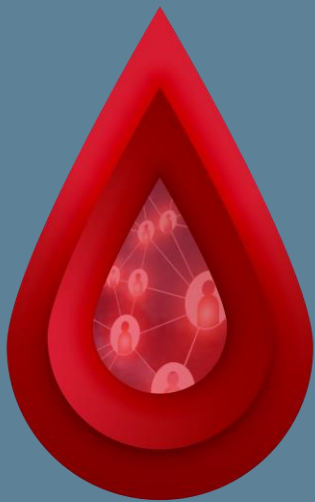


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THE HEART OF MEDICAL EDUCATION



PRACTICAL CONSIDERATIONS AROUND THE USE OF TPO-RAs IN ITP

**AN INDEPENDENT, CME-ACCREDITED SYMPOSIUM
20 July 2021**

DISCLAIMER

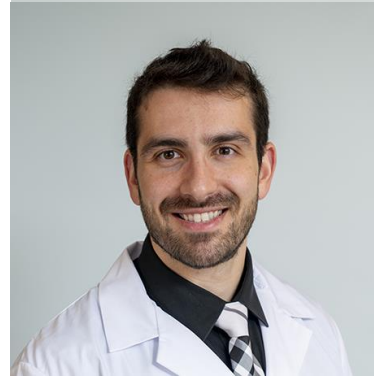
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- **Please note:** The views expressed within this presentation are the personal opinions of the experts. They do not necessarily represent the views of the experts' academic institutions or the rest of the faculty

TODAY'S FACULTY



Hillary Maitland

University of Virginia, Charlottesville,
VA, USA



Hanny Al-Samkari

Massachusetts General Hospital & Harvard
Medical School, Boston MA, USA



Waleed Ghanima

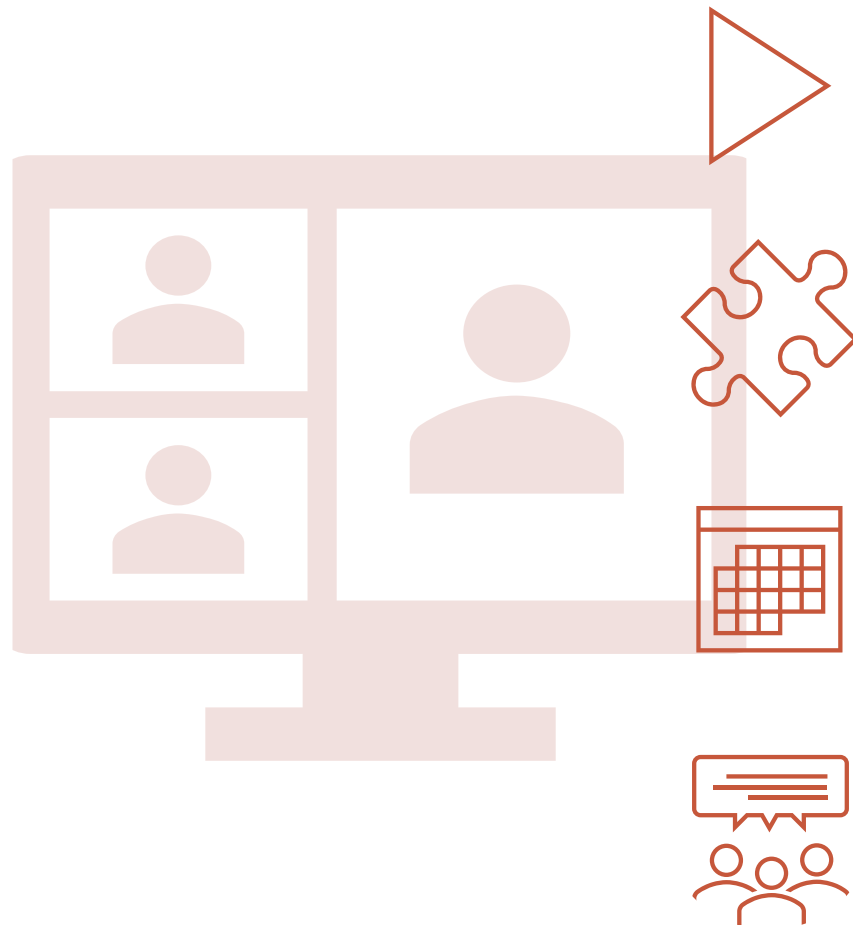
Østfold Hospital & University of Oslo,
Norway



Understand the role of TPO-RAs in the treatment of chronic ITP in adults

Review all practical considerations, including:

- When to start treatment
- Administration
- Safety
- Efficacy and how to monitor it
- Adjusting treatment
- Long-term remission and tapering



