

## Supplementary Appendix

### All Panelists

In each cell below, the group rated the appropriateness of the treatment strategies on a 1 to 9 scale, where:

1	← →	5	← →	9
highly inappropriate, risks outweigh the benefits		not sure (e.g., due to inadequate data) or the risks and benefits seem balanced		highly appropriate, benefits outweigh the risks

The following document presents the group's ratings median and range of ratings. Each cell is color coded. Cells in yellow are ones where the group disagreed (≥2 panelists gave that cell a rating of 1-3 and ≥2 panelists gave that cell a rating of 7-9); cells in blue are ones where the group agreed, with the darker blues representing higher medians, as shown in the key on the right.

Median	(Range)
Yellow: Disagreement (≥2 ratings of 1-3 and ≥2 ratings of 7-9)	
Blue 1: Median ≥7-9 without disagreement	
Blue 2: Median ≥4-<7 without disagreement	
Blue 3: Median 1-<4 without disagreement	

### Part I. Initial management

**Table 1.** First, imagine a patient in whom you have confirmed a diagnosis of acquired SAA (i.e., you have ruled out inherited SAA) who has not received any prior treatments. Consider the appropriateness of the following therapies first-line [8]. The columns and meta rows describe different types of patients. For example, the patient in cells A1-3 is a medically fit ≤20-year-old who has a matched related donor available.

Do your best to imagine a <u>typical patient</u> with these characteristics. For each patient, rate the appropriateness of the following therapies <u>first-line</u> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.		Medically fit [9] in the following age groups [10]					
		≤20	21-40	41-60	>60		
		years old	years old	years old	years old		
In a patient whose highest quality transplant is a	matched related [11] donor	HSCT	1	9.0 ( 9 - 9 )	9.0 ( 7 - 9 )	6.0 ( 4 - 9 )	5.0 ( 2 - 8 )
		Horse ATG + CsA + eltrombopag (triple IST)	2	5.0 ( 3 - 6 )	6.0 ( 3 - 8 )	8.0 ( 7 - 9 )	9.0 ( 5 - 9 )
		Horse ATG + CsA	3	6.0 ( 3 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	6.0 ( 2 - 8 )
	matched unrelated [12] donor	HSCT	4	7.0 ( 5 - 9 )	7.0 ( 4 - 9 )	5.0 ( 2 - 8 )	4.0 ( 1 - 8 )
		Horse ATG + CsA + eltrombopag (triple IST)	5	6.0 ( 3 - 9 )	8.0 ( 5 - 9 )	9.0 ( 7 - 9 )	9.0 ( 5 - 9 )
		Horse ATG + CsA	6	8.0 ( 6 - 9 )	6.0 ( 2 - 8 )	6.0 ( 2 - 9 )	7.0 ( 2 - 9 )
	haploidentical [13] donor	HSCT	7	6.0 ( 4 - 9 )	6.0 ( 4 - 9 )	5.0 ( 2 - 9 )	4.0 ( 1 - 8 )
		Horse ATG + CsA + eltrombopag (triple IST)	8	8.0 ( 3 - 9 )	8.0 ( 5 - 9 )	9.0 ( 7 - 9 )	9.0 ( 5 - 9 )
		Horse ATG + CsA	9	8.0 ( 6 - 9 )	6.0 ( 2 - 9 )	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )
	Unknown or no donor available	Horse ATG + CsA + eltrombopag (triple IST)	10	7.0 ( 5 - 9 )	9.0 ( 7 - 9 )	9.0 ( 7 - 9 )	9.0 ( 8 - 9 )
		Horse ATG + CsA	11	9.0 ( 6 - 9 )	7.0 ( 2 - 9 )	7.0 ( 2 - 9 )	7.0 ( 2 - 8 )

[8] Note that we are not asking you to consider CsA with or without eltrombopag in this table because we heard it is rare to recommend in medically fit patients

[9] ECOG ≤2 (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[10] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[11] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[12] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[13] A 5/10 match

**Part II. Subsequent management**

**Table 2a.** Next, imagine a patient who received **horse ATG + CsA + eltrombopag** (triple IST) first-line and was **refractory** [14] to this treatment. Consider the appropriateness of the following therapies **second-line** [15]. The columns and meta rows describe different types of patients. For example, the patient in cells A12-18 is a medically fit  $\leq 20$ -year-old who has a matched related donor available.

