736.

19: Shastry S, Satyamoorthy K, Acharya KV, Reddy VR, Mohan G, Deepika C, Reghunathan D, Joshi MB. Deletion in the *A4GALT* Gene Associated with Rare "P null" Phenotype: The First Report from India. *Transfus Med Hemother.* 2020 Apr;47(2):186-189. doi: 10.1159/000501916. Epub 2019 Aug 21. PMID: 32355479; PMCID: PMC7184825.

20: Sachan D, Tiwari AK, Dara R, Jothimani D, Kaliamoorthy I, Reddy SM, Rela M. Patient blood management in a patient with multiple red cell antibodies (anti-C, anti-e, and anti-K) undergoing liver transplant in South India: A team approach. *Asian J Transfus Sci.* 2020 Jan-Jun;14(1):74-78. doi: 10.4103/ajts.AJTS_54_18. Epub 2020 Jul 24. PMID: 33162713; PMCID: PMC7607982.

21: Goodnough LT, Hollenhorst MA. Clinical decision support and improved blood use in patient blood management. *Hematology Am Soc Hematol Educ Program.* 2019 Dec 6;2019(1):577-582. doi: 10.1182/hematology.2019000062. PMID: 31808902; PMCID: PMC6913498.

22: Ning S, Zeller MP. Management of iron deficiency. *Hematology Am Soc Hematol Educ Program.* 2019 Dec 6;2019(1):315-322. doi: 10.1182/hematology.2019000034. PMID: 31808874; PMCID: PMC6913441.

23: Gamble JF, Maxwell CD, Gaca J, Guinn NR, Cho BC, Frank SM, Tibi PR. Successful Ascending Aorta and Hemiarch Replacement and Aortic Valve Resuspension Via Redo Median Sternotomy Using Hypothermic Circulatory Arrest in a Practicing Jehovah's Witnesses Patient. *J Cardiothorac Vasc Anesth.* 2019 May;33(5):1447-1454. doi: 10.1053/j.jvca.2018.12.019. Epub 2018 Dec 21. PMID: 30704828.

24: Bullock T, Win N, Jackson B, Sivarajan S, Penny J, Mir N. Bombay phenotype (O_h) and high-titer anti-H in pregnancy: two case reports and a review of the literature. *Transfusion.* 2018 Dec;58(12):2766-2772. doi: 10.1111/trf.14906. Epub 2018 Sep 27. PMID: 30260479.

25: Schwab R, Kosoglow M, Philp FH, Suydam E. When Transfusion Is Not an Option- the Challenges and Rewards. *Crit Care Nurs Q.* 2018 Oct/Dec;41(4):347-355. doi: 10.1097/CNQ.0000000000000219. PMID: 30153176.

26: Shander A, Goodnough LT. Management of anemia in patients who decline blood transfusion. *Am J Hematol.* 2018 Sep;93(9):1183-1191. doi: 10.1002/ajh.25167. Epub 2018 Sep 3. PMID: 30033541.

27: Beverina I, Macellaro P, Parola L, Brando B. Extreme anemia (Hb 33 g/L) in a 13-year-old girl: Is the transfusion always mandatory? *Transfus Apher Sci.* 2018 Aug;57(4):512-514. doi: 10.1016/j.transci.2018.05.026. Epub 2018 May 19. PMID: 29803622.

28: García E, Blanco MP, Riaño S, González-Mendibil I, Carrascosa T, Antolín MT. Management of peri-operative anaemia in a patient with rare alloantibodies scheduled for oesophagectomy. *Rev Esp Anesthesiol Reanim (Engl Ed).* 2018 Aug- Sep;65(7):403-406. English, Spanish. doi: 10.1016/j.redar.2018.01.006. Epub 2018 Mar 7. PMID: 29525470.

29: Krishnamoorthy A, Hadi FA, Naidu A, Sathar J. The modern implementation of patient blood management (PBM) in Malaysia: the use of intravenous iron in severe anaemia with iron deficiency - A Case Report. *Med J Malaysia.* 2017 Feb;72(1):53-54. PMID: 28255141.

B. 10 PubMed results for "Patient Blood management" AND "Education"

1: Barchielli C, Landriscina S, Castelluzzo SC, Alaimo M. Are Italian nurses ready for patient blood management program? A national social media survey. *Acta Biomed.* 2023 Apr 24;94(2):e2023068. doi: 10.23750/abm.v94i2.13838. PMID: 37092636; PMCID: PMC10210549.

