

Review Form 1.7

Journal Name:	International Blood Research & Reviews
Manuscript Number:	Ms_IBRR_110500
Title of the Manuscript:	Secondary erythrocytosis, a predominant cause of polycythemia- Clinical and laboratory evaluation of polycythemia in a tertiary care center
Type of the Article	Original Research Article

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>the manuscript is important for scientific community</p> <p>the title of the article is suitable</p> <p>the abstract of the article is comprehensive subsections and structure of the manuscript are appropriate</p> <p>the manuscript is scientifically correct references are sufficient and recent Congratulations for nice work in field of haematology, Also, these concerns will help more informative profile of the manuscript</p> <p><u>*IN THE INTRODUCTON SECTION</u></p> <p>It is important to report that there are other factor affecting Hb/Hct other than RBCs, as MCV. Also, other haematological (as NLR, and RDW) indices are so important to report on them in your introduction to make your data more informative. BCS is important to shed a light on it as an important thrombotic event. so, add the following paragraph with attached references.</p> <p>Hb/Hct is affected not only by RBCs but MCV as well [1]. RDW may be simple and immediately available inflammatory biomarker [2]. RDW could be used as a rapid tool to differentiate between SP and PV [3]. Neutrophil-to lymphocyte (NLR) is considered reliable and surrogate marker for PMNL [4]. neutrophil-to-lymphocyte ratio (NLR) as a predictor of thrombosis in polycythaemia vera (PV) [5]. Transforming growth factor beta (TGF-β1) [6] and interleukin-10 (IL-10) are key regulators of immune homeostasis with anti-tumour effect [7]. The proliferation of bone marrow fibroblasts in PV induced by abnormal megakaryocytes that synthesize and locally release fibrogenic cytokines, including platelet-derived growth factor, basic fibroblast growth factor, and transforming growth factor [TGF-β1][8]. Budd-Chiari syndrome (BCS) is a well-known complication of PV and is caused by obstruction of the outflow from liver at the level of the hepatic veins and/or of the suprahepatic portion of the inferior vena cava [9]. Also, isolated factor C deficiency was the most common aetiology of Budd-Chiari syndrome (BCS) in middle-aged males [10]</p> <p>[1] Yavorkovsky LL. Mean corpuscular volume, haematocrit and polycythaemia. Haematology. 2021 Dec;26(1):881-884. doi: 10.1080/16078454.2021.1994173. PMID: 34753407.</p> <p>[2] Abdel Hamed MR, Tohamy MA, Boshra SZ, Taha SM, Saleh MFM. Red cell distribution width is an inflammatory predictor marker of contrast induced nephropathy in patients undergoing percutaneous coronary intervention. Egypt J Immunol. 2023 Jul;30(3):1-12. PMID: 37439452.</p> <p>[3] Holik H, Krečak I, Gverić-Krečak V, Vučinić Ljubičić I, Coha B. Higher red blood cell distribution width might differentiate primary from secondary polycythaemia: A pilot study. Int J Lab Hematol. 2021 Apr;43(2):e68-e71. doi: 10.1111/ijlh.13373. Epub 2020 Oct 27. PMID: 33108020.</p> <p>[4] Abdel Hamed MR, El-Amien HA, Asham MN et al (2022). Can platelets indices and blood neutrophil to lymphocyte ratio be used as predictors for diagnosis of spontaneous bacterial peritonitis in decompensated post hepatitis liver cirrhosis? Egypt J Immunol. Oct; 29(4):12-24. PMID: 36197150.</p>	

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	<p>[5] Carobbio A, Vannucchi AM, De Stefano V, Masciulli A, Guglielmelli P, Loscocco GG, Ramundo F, Rossi E, Kanthi Y, Tefferi A, Barbui T. Neutrophil-to-lymphocyte ratio is a novel predictor of venous thrombosis in polycythaemia vera. <i>Blood Cancer J.</i> 2022 Feb 10;12(2):28. doi: 10.1038/s41408-022-00625-5. PMID: 35145055; PMCID: PMC8831521.</p> <p>[7] Mohammed D, Khallaf S, El-Naggar M. et al. (2021). Interleukin-10: A Potential Prognostic Marker in Patients with Newly Diagnosed Multiple Myeloma. <i>Research in Oncology.</i> 17(1): 38-41. doi: 10.21608/resoncol.2021.51503.1127</p> <p>[8] Chagraoui H, Komura E, Tulliez M, Giraudier S, Vainchenker W, Wendling F. Prominent role of TGF-1 in thrombopoietin-induced myelofibrosis in mice. <i>Blood.</i> 2002;100:3495-3503.</p> <p>[9] Ludwig J, Hashimoto E, McGill DB, van Heerden JA. Classification of hepatic venous outflow obstruction: ambiguous terminology of the Budd-Chiari syndrome. <i>Mayo Clin Proceed</i> 1990; 65: 51–55.</p> <p>[10] Abdel Hameed MR, Elbeih EAS, Abd El-Aziz HM, Afifi OA, Khalaf LMR, Ali Abu Rahma MZ, Sabry A. Epidemiological Characteristics and Etiology of Budd-Chiari Syndrome in Upper Egypt. <i>J Blood Med.</i> 2020 Dec 30;11:515-524. doi: 10.2147/JBM.S278678. PMID: 33408545; PMCID: PMC7779296.</p> <p><u>*IRB should be added [date and number]</u></p> <p><u>*References should be renewed as mentioned, add previous references.</u></p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language/English quality of the article needs editing</p>	
<p>Optional/General comments</p>		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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