Do your best to imagine a typical patient with these characteristics. For each patient, rate the appropriateness of the following therapies <b>second-line</b> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.			Medically fit [16] in the following age groups [17]			
			$\leq 20$ years old	21-40 years old	41-60 years old	$>60$ years old
			A	B	C	D
matched related [18] donor	High intensity therapy [19]	HSCT <b>12</b>	9.0 ( 9 - 9 )	9.0 ( 8 - 9 )	8.0 ( 7 - 9 )	7.0 ( 4 - 8 )
		with eltrombopag <b>13</b>	4.0 ( 3 - 6 )	5.0 ( 3 - 6 )	6.0 ( 3 - 7 )	6.0 ( 3 - 7 )
		with romiplostim <b>14</b>	3.0 ( 2 - 6 )	4.0 ( 3 - 6 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )
	Low intensity therapy [20]	without TPO-RAs <b>15</b>	4.0 ( 1 - 5 )	4.0 ( 1 - 6 )	4.0 ( 1 - 6 )	4.0 ( 1 - 6 )
		with eltrombopag <b>16</b>	3.0 ( 1 - 4 )	3.0 ( 2 - 4 )	4.0 ( 2 - 7 )	4.0 ( 3 - 7 )
		with romiplostim <b>17</b>	3.0 ( 1 - 5 )	3.0 ( 2 - 5 )	4.0 ( 2 - 8 )	5.0 ( 3 - 8 )
without TPO-RAs <b>18</b>	2.0 ( 1 - 4 )	2.0 ( 1 - 4 )	3.0 ( 1 - 5 )	3.0 ( 2 - 8 )		
In a patient whose highest quality transplant is a matched unrelated [21] donor	High intensity therapy	HSCT <b>19</b>	9.0 ( 8 - 9 )	9.0 ( 8 - 9 )	7.0 ( 7 - 9 )	6.0 ( 3 - 8 )
		with eltrombopag <b>20</b>	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	6.0 ( 3 - 9 )	6.0 ( 2 - 9 )
		with romiplostim <b>21</b>	4.0 ( 3 - 6 )	4.0 ( 3 - 6 )	4.0 ( 3 - 8 )	5.0 ( 3 - 8 )
	Low intensity therapy	without TPO-RAs <b>22</b>	4.0 ( 1 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )
		with eltrombopag <b>23</b>	3.0 ( 1 - 4 )	3.0 ( 1 - 8 )	4.0 ( 1 - 8 )	5.0 ( 1 - 8 )
		with romiplostim <b>24</b>	2.0 ( 1 - 5 )	3.0 ( 2 - 7 )	4.0 ( 2 - 8 )	5.0 ( 3 - 9 )
without TPO-RAs <b>25</b>	2.0 ( 1 - 4 )	2.0 ( 1 - 4 )	3.0 ( 2 - 6 )	3.0 ( 2 - 8 )		
haploidentical [22] donor	High intensity therapy	HSCT <b>26</b>	8.0 ( 7 - 9 )	8.0 ( 5 - 9 )	7.0 ( 6 - 9 )	5.0 ( 3 - 8 )
		with eltrombopag <b>27</b>	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	6.0 ( 3 - 9 )	7.0 ( 2 - 9 )
		with romiplostim <b>28</b>	5.0 ( 3 - 6 )	5.0 ( 3 - 6 )	5.0 ( 3 - 8 )	6.0 ( 3 - 8 )
	Low intensity therapy	without TPO-RAs <b>29</b>	4.0 ( 1 - 8 )	4.0 ( 1 - 8 )	4.0 ( 1 - 8 )	4.0 ( 1 - 8 )
		with eltrombopag <b>30</b>	3.0 ( 1 - 5 )	4.0 ( 2 - 8 )	5.0 ( 2 - 8 )	6.0 ( 3 - 8 )
		with romiplostim <b>31</b>	3.0 ( 1 - 5 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	6.0 ( 4 - 9 )
without TPO-RAs <b>32</b>	2.0 ( 1 - 4 )	2.0 ( 1 - 4 )	3.0 ( 2 - 6 )	4.0 ( 2 - 8 )		

[14] Lack of response with persistent severe pancytopenia at 6 months after 1 course of IST and still meets criteria for SAA (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[15] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[16] ECOG  $\leq 2$  (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[17] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[18] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[19] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[20] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[21] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[22] A 5/10 match

**Table 2b.** Next, imagine a patient who received horse **ATG + CsA + eltrombopag** (triple IST) first-line, **relapsed** [23], and again meets the criteria for SAA. Assume the patient initially responded to treatment, is still on full dose **CsA +/- eltrombopag** (e.g., within <12 months since initiation of therapy), and this relapse is **not** a loss of response as a result of discontinuation of eltrombopag. Consider the appropriateness of the following therapies **second-line** [24]. The columns and meta rows describe different types of patients. For example, the patient in cells A33-40 is a medically fit ≤20-year-old who has a matched related donor available.