2: Rambiritch V, Verburgh E, Louw VJ. Patient blood management and blood conservation - Complimentary concepts and solutions for blood establishments and clinical services in South Africa and beyond. *Transfus Apher Sci.* 2021 Aug;60(4):103207. doi: 10.1016/j.transci.2021.103207. Epub 2021 Aug 2. PMID: 34353706; PMCID: PMC10399285.

3: Garraud O, Vuk T, Brand A, de Angelis V, Politis C, Haddad A, Vlaar APJ, Lozano M, Ertuğrul Örüç N, Laspina S, Tissot JD. Medical student education in transfusion medicine, part II: Moving forward to building up a "Know How" education program in transfusion medicine for under-graduate medical students.

Transfus Apher Sci. 2020 Dec;59(6):102879. doi: 10.1016/j.transci.2020.102879. Epub 2020 Jul 22. PMID: 32718832.

4: Riveira MC, Louzon MJ, Tuott EE, Monoski TJ, Cruz-Cody VG, Tesfamariam A, Hess JR. Blood School. Am J Clin Pathol. 2020 Mar 9;153(4):524-529. doi: 10.1093/ajcp/aqz192. PMID: 31776544.

5: Jin L, Kapadia TY, Von Gehr A, Rosas E, Bird JB, Ramaswamy D, Patel D. Feasibility of a Preoperative Anemia Protocol in a Large Integrated Health Care System. Perm J. 2019;23:17-200. doi: 10.7812/TPP/17-200. PMID: 30939262; PMCID: PMC6380480.

6: Sherliker L, Pendry K, Hockley B. Patient blood management: how is implementation going?: A report comparing the 2015 survey with the 2013 survey of PBM in England. Transfus Med. 2018 Apr;28(2):92-97. doi: 10.1111/tme.12527. Epub 2018 Apr 16. PMID: 29756664.

7: Graham JE, Narayan S, Pendry K. Improving transfusion education for junior doctors; exploring UK experiences. Transfus Med. 2017 Apr;27(2):96-104. doi: 10.1111/tme.12373. Epub 2016 Nov 7. PMID: 28382707.

8: Goodnough LT, Murphy MF. How I train specialists in transfusion medicine. Transfusion. 2016 Dec;56(12):2923-2933. doi: 10.1111/trf.13862. Epub 2016 Nov 18. PMID: 27859432.

9: Zuckerberg GS, Scott AV, Wasey JO, Wick EC, Pawlik TM, Ness PM, Patel ND, Resar LM, Frank SM. Efficacy of education followed by computerized provider order entry with clinician decision support to reduce red blood cell utilization. Transfusion. 2015 Jul;55(7):1628-36. doi: 10.1111/trf.13003. Epub 2015 Feb 3. PMID: 25646579.

10: Shander A, Javidroozi M, Naqvi S, Aregbeyen O, Caylan M, Demir S, Juhl A. An update on mortality and morbidity in patients with very low postoperative hemoglobin levels who decline blood transfusion (CME). Transfusion. 2014 Oct;54(10 Pt 2):2688-95; quiz 2687. doi: 10.1111/trf.12565. Epub 2014 Feb 17. PMID: 24527739.

C. 43 PubMed results for PBM + program development

1: Sarker K, Vanstone JR, Adigun O, Boutilier B, Comeau J, Degelman ML, Gottselig P, Berry WE, Milne A, Van Vliet P, Harding SR. Development, implementation and impact of an immunoglobulin stewardship programme in Saskatchewan, Canada. *Vox Sang*. 2024 Apr;119(4):335-343. doi: 10.1111/vox.13593. Epub 2024 Jan 17. PMID: 38229560.

2: Czarnecka J, Neuschwander A, Aujoulat T, Balmier A, Belcour D, Boulanger B, Bourgain C, Caron M, Kiss G, Larghi M, Lebard C, Mellano V, Larson J, Megroian B, Lefrançois A, Fox S, Pollet A, Bourgoin P, Biland G, Braunberger E, Maccio G, Delmas B. Red Blood Cell Transfusion Requirements Before and After Implementation of a Perioperative Patient Blood Management Program in Adult Patients Undergoing Cardiac Surgery. A Before and After Observational Study. *J Cardiothorac Vasc Anesth*. 2024 Jan;38(1):73-79. doi: 10.1053/j.jvca.2023.10.023. Epub 2023 Oct 20. PMID: 37953174.

