

Acquired Amegakaryocytic Thrombocytopenic Purpura (AAMT) Case Series and a single center experience

Samah Kohla¹, Shehab Fareed¹, Khalid Ahmed¹, Aliaa Amer¹, Khaldun Obeidat², Dina Soliman¹, Reda Youssef¹, Mohammad Abdulla¹, Hana Qasim¹, and Feryal Ibrahim¹

¹Hamad Medical Corporation

²John H Stroger Jr Hospital of Cook County

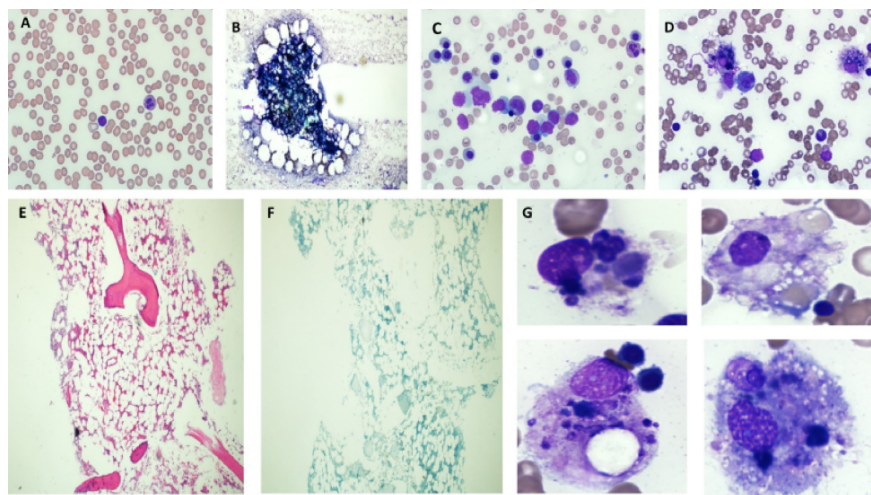
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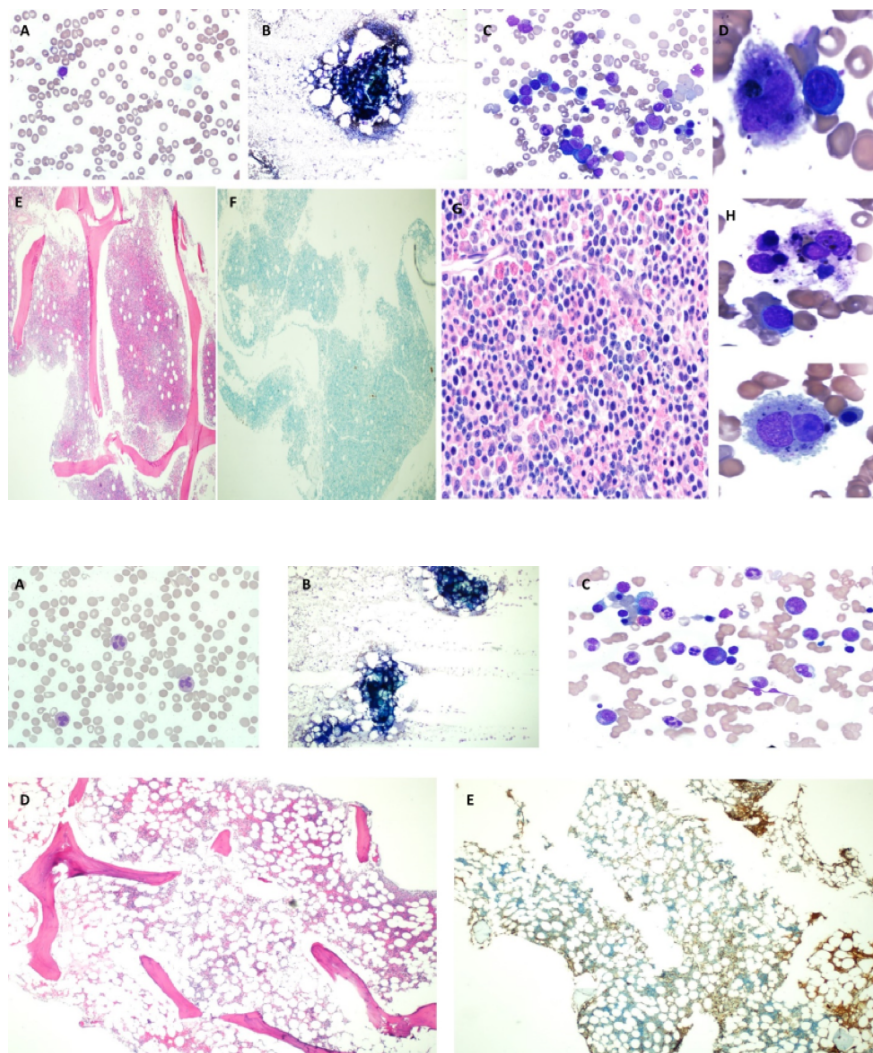
Abstract

Acquired Amegakaryocytic Thrombocytopenia is a rare hematologic condition, with <50 cases reported. It is characterized by severe thrombocytopenia with complete absence or severe reduction of megakaryocytes in the bone marrow with otherwise normal hematopoiesis. Its mechanism is not fully understood but is suggested to be related to anti-thrombopoietin antibodies.

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Case	AGE	SEX	Hb	WBC	PLT	RET	Type of Anemia	BM findings	Hemophagocytosis	Association	PNH Clone	Treatment	Progression	Outcome
1	48	F	6.6	8.8	20	Normal then reduced	Normocytic	Hypocellular with markedly reduced megakaryocytes	Present	H pylori	Present	IVIG + Steroids	Aplastic anemia	Not Improved
2	37	M	7.2	2.1	20	Low	Macrocytic	Cellular to hypercellular with decreased granulopoiesis and markedly decreased megakaryocytes. Erythropoiesis was increased, left-shifted with normoblastic and megaloblastoid maturation, with dyserythropoietic features (Picture of megaloblastic anemia).	Present	Low B12	Present	IVIG+ Steroids + Eltrombopag	Aplastic anemia	Not Improved
3	48	F	6.6	6.8	12	Normal then reduced	Macrocytic	Hypocellular with markedly reduced megakaryocytes	Present	Graves' disease	Present	Treatment of hyperthyroidism	No	Improved
4	25	M	9	9	5	High	Macrocytic	Complete absence of megakaryocytes in an otherwise normocellular marrow.	Not done	Brain Hemorrhage	No	IVIG + Steroids+ Cyclosporine	No	Improved
5	45	M	11.8	4	13	Normal then reduced	Macrocytic	Hypocellular to normocellular with markedly reduced megakaryocytes	No	Low B12	No	IVIG+ Steroids+ Cyclosporin + ATG	Aplastic anemia	Not Improved
6	44	F	9.5	5.2	15	High	Macrocytic	Cellularity varies with markedly suppressed Megakaryopoiesis	No	Vaginal bleeding + renal cyst	Not done	IVIG+ Steroids+ Eltrombopag	No	Improved
7	55	M	11.7	6.9	9	Normal then reduced	Normocytic	Cellularity varies with markedly suppressed Megakaryopoiesis	Present in the flow-up BM	MI	No	IVIG+ Steroids+ Eltrombopag + Cyclosporine	Aplastic anemia	Not Improved