Do your best to imagine a typical patient with these characteristics. For each patient, rate the appropriateness of the following therapies <b>second-line</b> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.			Medically fit [25] in the following age groups [26]				
			≤20 years old	21-40 years old	41-60 years old	>60 years old	
			A	B	C	D	
matched related [27] donor	HSCT	33	9.0 ( 9 - 9 )	9.0 ( 8 - 9 )	8.0 ( 7 - 9 )	6.0 ( 5 - 8 )	
	with eltrombopag	34	6.0 ( 2 - 9 )	6.0 ( 2 - 9 )	6.0 ( 4 - 9 )	7.0 ( 2 - 9 )	
	High intensity therapy [28]	with romiplostim	35	4.0 ( 2 - 5 )	4.0 ( 2 - 8 )	5.0 ( 2 - 9 )	5.0 ( 3 - 9 )
		without TPO-RAs	36	4.0 ( 2 - 6 )	3.0 ( 2 - 6 )	3.0 ( 2 - 6 )	3.0 ( 1 - 6 )
	Low intensity therapy [29]	with eltrombopag	37	2.0 ( 2 - 6 )	3.0 ( 2 - 6 )	4.0 ( 2 - 6 )	5.0 ( 2 - 7 )
		with romiplostim	38	2.0 ( 2 - 5 )	3.0 ( 2 - 8 )	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )
		without TPO-RAs	39	2.0 ( 1 - 3 )	3.0 ( 1 - 5 )	2.0 ( 2 - 6 )	3.0 ( 2 - 6 )
		Eltrombopag (single agent only)	40	2.0 ( 1 - 3 )	2.0 ( 1 - 5 )	4.0 ( 1 - 6 )	5.0 ( 1 - 6 )
	In a patient whose highest quality transplant is a matched unrelated [30] donor	HSCT	41	9.0 ( 8 - 9 )	9.0 ( 7 - 9 )	7.0 ( 5 - 9 )	6.0 ( 4 - 8 )
		with eltrombopag	42	6.0 ( 2 - 9 )	6.0 ( 2 - 9 )	6.0 ( 4 - 9 )	6.0 ( 1 - 9 )
High intensity therapy		with romiplostim	43	4.0 ( 2 - 6 )	5.0 ( 2 - 8 )	5.0 ( 3 - 9 )	5.0 ( 1 - 9 )
		without TPO-RAs	44	4.0 ( 2 - 7 )	4.0 ( 2 - 6 )	3.0 ( 2 - 6 )	3.0 ( 1 - 6 )
Low intensity therapy		with eltrombopag	45	3.0 ( 2 - 6 )	3.0 ( 2 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )
		with romiplostim	46	2.0 ( 2 - 5 )	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	5.0 ( 2 - 8 )
		without TPO-RAs	47	2.0 ( 1 - 3 )	3.0 ( 1 - 5 )	3.0 ( 2 - 7 )	3.0 ( 2 - 6 )
Eltrombopag (single agent only)	48	2.0 ( 1 - 5 )	2.0 ( 1 - 5 )	3.0 ( 1 - 6 )	5.0 ( 1 - 6 )		
haploidentical [31] donor	HSCT	49	9.0 ( 3 - 9 )	8.0 ( 7 - 9 )	7.0 ( 4 - 9 )	5.0 ( 3 - 8 )	
	with eltrombopag	50	6.0 ( 4 - 9 )	7.0 ( 2 - 9 )	7.0 ( 2 - 9 )	7.0 ( 1 - 9 )	
	High intensity therapy	with romiplostim	51	4.0 ( 2 - 8 )	5.0 ( 2 - 8 )	5.0 ( 2 - 9 )	5.0 ( 1 - 9 )
		without TPO-RAs	52	5.0 ( 2 - 7 )	4.0 ( 2 - 7 )	3.0 ( 2 - 6 )	3.0 ( 1 - 6 )
	Low intensity therapy	with eltrombopag	53	4.0 ( 2 - 6 )	4.0 ( 2 - 7 )	4.0 ( 2 - 7 )	4.0 ( 2 - 7 )
		with romiplostim	54	3.0 ( 2 - 5 )	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )
		without TPO-RAs	55	2.0 ( 1 - 4 )	3.0 ( 1 - 5 )	3.0 ( 2 - 5 )	3.0 ( 2 - 6 )
Eltrombopag (single agent only)	56	2.0 ( 1 - 6 )	3.0 ( 1 - 6 )	5.0 ( 1 - 6 )	5.0 ( 1 - 6 )		

[23] Initially responded to treatment but requires a reintroduction to or escalation of immunosuppression for decreasing blood counts, usually but not always accompanying a reinstatement of transfusions (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[24] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[25] ECOG ≤2 (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[26] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[27] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[28] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[29] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[30] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[31] A 5/10 match

**Table 2c.** Next, imagine a patient who received horse **ATG + CsA + eltrombopag** (triple IST) first-line, **relapsed** [32], and again meets the criteria for SAA. Assume the patient had a complete response, is no longer on full dose CsA or eltrombopag (e.g., after ≥12 months since initiation of therapy), and this is **not** a gradual loss of response during a taper [33]. Consider the appropriateness of the following therapies **second-line** [34]. The columns and meta rows describe different types of patients. For example, the patient in cells A57-64 is a medically fit ≤20-year-old who has a matched related donor available.