3: Lenet T, McIsaac DI, Hallet JH, Jerath A, Lalu MM, Nicholls SG, Presseau J, Tinmouth A, Verret M, Wherrett CG, Fergusson DA, Martel G; Ottawa Consensus on Intraoperative Patient Blood Management. Intraoperative Blood Management Strategies for Patients Undergoing Noncardiac Surgery: The Ottawa Intraoperative Transfusion Consensus. *JAMA Netw Open*. 2023 Dec 1;6(12):e2349559. doi: 10.1001/jamanetworkopen.2023.49559. PMID: 38153742.

4: Park JY, Kang OJ, Lee YY, Kim YS. A prospective randomized controlled trial evaluating the safety and efficacy of patient blood management program in patients with gynecologic cancer (KGOG 4011/PBM). *Int J Gynecol Cancer*. 2023 Jul 3;33(7):1140-1144. doi: 10.1136/ijgc-2023-004403. PMID: 37094968; PMCID: PMC10359505.

5: Wabeke D, Tolich D. What Are the Barriers and Facilitators for Critical Care Nurse Participation in a Patient Blood Management Program? *Dimens Crit Care Nurs*. 2023 Jul-Aug 01;42(4):196-201. doi: 10.1097/DCC.0000000000000585. PMID: 37219473.

6: Barchielli C, Landriscina S, Castelluzzo SC, Alaimo M. Are Italian nurses ready for patient blood management program? A national social media survey. *Acta Biomed.* 2023 Apr 24;94(2):e2023068. doi: 10.23750/abm.v94i2.13838. PMID: 37092636; PMCID: PMC10210549.

7: Kim JH, Shin HJ, You HS, Park Y, Ahn KH, Jung JS, Han SB, Park JH; Korea University Bloodless Medicine Center Scientific Committee. Effect of a Patient Blood Management Program on the Appropriateness of Red Blood Cell Transfusion and Clinical Outcomes in Elderly Patients Undergoing Hip Fracture Surgery. *J Korean Med Sci.* 2023 Feb 27;38(8):e64. doi: 10.3346/jkms.2023.38.e64. PMID: 36852856; PMCID: PMC9970785.

8: Jericó C, Puértolas N, Osorio J, Miranda C, Santamaría M, Artigau E, Galofré G, Garsot E, Luna A, Aldeano A, Olona C, Pulido L, Pera M; Spanish EURECCA Esophagogastric Cancer Group. Cost analysis of a patient blood management program for patients undergoing gastric cancer surgery. *Eur J Surg Oncol.* 2023 Jan;49(1):293-297. doi: 10.1016/j.ejso.2022.09.007. Epub 2022 Sep 20. PMID: 36163062.

9: Frietsch T, Wittenberg G, Horn A, Steinbicker AU. Implementation of a "Patient Blood Management" program in medium sized hospitals: Results of a survey among German hemotherapists. *Health Sci Rep.* 2022 Nov 18;5(6):e924. doi: 10.1002/hsr2.924. PMID: 36415561; PMCID: PMC9674170.

10: Pavenski K, Howell A, Mazer CD, Hare GMT, Freedman J. ONTraC: A 20-Year History of a Successfully Coordinated Provincewide Patient Blood Management Program: Lessons Learned and Goals Achieved. *Anesth Analg.* 2022 Sep 1;135(3):448-458. doi: 10.1213/ANE.0000000000006065. Epub 2022 Aug 17. PMID: 35977355.

11: Duarte GC, Neto FGF, Júnior JFCM, Langhi DM. Implementation of a patient blood management program based on a low-income country-adapted clinical decision support system. *Hematol Transfus Cell Ther.* 2022 Jul-Sep;44(3):374-378. doi: 10.1016/j.htct.2020.12.010. Epub 2021 Mar 14. PMID: 33741301; PMCID: PMC9477781.

12: Lim AR, Kim JH, Hyun MH, Chang WJ, Lee S, Kim YH, Park KH, Park JH. Blood transfusion has an adverse impact on the prognosis of patients receiving chemotherapy for advanced colorectal cancer: experience from a single institution with a patient blood management program. *Support Care Cancer*. 2022 Jun;30(6):5289-5297. doi: 10.1007/s00520-022-06949-z. Epub 2022 Mar 11. PMID: 35277757.