Do your best to imagine a <u>typical patient</u> with these characteristics. For each patient, rate the appropriateness of the following therapies <u>second-line</u> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.			Medically fit [35] in the following age groups [36]				
			≤20	21-40	41-60	>60	
			years old	years old	years old	years old	
			A	B	C	D	
In a patient whose highest quality transplant is a	matched related [37] donor	HSCT	57	9.0 ( 7 - 9 )	9.0 ( 7 - 9 )	7.0 ( 4 - 9 )	6.0 ( 4 - 8 )
		with eltrombopag	58	6.0 ( 5 - 8 )	6.0 ( 5 - 8 )	7.0 ( 5 - 9 )	6.0 ( 5 - 8 )
		High intensity therapy [38] with romiplostim	59	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 4 - 8 )	5.0 ( 3 - 8 )
		without TPO-RAs	60	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	4.0 ( 3 - 8 )	5.0 ( 3 - 8 )
		with eltrombopag	61	5.0 ( 2 - 9 )	5.0 ( 2 - 9 )	6.0 ( 2 - 9 )	5.0 ( 2 - 9 )
		Low intensity therapy [39] with romiplostim	62	3.0 ( 1 - 5 )	4.0 ( 1 - 8 )	5.0 ( 2 - 5 )	5.0 ( 2 - 9 )
	without TPO-RAs	63	3.0 ( 1 - 5 )	3.0 ( 1 - 5 )	4.0 ( 2 - 6 )	4.0 ( 2 - 8 )	
	Eltrombopag (single agent only)	64	2.0 ( 1 - 4 )	2.0 ( 1 - 5 )	4.0 ( 1 - 6 )	5.0 ( 1 - 7 )	
	matched unrelated [40] donor	HSCT	65	8.0 ( 7 - 9 )	8.0 ( 7 - 9 )	7.0 ( 4 - 9 )	5.0 ( 4 - 7 )
		with eltrombopag	66	6.0 ( 5 - 9 )	6.0 ( 5 - 9 )	7.0 ( 5 - 9 )	6.0 ( 5 - 8 )
		High intensity therapy with romiplostim	67	4.0 ( 2 - 8 )	5.0 ( 2 - 8 )	6.0 ( 4 - 8 )	5.0 ( 4 - 8 )
		without TPO-RAs	68	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )
with eltrombopag		69	5.0 ( 2 - 9 )	5.0 ( 2 - 9 )	6.0 ( 2 - 9 )	6.0 ( 3 - 9 )	
Low intensity therapy with romiplostim		70	3.0 ( 1 - 6 )	4.0 ( 1 - 8 )	5.0 ( 2 - 6 )	5.0 ( 2 - 8 )	
without TPO-RAs	71	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )	5.0 ( 2 - 6 )	4.0 ( 2 - 7 )		
Eltrombopag (single agent only)	72	2.0 ( 1 - 4 )	3.0 ( 1 - 6 )	4.0 ( 1 - 6 )	5.0 ( 1 - 6 )		
haploidentical [41] donor	HSCT	73	8.0 ( 7 - 9 )	8.0 ( 6 - 9 )	7.0 ( 5 - 9 )	5.0 ( 1 - 7 )	
	with eltrombopag	74	6.0 ( 5 - 9 )	6.0 ( 5 - 9 )	8.0 ( 4 - 9 )	7.0 ( 5 - 8 )	
	High intensity therapy with romiplostim	75	4.0 ( 2 - 8 )	6.0 ( 2 - 8 )	7.0 ( 4 - 8 )	5.0 ( 4 - 8 )	
	without TPO-RAs	76	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	4.0 ( 3 - 8 )	5.0 ( 3 - 8 )	
	with eltrombopag	77	5.0 ( 2 - 9 )	5.0 ( 2 - 9 )	6.0 ( 2 - 9 )	6.0 ( 2 - 9 )	
	Low intensity therapy with romiplostim	78	3.0 ( 1 - 6 )	4.0 ( 1 - 8 )	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	
without TPO-RAs	79	3.0 ( 1 - 6 )	4.0 ( 1 - 6 )	5.0 ( 2 - 6 )	5.0 ( 2 - 6 )		
Eltrombopag (single agent only)	80	2.0 ( 1 - 5 )	4.0 ( 1 - 6 )	4.0 ( 1 - 6 )	5.0 ( 1 - 8 )		

[32] Initially responded to treatment but requires a reintroduction to or escalation of immunosuppression for decreasing blood counts, usually but not always accompanying a reinstitution of transfusions (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[33] If the patient experienced a gradual loss of response during a medication taper (e.g., eltrombopag, CsA), treatment would include reverting back to the prior, higher dose of medication

[34] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[35] ECOG ≤2 (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[36] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[37] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[38] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[39] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[40] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[41] A 5/10 match

**Table 3a.** Next, imagine a patient who received **horse ATG + CsA** (without eltrombopag) first-line and was **refractory** [42] to this treatment. Consider the appropriateness of the following therapies **second-line** [43]. The columns and meta rows describe different types of patients. For example, the patient in cells A81-88 is a medically fit  $\leq 20$ -year-old who has a matched related donor available.

Do your best to imagine a <u>typical patient</u> with these characteristics. For each patient, rate the appropriateness of the following therapies <b>second-line</b> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.		Medically fit [44] in the following age groups [45]					
		$\leq 20$	21-40	41-60	$>60$		
		years old	years old	years old	years old		
matched related [46] donor	HSCT	81	9.0 ( 7 - 9 )	9.0 ( 7 - 9 )	8.0 ( 4 - 9 )	7.0 ( 1 - 8 )	
	High intensity therapy [47]	with eltrombopag	82	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )
		with romiplostim	83	4.0 ( 1 - 5 )	4.0 ( 1 - 5 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )
		without TPO-RAs	84	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	4.0 ( 1 - 8 )	5.0 ( 1 - 8 )
	Low intensity therapy [48]	with eltrombopag	85	5.0 ( 2 - 8 )	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )
		with romiplostim	86	3.0 ( 3 - 7 )	4.0 ( 3 - 7 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )
		without TPO-RAs	87	3.0 ( 2 - 4 )	3.0 ( 2 - 4 )	3.0 ( 2 - 5 )	3.0 ( 2 - 5 )
	Eltrombopag (single agent only)	88	3.0 ( 2 - 5 )	5.0 ( 2 - 6 )	6.0 ( 2 - 7 )	6.0 ( 3 - 7 )	
In a patient whose highest quality transplant is a matched unrelated [49] donor	HSCT	89	9.0 ( 6 - 9 )	9.0 ( 6 - 9 )	7.0 ( 4 - 9 )	6.0 ( 1 - 8 )	
	High intensity therapy	with eltrombopag	90	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )	6.0 ( 4 - 9 )	6.0 ( 4 - 9 )
		with romiplostim	91	4.0 ( 1 - 5 )	4.0 ( 1 - 5 )	5.0 ( 4 - 7 )	5.0 ( 3 - 7 )
		without TPO-RAs	92	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	4.0 ( 1 - 8 )	5.0 ( 1 - 8 )
	Low intensity therapy	with eltrombopag	93	5.0 ( 2 - 8 )	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )	6.0 ( 4 - 8 )
		with romiplostim	94	3.0 ( 2 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 3 - 8 )
		without TPO-RAs	95	3.0 ( 2 - 4 )	3.0 ( 2 - 4 )	3.0 ( 2 - 5 )	3.0 ( 2 - 5 )
	Eltrombopag (single agent only)	96	3.0 ( 1 - 5 )	5.0 ( 1 - 6 )	6.0 ( 2 - 8 )	6.0 ( 3 - 8 )	
haploidentical [50] donor	HSCT	97	9.0 ( 6 - 9 )	8.0 ( 6 - 9 )	7.0 ( 3 - 9 )	6.0 ( 1 - 8 )	
	High intensity therapy	with eltrombopag	98	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )	7.0 ( 4 - 8 )	7.0 ( 4 - 8 )
		with romiplostim	99	5.0 ( 1 - 6 )	5.0 ( 1 - 6 )	5.0 ( 4 - 8 )	5.0 ( 3 - 8 )
		without TPO-RAs	100	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	4.0 ( 1 - 8 )	5.0 ( 1 - 8 )
	Low intensity therapy	with eltrombopag	101	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )	6.0 ( 2 - 8 )	7.0 ( 4 - 8 )
		with romiplostim	102	3.0 ( 2 - 7 )	5.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 3 - 8 )
		without TPO-RAs	103	3.0 ( 2 - 4 )	3.0 ( 2 - 4 )	3.0 ( 2 - 5 )	3.0 ( 2 - 5 )
	Eltrombopag (single agent only)	104	3.0 ( 1 - 6 )	5.0 ( 1 - 6 )	6.0 ( 2 - 8 )	6.0 ( 3 - 8 )	

[42] Lack of response with persistent severe pancytopenia at 6 months after 1 course of IST and still meets criteria for SAA (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[43] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[44] ECOG  $\leq 2$  (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[45] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[46] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[47] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[48] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[49] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[50] A 5/10 match

**Table 3b.** Next, imagine a patient who received **horse ATG + CsA** (without eltrombopag) first-line, **relapsed** [51], and again meets the criteria for SAA. Assume the patient initially responded to treatment and is still on full dose **CsA** (e.g., within <12 months since initiation of therapy). Consider the appropriateness of the following therapies **second-line** [52]. The columns and meta rows describe different types of patients. For example, the patient in cells A105-112 is a medically fit ≤20-year-old who has a matched related donor available.

Do your best to imagine a typical patient with these characteristics. For each patient, rate the appropriateness of the following therapies <b>second-line</b> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.			Medically fit [53] in the following age groups [54]				
			≤20	21-40	41-60	>60	
			years old	years old	years old	years old	
In a patient whose highest quality transplant is a	matched related [55] donor	HSCT	105	9.0 ( 5 - 9 )	9.0 ( 5 - 9 )	7.0 ( 1 - 9 )	7.0 ( 1 - 8 )
		with eltrombopag	106	5.0 ( 4 - 8 )	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )
		High intensity therapy [56] with romiplostim	107	4.0 ( 2 - 5 )	4.0 ( 2 - 5 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )
		without TPO-RAs	108	3.0 ( 2 - 7 )	3.0 ( 1 - 7 )	3.0 ( 1 - 5 )	3.0 ( 1 - 5 )
		with eltrombopag	109	6.0 ( 2 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 9 )	7.0 ( 4 - 9 )
		Low intensity therapy [57] with romiplostim	110	4.0 ( 2 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )
	without TPO-RAs	111	3.0 ( 1 - 4 )	3.0 ( 1 - 4 )	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	
	Eltrombopag (single agent only)	112	3.0 ( 2 - 5 )	3.0 ( 2 - 6 )	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	
	matched unrelated [58] donor	HSCT	113	9.0 ( 5 - 9 )	9.0 ( 5 - 9 )	7.0 ( 1 - 9 )	6.0 ( 1 - 8 )
		with eltrombopag	114	6.0 ( 4 - 9 )	6.0 ( 4 - 9 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )
		High intensity therapy with romiplostim	115	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )
		without TPO-RAs	116	4.0 ( 1 - 7 )	4.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
with eltrombopag		117	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	6.0 ( 4 - 9 )	6.0 ( 4 - 9 )	
Low intensity therapy with romiplostim		118	3.0 ( 2 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )	
without TPO-RAs	119	3.0 ( 1 - 5 )	3.0 ( 1 - 5 )	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )		
Eltrombopag (single agent only)	120	3.0 ( 1 - 5 )	3.0 ( 2 - 6 )	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )		
haploidentical [59] donor	HSCT	121	8.0 ( 7 - 9 )	8.0 ( 7 - 9 )	6.0 ( 6 - 9 )	5.0 ( 2 - 8 )	
	with eltrombopag	122	6.0 ( 4 - 8 )	6.0 ( 4 - 7 )	7.0 ( 4 - 8 )	7.0 ( 4 - 8 )	
	High intensity therapy with romiplostim	123	4.0 ( 2 - 5 )	4.0 ( 2 - 5 )	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )	
	without TPO-RAs	124	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	4.0 ( 1 - 5 )	4.0 ( 1 - 5 )	
	with eltrombopag	125	5.0 ( 2 - 7 )	5.0 ( 4 - 7 )	6.0 ( 4 - 9 )	7.0 ( 4 - 9 )	
	Low intensity therapy with romiplostim	126	4.0 ( 2 - 7 )	4.0 ( 2 - 7 )	5.0 ( 2 - 8 )	5.0 ( 2 - 8 )	
without TPO-RAs	127	3.0 ( 1 - 4 )	3.0 ( 1 - 5 )	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )		
Eltrombopag (single agent only)	128	4.0 ( 1 - 5 )	4.0 ( 2 - 6 )	5.0 ( 2 - 7 )	5.0 ( 2 - 7 )		