13: Warner MA, Schulte PJ, Hanson AC, Madde NR, Burt JM, Higgins AA, Andrijasevic NM, Kreuter JD, Jacob EK, Stubbs JR, Kor DJ. Implementation of a Comprehensive Patient Blood Management Program for Hospitalized Patients at a Large United States Medical Center. *Mayo Clin Proc*. 2021 Dec;96(12):2980-2990. doi: 10.1016/j.mayocp.2021.07.017. Epub 2021 Nov 1. PMID: 34736775; PMCID: PMC8649051.

14: Osorio J, Jericó C, Miranda C, Santamaría M, Artigau E, Galofré G, Garsot E, Luna A, Puértolas N, Aldeano A, Olona C, Molinas J, Feliu J, Videla S, Tebe C, Pera M. Improved postoperative outcomes and reduced transfusion rates after implementation of a Patient Blood Management program in gastric cancer surgery. *Eur J Surg Oncol*. 2021 Jun;47(6):1449-1457. doi: 10.1016/j.ejso.2020.11.129. Epub 2020 Nov 27. PMID: 33267997.

15: Tsante A, Papandreadi A, Tsantes AG, Kyriakou E, Douramani P, Loukopoulou E, Gialeraki A, Kokoris SI, Kypraiou A, Poulis A, Kopterides P, Piovani D, Bonovas S, Valsami S, Tsantes AE. Seeking Strategies to Optimize Blood Utilization: The Preliminary Experience with Implementing a Patient Blood Management Program in a Greek Tertiary Hospital. *J Clin Med*. 2021 May 15;10(10):2141. doi: 10.3390/jcm10102141. PMID: 34063464; PMCID: PMC8157216.

16: Biboulet P, Motais C, Pencole M, Karam O, Dangelser G, Smilevitch P, Maissiat G, Capdevila X, Bringuier S. Preoperative erythropoietin within a patient blood management program decreases both blood transfusion and postoperative anemia: a prospective observational study. *Transfusion*. 2020 Aug;60(8):1732-1740. doi: 10.1111/trf.15900. Epub 2020 Jul 18. PMID: 32681743.

17: Günaydın S, Spahn DR, Özışık K, Demir A, Aşkın G, Sert DE, Bozkurt H, Şampiyon A, Kazancı D, Kılıçlı AB, Küçüker ŞA, Kervan Ü, Özatik MA. Building a patient blood management program in a large-volume tertiary hospital setting: Problems and solutions. *Turk Gogus Kalp Damar Cerrahisi Derg.* 2020 Jul 28;28(3):560-569. doi: 10.5606/tgkdc.dergisi.2020.19701. PMID: 32953226; PMCID: PMC7493600.

18: Chau M, Gohil D, Schofield N, Abeysiri S, Klein AA, Richards T. Development and feasibility of a Patient Blood Management implementation programme in vascular surgery. *Vasc Med.* 2020 Feb;25(1):41-46. doi: 10.1177/1358863X19883940. Epub 2019 Nov 15. PMID: 31729285.

19: Warner MA, Jambhekar NS, Saadeh S, Jacob EK, Kreuter JD, Mundell WC, Marquez A, Higgins AA, Madde NR, Hogan WJ, Kor DJ. Implementation of a patient blood management program in hematopoietic stem cell transplantation (Editorial, p. 2763). *Transfusion.* 2019 Sep;59(9):2840-2848. doi: 10.1111/trf.15414. Epub 2019 Jun 20. PMID: 31222775; PMCID: PMC6813829.

20: Thomson J, Hofmann A, Barrett CA, Beeton A, Bellairs GRM, Boretti L, Coetzee MJ, Farmer S, Gibbs MW, H Gombotz H, Hilton C, Kassianides C, Louw VJ, Lundgren C, Mahlangu JN, Noel CB, Rambiritch V, Schneider F, Verburgh E, Wessels PL, Wessels P, Wise R, Shander On Behalf Of The South African Patient Blood Management Group A. Patient blood management: A solution for South Africa. *S Afr Med J.* 2019 Jun 28;109(7):471-476. doi: 10.7196/SAMJ.2019.v109i7.13859. PMID: 31266571; PMCID: PMC10414180.