[51] Initially responded to treatment but requires a reintroduction to or escalation of immunosuppression for decreasing blood counts, usually but not always accompanying a reinstatement of transfusions (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[52] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[53] ECOG ≤2 (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[54] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[55] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[56] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[57] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[58] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[59] A 5/10 match

**Table 3c.** Next, imagine a patient who received **horse ATG + CsA** (without eltrombopag) first-line, **relapsed** [60], and again meets the criteria for SAA. Assume the patient had a complete response, is no longer on full dose CsA (e.g., after ≥12 months since initiation of therapy), and this is **not** a gradual loss of response during a taper [61]. Consider the appropriateness of the following therapies **second-line** [62]. The columns and meta rows describe different types of patients. For example, the patient in cells A129-136 is a medically fit ≤20-year-old who has a matched related donor available.

Do your best to imagine a typical patient with these characteristics. For each patient, rate the appropriateness of the following therapies <b>second-line</b> on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.		Medically fit [63] in the following age groups [64]				
		≤20	21-40	41-60	>60	
		years old	years old	years old	years old	
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	
matched related [65] donor	HSCT	129	9.0 ( 7 - 9 )	9.0 ( 6 - 9 )	7.0 ( 2 - 9 )	6.0 ( 2 - 8 )
	with eltrombopag	130	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )	8.0 ( 5 - 8 )
	High intensity therapy [66] with romiplostim	131	5.0 ( 2 - 6 )	5.0 ( 3 - 6 )	5.0 ( 4 - 7 )	5.0 ( 4 - 7 )
	without TPO-RAs	132	4.0 ( 2 - 7 )	4.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
	Low intensity therapy [67] with eltrombopag	133	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 8 )
	with romiplostim	134	4.0 ( 3 - 9 )	5.0 ( 3 - 9 )	5.0 ( 3 - 9 )	6.0 ( 3 - 8 )
	without TPO-RAs	135	3.0 ( 2 - 8 )	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )
	Eltrombopag (single agent only)	136	3.0 ( 2 - 5 )	4.0 ( 2 - 6 )	5.0 ( 2 - 6 )	5.0 ( 2 - 7 )
	HSCT	137	9.0 ( 7 - 9 )	9.0 ( 6 - 9 )	7.0 ( 2 - 8 )	6.0 ( 2 - 8 )
	with eltrombopag	138	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )	7.0 ( 5 - 8 )
	High intensity therapy with romiplostim	139	5.0 ( 2 - 6 )	5.0 ( 3 - 6 )	5.0 ( 4 - 7 )	5.0 ( 4 - 7 )
	without TPO-RAs	140	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
Low intensity therapy with eltrombopag	141	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 7 )	7.0 ( 4 - 8 )	
with romiplostim	142	4.0 ( 2 - 7 )	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )	
without TPO-RAs	143	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	
Eltrombopag (single agent only)	144	3.0 ( 2 - 5 )	4.0 ( 2 - 6 )	5.0 ( 2 - 6 )	5.0 ( 2 - 7 )	
In a patient whose highest quality transplant is a matched unrelated [68] donor	HSCT	145	8.0 ( 6 - 9 )	8.0 ( 6 - 9 )	6.0 ( 2 - 8 )	5.0 ( 2 - 8 )
	with eltrombopag	146	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )	7.0 ( 5 - 8 )
	High intensity therapy with romiplostim	147	5.0 ( 2 - 5 )	5.0 ( 3 - 5 )	5.0 ( 4 - 7 )	5.0 ( 4 - 7 )
	without TPO-RAs	148	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
	Low intensity therapy with eltrombopag	149	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 8 )
	with romiplostim	150	4.0 ( 2 - 7 )	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )
	without TPO-RAs	151	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )
	Eltrombopag (single agent only)	152	4.0 ( 2 - 5 )	4.0 ( 2 - 6 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )
	HSCT	145	8.0 ( 6 - 9 )	8.0 ( 6 - 9 )	6.0 ( 2 - 8 )	5.0 ( 2 - 8 )
	with eltrombopag	146	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )	7.0 ( 5 - 8 )
	High intensity therapy with romiplostim	147	5.0 ( 2 - 5 )	5.0 ( 3 - 5 )	5.0 ( 4 - 7 )	5.0 ( 4 - 7 )
	without TPO-RAs	148	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
Low intensity therapy with eltrombopag	149	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 8 )	
with romiplostim	150	4.0 ( 2 - 7 )	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )	
without TPO-RAs	151	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	
Eltrombopag (single agent only)	152	4.0 ( 2 - 5 )	4.0 ( 2 - 6 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )	
haploidentical [69] donor	HSCT	145	8.0 ( 6 - 9 )	8.0 ( 6 - 9 )	6.0 ( 2 - 8 )	5.0 ( 2 - 8 )
	with eltrombopag	146	6.0 ( 4 - 8 )	6.0 ( 4 - 8 )	7.0 ( 4 - 8 )	7.0 ( 5 - 8 )
	High intensity therapy with romiplostim	147	5.0 ( 2 - 5 )	5.0 ( 3 - 5 )	5.0 ( 4 - 7 )	5.0 ( 4 - 7 )
	without TPO-RAs	148	3.0 ( 1 - 7 )	3.0 ( 1 - 7 )	3.0 ( 1 - 5 )	4.0 ( 1 - 5 )
	Low intensity therapy with eltrombopag	149	5.0 ( 2 - 7 )	6.0 ( 4 - 7 )	6.0 ( 4 - 7 )	7.0 ( 4 - 8 )
	with romiplostim	150	4.0 ( 2 - 7 )	5.0 ( 3 - 7 )	5.0 ( 3 - 8 )	5.0 ( 3 - 8 )
	without TPO-RAs	151	3.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )	4.0 ( 2 - 8 )
	Eltrombopag (single agent only)	152	4.0 ( 2 - 5 )	4.0 ( 2 - 6 )	4.0 ( 2 - 7 )	5.0 ( 2 - 7 )

[60] Initially responded to treatment but requires a reintroduction to or escalation of immunosuppression for decreasing blood counts, usually but not always accompanying a reinstatement of transfusions (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[61] If the patient experienced a gradual loss of response during a medication taper (e.g., eltrombopag, CsA), treatment would include reverting back to the prior, higher dose of medication

[62] After confirming there is no evidence of clonal evolution (e.g., MDS, AML)

[63] ECOG ≤2 (0=Fully active, no performance restrictions; 1=Strenuous physical activity restricted, fully ambulatory and able to carry out light work; 2=Capable of all self-care but unable to carry out any work activities, up and about >50% of waking hours)

[64] Age categories based on Tichelli Haematologica 2020 (<https://www.haematologica.org/article/view/9378>)

[65] Matched sibling donor (MSD), may include matched family donor (MFD), a 10/10 match

[66] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[67] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[68] Includes matched unrelated (MUD), may also include cord blood, a 10/10 match

[69] A 5/10 match

**Part III. Medically unfit patients**

**Table 4.** Now think about patients who are medically unfit, regardless of age. Rate the appropriateness of the following first- and second-line therapies in these patients. We have not asked you to consider transplant or donor availability in these patients since they would not be eligible for transplant.

Do your best to imagine a <u>typical patient</u> with these characteristics. Rate the appropriateness of the following therapies on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.			Medically unfit [70] regardless of age	
			A	
<b>First-line therapy</b>				
No prior therapies (i.e., rate first-line therapy)	High intensity [71] therapy with eltrombopag	153	7.0 ( 2 - 9 )	
	High intensity therapy without eltrombopag	154	5.0 ( 1 - 8 )	
	Low intensity [72] therapy with eltrombopag	155	7.0 ( 6 - 9 )	
	Low intensity therapy without eltrombopag	156	6.0 ( 2 - 8 )	
<b>Second-line therapy</b>				
Received any IST [73] with eltrombopag first-line	and was refractory [74] to this therapy	Low intensity therapy [72] with eltrombopag	157	5.0 ( 3 - 8 )
		with romiplostim	158	6.0 ( 3 - 9 )
		without TPO-RAs	159	4.0 ( 2 - 9 )
	and relapsed [75] without complete response	Low intensity therapy with eltrombopag	160	7.0 ( 5 - 8 )
		with romiplostim	161	6.0 ( 5 - 9 )
		without TPO-RAs	162	4.0 ( 2 - 9 )
		Eltrombopag (single agent only)	163	6.0 ( 3 - 8 )
	and relapsed after complete response [76]	Low intensity therapy with eltrombopag	164	8.0 ( 6 - 9 )
		with romiplostim	165	6.0 ( 5 - 9 )
		without TPO-RAs	166	4.0 ( 2 - 7 )
	Eltrombopag (single agent only)	167	6.0 ( 3 - 8 )	
	Received any IST without eltrombopag first-line	and was refractory to this therapy	Low intensity therapy with eltrombopag	168
with romiplostim			169	6.0 ( 4 - 8 )
without TPO-RAs			170	4.0 ( 2 - 5 )
Eltrombopag (single agent only)		171	7.0 ( 3 - 9 )	
and relapsed without complete response		Low intensity therapy with eltrombopag	172	8.0 ( 6 - 9 )
		with romiplostim	173	6.0 ( 5 - 8 )
		without TPO-RAs	174	4.0 ( 2 - 5 )
		Eltrombopag (single agent only)	175	7.0 ( 3 - 9 )
and relapsed after complete response		Low intensity therapy with eltrombopag	176	8.0 ( 7 - 9 )
		with romiplostim	177	6.0 ( 5 - 8 )
		without TPO-RAs	178	4.0 ( 2 - 8 )
Eltrombopag (single agent only)		179	7.0 ( 3 - 8 )	

[70] ECOG >2 (3=Capable of only limited self-care, confined to bed or chair >50% of waking hours; 4=Completely disabled, cannot carry out any self-care, totally confined to bed or chair)