21: Gani F, Cerullo M, Ejaz A, Gupta PB, Demario VM, Johnston FM, Frank SM, Pawlik TM. Implementation of a Blood Management Program at a Tertiary Care Hospital: Effect on Transfusion Practices and Clinical Outcomes Among Patients Undergoing Surgery. *Ann Surg.* 2019 Jun;269(6):1073-1079. doi: 10.1097/SLA.0000000000002585. PMID: 31082904.

22: Althoff FC, Neb H, Herrmann E, Trentino KM, Vernich L, Füllenbach C, Freedman J, Waters JH, Farmer S, Leahy MF, Zacharowski K, Meybohm P, Choorapoikayil S.

Multimodal Patient Blood Management Program Based on a Three- pillar Strategy: A Systematic Review and Meta-analysis. *Ann Surg.* 2019 May;269(5):794-804. doi: 10.1097/SLA.0000000000003095. PMID: 30418206.

23: Gupta PB, DeMario VM, Amin RM, Gehrie EA, Goel R, Lee KHK, Yang WW, Khanuja HS, Sterling RS, Ness PM, Frank SM. Patient Blood Management Program Improves Blood Use and Clinical Outcomes in Orthopedic Surgery. *Anesthesiology.* 2018 Dec;129(6):1082-1091. doi: 10.1097/ALN.0000000000002397. PMID: 30124488.

24: Bielza R, Mora A, Zambrana F, Sanjurjo J, Sanz-Rosa D, Thuissard IJ, Arias E, Neira M, Gómez Cerezo JF. Impact of a patient blood management program within an Orthogeriatric care service. *Transfus Apher Sci.* 2018 Aug;57(4):517-523. doi: 10.1016/j.transci.2018.05.029. Epub 2018 May 30. PMID: 29871842.

25: Jericó Alba C, García Erce JA. The role of the internist in the patient blood management program. *Med Clin (Barc).* 2018 Jun 22;150(12):469-471. English, Spanish. doi: 10.1016/j.medcli.2017.11.002. Epub 2017 Dec 8. PMID: 29229295.

26: Morgan PN, Coleman PL, Martinez-Garduno CM, Gunaratne AW, McInnes E, Middleton S. Implementation of a patient blood management program in an Australian private hospital orthopedic unit. *J Blood Med.* 2018 Jun 18;9:83-90. doi: 10.2147/JBM.S157571. PMID: 29950914; PMCID: PMC6014436.

27: Sadana D, Pratzner A, Scher LJ, Saag HS, Adler N, Volpicelli FM, Auron M, Frank SM. Promoting High-Value Practice by Reducing Unnecessary Transfusions With a Patient Blood Management Program. *JAMA Intern Med.* 2018 Jan 1;178(1):116-122. doi: 10.1001/jamainternmed.2017.6369. PMID: 29159367.

28: Frank SM, Thakkar RN, Podlasek SJ, Ken Lee KH, Wintermeyer TL, Yang WW, Liu J, Rotello LC, Fleury TA, Wachter PA, Ishii LE, Demski R, Pronovost PJ, Ness PM. Implementing a Health System-wide Patient Blood Management Program with a Clinical Community Approach. *Anesthesiology.* 2017 Nov;127(5):754-764. doi: 10.1097/ALN.0000000000001851. PMID: 28885446.

29: García Erce JA, Laso Morales MJ. «Patient blood management» in the enhanced recovery program after abdominal surgery. *Cir Esp*. 2017 Nov;95(9):552-554. English, Spanish. doi: 10.1016/j.ciresp.2017.02.001. Epub 2017 Mar 18. PMID: 28318496.

30: Leahy MF, Trentino KM, May C, Swain SG, Chuah H, Farmer SL. Blood use in patients receiving intensive chemotherapy for acute leukemia or hematopoietic stem cell transplantation: the impact of a health system-wide patient blood management program. *Transfusion*. 2017 Sep;57(9):2189-2196. doi: 10.1111/trf.14191. Epub 2017 Jul 3. PMID: 28671296.

31: Leahy MF, Hofmann A, Towler S, Trentino KM, Burrows SA, Swain SG, Hamdorf J, Gallagher T, Koay A, Geelhoed GC, Farmer SL. Improved outcomes and reduced costs associated with a health-system-wide patient blood management program: a retrospective observational study in four major adult tertiary-care hospitals. *Transfusion*. 2017 Jun;57(6):1347-1358. doi: 10.1111/trf.14006. Epub 2017 Feb 2. PMID: 28150313.