[71] Includes a combination of agents or single agent cyclophosphamide or alemtuzumab (see examples in "Definitions and acronyms" section above)

[72] Includes single agents other than cyclophosphamide, alemtuzumab, or TPO-RAs (see examples in "Definitions and acronyms" section above)

[73] Includes horse or rabbit ATG, CsA, or other non-CsA immunosuppressants (e.g., mycophenolate mofetil, sirolimus, tacrolimus, alemtuzumab) (see "Definitions and acronyms" section above)

[74] Lack of response with persistent severe pancytopenia at 6 months after 1 course of IST and still meets criteria for SAA (<https://pubmed.ncbi.nlm.nih.gov/22517900/>)

[75] Initially responded to treatment but requires a reintroduction to or escalation of immunosuppression for decreasing blood counts, usually but not always accompanying a reinstatement of transfusions (<https://pubmed.ncbi.nlm.nih.gov/22517900/>); meets criteria for SAA

[76] Assume the patient meets criteria for SAA



**Part IV. Supportive care**

**Table 5.** Now, we would like you to think about supportive care prior to and during first-line therapy, regardless of whether the patient received medical therapy or was transplanted. Rate the appropriateness of recommending the following supportive care.

Do your best to imagine a typical patient. Rate appropriateness on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.		A
Leukoreduced, irradiated red blood cell and platelet transfusion	In patients with hemoglobin <7, platelets <10,000, or symptomatic	180 9.0 ( 9 - 9 )
	In asymptomatic patients with higher counts than listed in row 180	181 4.0 ( 1 - 9 )
Antibiotic prophylaxis for pneumocystis pneumonia [77] (e.g., Bactrim, pentamidine)		182 9.0 ( 5 - 9 )
Antibiotic prophylaxis for gram negative coverage [77] (e.g., levofloxacin)		183 7.0 ( 3 - 9 )
Antifungal prophylaxis [77] (e.g., voriconazole, fluconazole)		184 9.0 ( 4 - 9 )
Antiviral prophylaxis [77] (e.g., acyclovir)		185 9.0 ( 3 - 9 )

[77] In patients without an active infection

**Part V. Ruling out inherited SAA**

**Table 6.** Lastly, consider tests to rule out inherited SAA or rule in acquired SAA [78]. Many of these tests are available in NGS panels. Depending on the specific NGS panel, some may have to be ordered individually if not available.

Do your best to imagine a typical patient. Rate the appropriateness on a 1 to 9 scale, where 1 is highly inappropriate and 9 is highly appropriate.	Patient age			
	≤20 years old	21-40 years old	41-60 years old	>60 years old
	A	B	C	D
<b>Tests to rule out inherited SAA</b>				
Chromosome breakage analysis for Fanconi anemia	186 9.0 ( 9 - 9 )	9.0 ( 8 - 9 )	7.0 ( 3 - 9 )	3.0 ( 2 - 7 )
Telomere length analysis for Dyskeratosis congenita	187 9.0 ( 5 - 9 )	9.0 ( 5 - 9 )	7.0 ( 5 - 9 )	5.0 ( 3 - 7 )
Genetic testing for Dyskeratosis congenita	188 7.0 ( 5 - 9 )	7.0 ( 4 - 9 )	5.0 ( 1 - 7 )	4.0 ( 1 - 5 )
Genetic testing for germline RUNX1 mutation	189 6.0 ( 4 - 9 )	6.0 ( 2 - 9 )	5.0 ( 2 - 7 )	4.0 ( 1 - 5 )
Genetic testing for Shwachman-Bodian-Diamond syndrome	190 9.0 ( 2 - 9 )	8.0 ( 1 - 9 )	3.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for Diamond-Blackfan anemia	191 9.0 ( 1 - 9 )	7.0 ( 1 - 9 )	4.0 ( 1 - 6 )	3.0 ( 1 - 6 )
Genetic testing for GATA2 deficiency	192 5.0 ( 1 - 9 )	5.0 ( 1 - 9 )	4.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for germline c-MPL mutation	193 5.0 ( 2 - 9 )	5.0 ( 1 - 7 )	3.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for germline MECOM mutation	194 5.0 ( 2 - 8 )	5.0 ( 1 - 7 )	3.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for SAMD9/SAMD9L syndromes	195 6.0 ( 5 - 9 )	5.0 ( 1 - 9 )	5.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for CTLA4 deficiency	196 5.0 ( 3 - 9 )	4.0 ( 1 - 9 )	4.0 ( 1 - 6 )	3.0 ( 1 - 5 )
Genetic testing for congenital neutropenia	197 4.0 ( 1 - 7 )	4.0 ( 1 - 7 )	3.0 ( 1 - 6 )	2.0 ( 1 - 5 )
<b>Tests to rule in acquired SAA</b>				
PNH flow cytometry [79]	198 9.0 ( 9 - 9 )	9.0 ( 9 - 9 )	9.0 ( 8 - 9 )	9.0 ( 8 - 9 )
Genetic testing for 6p CN-LOH clone [79]	199 9.0 ( 5 - 9 )	9.0 ( 5 - 9 )	7.0 ( 5 - 9 )	7.0 ( 6 - 9 )

[78] DeZern AE, Churpek JE. Approach to the diagnosis of aplastic anemia. Blood Adv. 2021 Jun 22;5(12):2660-71. <https://doi.org/10.1182/bloodadvances.2021004345>