32: Thakkar RN, Lee KH, Ness PM, Wintermeyer TL, Johnson DJ, Liu E, Rajprasad A, Knight AM, Wachter PA, Demski R, Frank SM. Relative impact of a patient blood management program on utilization of all three major blood components. *Transfusion*. 2016 Sep;56(9):2212-20. doi: 10.1111/trf.13718. Epub 2016 Jul 6. PMID: 27383581.

33: Verdecchia NM, Wisniewski MK, Waters JH, Triulzi DJ, Alarcon LH, Yazer MH. Changes in blood product utilization in a seven-hospital system after the implementation of a patient blood management program: A 9-year follow-up. *Hematology*. 2016 Sep;21(8):490-9. doi: 10.1080/10245332.2015.1112496. Epub 2016 Feb 17. PMID: 26870887.

34: Espinosa A, Arsenovic M, Hervig T, Sundic T, Aandahl A, Kronborg J, Seghatchian J. Implementing a patient blood management program in Norway: Where to start? *Transfus Apher Sci*. 2016 Jun;54(3):422-7. doi: 10.1016/j.transci.2016.05.015. Epub 2016 May 12. PMID: 27216542.

35: Seghatchian J. News on implementing two new patient-focused strategies: A patient blood management program in Norway and validation of two dedicated assays for measuring Dabigatran when used for long term antithrombotic therapy. *Transfus Apher Sci.* 2016 Jun;54(3):421. doi: 10.1016/j.transci.2016.05.014. Epub 2016 May 13. PMID: 27211043.

36: Wintermeyer TL, Liu J, Lee KH, Ness PM, Johnson DJ, Hoffman NA, Wachter PA, Demski R, Frank SM. Interactive dashboards to support a patient blood management program across a multi-institutional healthcare system. *Transfusion.* 2016 Jun;56(6):1480-1. doi: 10.1111/trf.13621. Epub 2016 May 3. PMID: 27145087.

37: Gross I, Trentino KM, Andreescu A, Pierson R, Maietta RA, Farmer S. Impact of a Patient Blood Management Program and an Outpatient Anemia Management Protocol on Red Cell Transfusions in Oncology Inpatients and Outpatients. *Oncologist.* 2016 Mar;21(3):327-32. doi: 10.1634/theoncologist.2015-0406. Epub 2016 Feb 10. PMID: 26865590; PMCID: PMC4786358.

38: Pérez-Ferrer A, Gredilla-Díaz E, de Vicente-Sánchez J, Sánchez Pérez-Grueso F, Gilsanz-Rodríguez F. Implementation of a patient blood management program in pediatric scoliosis surgery. *Rev Esp Anesthesiol Reanim.* 2016 Feb;63(2):69-77. English, Spanish. doi: 10.1016/j.redar.2015.04.009. Epub 2015 Jun 3. PMID: 26049212.

39: Loftus TJ, Spratling L, Stone BA, Xiao L, Jacofsky DJ. A Patient Blood Management Program in Prosthetic Joint Arthroplasty Decreases Blood Use and Improves Outcomes. *J Arthroplasty.* 2016 Jan;31(1):11-4. doi: 10.1016/j.arth.2015.07.040. Epub 2015 Aug 1. PMID: 26346704.

40: Mehra T, Seifert B, Bravo-Reiter S, Wanner G, Dutkowski P, Holubec T, Moos RM, Volbracht J, Manz MG, Spahn DR. Implementation of a patient blood management monitoring and feedback program significantly reduces transfusions and costs. *Transfusion.* 2015 Dec;55(12):2807-15. doi: 10.1111/trf.13260. Epub 2015 Aug 11. PMID: 26264557.

41: Lew E, Tagore S. Implementation of an obstetric cell salvage service in a tertiary women's hospital. *Singapore Med J.* 2015 Aug;56(8):445-9. doi: 10.11622/smedj.2015121. PMID: 26311910; PMCID: PMC4545133.

42: Meybohm P, Fischer DP, Geisen C, Müller MM, Weber CF, Herrmann E, Steffen B, Seifried E, Zacharowski K; German PBM Study Core Group. Safety and effectiveness of a Patient Blood Management (PBM) program in surgical patients--the study design for a multi-centre prospective epidemiologic non-inferiority trial. *BMC Health Serv Res.* 2014 Nov 19;14:576. doi: 10.1186/s12913-014-0576-3. PMID: 25927460; PMCID: PMC4261241.

43: Oliver JC, Griffin RL, Hannon T, Marques MB. The success of our patient blood management program depended on an institution-wide change in transfusion practices. *Transfusion.* 2014 Oct;54(10 Pt 2):2617-24. doi: 10.1111/trf.12536. Epub 2014 Jan 12. PMID: 24410741.

D. "patient blood management" AND ("Benchmarking"[Mesh] OR Metrics OR benchmark*)

1: George A, Shastry S, Mohan G, Belurkar S. Evaluating patient blood management practices using PBM metrics in a tertiary care center. *Transfus Clin Biol.* 2024Feb;31(1):26-30. doi: 10.1016/j.tracli.2023.12.002. Epub 2023 Dec 16. PMID: 38110075.

2: Choi KY, Kim YD, Cho N, Kim MS, In Y, You HY, Koh IJ. Postoperative Hemodynamics of Total Knee Arthroplasty Unaffected by Cementless Approach under Contemporary Patient Blood Management Protocol: A Propensity Score Matched Study. *J Clin Med.* 2023 Nov 8;12(22):6980. doi: 10.3390/jcm12226980. PMID: 38002595; PMCID: PMC10672580.

3: Yeates J, Miles L, Blatchford K, Bailey M, Williams-Spence J, Reid C, Coulson T. AntiPORT: adaptation of a transfusion prediction score to an Australian cardiac surgery population. *Crit Care Resusc.* 2023 Oct 16;24(4):360-368. doi: 10.51893/2022.4.OA6. PMID: 38047003; PMCID: PMC10692639.

4: Adkins BD, Murfin R, Luu HS, Noland DK. Paediatric clinical decision support: Evaluation of a best practice alert for red blood cell transfusion. *Vox Sang.* 2023 Sep;118(9):746-752. doi: 10.1111/vox.13497. Epub 2023 Jul 11. PMID: 37431735.

5: Trentino KM, Lloyd A, Swain SG, Trentino L, Gross I. Data and Metrics for Patient Blood Management: A Narrative Review and Practical Guide. *Anesth Analg.* 2023 Aug 8. doi: 10.1213/ANE.0000000000006557. Epub ahead of print. PMID:37553085.

6: Gammon RR, Blanton K, Gilstad C, Hong H, Nichols T, Putnam H, Marinaro L, Segura T, Tay S, Bocquet C. How do we obtain and maintain patient blood management certification? *Transfusion.* 2022 Aug;62(8):1483-1494. doi: 10.1111/trf.16929. Epub 2022 May 26. PMID: 35616174.

7: Ziemann S, Coburn M, Rossaint R, Van Waesberghe J, Bürkle H, Fries M, Henrich M, Henzler D, Iber T, Karst J, Kunitz O, Löb R, Meißner W, Meybohm P, Mierke B, Pabst F, Schaelte G, Schiff J, Soehle M, Winterhalter M, Kowark A. Implementation of anesthesia quality indicators in Germany : A prospective, national, multicenter quality improvement study. *Anaesthesist.* 2021 Dec;70(Suppl 1):38-47. doi: 10.1007/s00101-020-00773-y. Epub 2020 Jul 6. PMID: 32377798; PMCID: PMC8674175.

8: Bisbe E, Garcia-Casnovas A, Illa C, Varela J, Basora M, Barquero M, Colomina MJ, González L, Hofmann A; MAPBM Working Group (listed in Appendix 1). Maturity Assessment model for Patient Blood Management to assist hospitals in improving patients' safety and outcomes. The MAPBM project. *Blood Transfus.* 2021 May;19(3):205-215. doi: 10.2450/2020.0105-20. Epub 2020 Sep 18. PMID: 32955422; PMCID: PMC8092037.

9: Roberts N, James SL, Delaney M, Fitzmaurice C. Blood transfusion trends by disease category in the United States, 2000 to 2014. *Transfus Apher Sci.* 2021 Feb;60(1):103012. doi: 10.1016/j.transci.2020.103012. Epub 2020 Nov 21. PMID: 33309539; PMCID: PMC7987725.

10: Hensley NB, Cho BC, Visagie M, Lester LC, Abernathy JH 3rd, Frank SM. How do I audit intraoperative blood component utilization in cardiac surgery? *Transfusion.*

2019 Oct;59(10):3058-3064. doi: 10.1111/trf.15399. Epub 2019 Jun 14. PMID:
31198989.