Initiation of treatment for ITP

Hillary Maitland

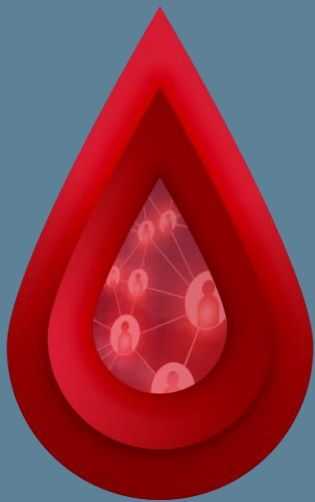
Practical considerations around choosing a TPO-RA

Hanny Al-Samkari

Long-term use of a TPO-RA: safety and disease remission

Waleed Ghanima

Q&A



INITIATION OF TREATMENT FOR ITP

Hillary Maitland, MD

University of Virginia, Charlottesville, VA, USA

DISCLOSURES

- Grants/honoraria from Sanofi and Sobi

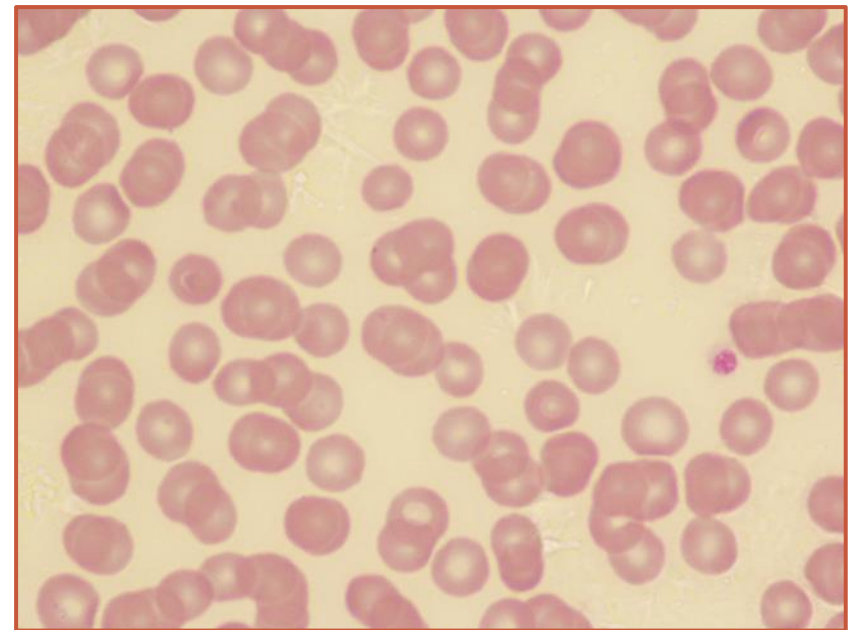
CASE

- Ms. L is a 39-year-old female without significant past medical history who presents to the emergency department with **nose and gingival bleeding**
- She reports that the **bruising** started 4-5 days prior
- Then she began to have **nose bleeds and gum bleeding**
- She has never had similar symptoms in the past

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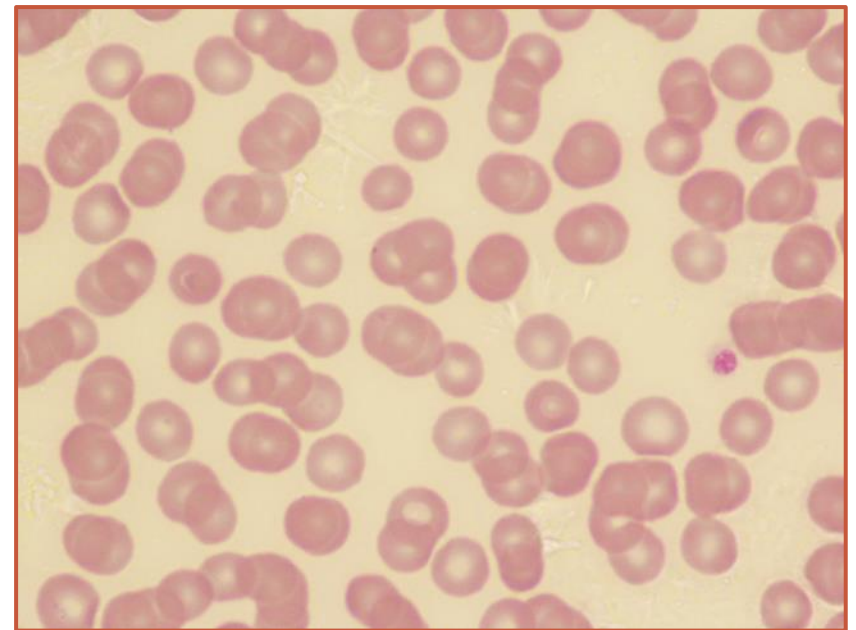
WBC count, $\times 10^9/L$	5.6
Haemoglobin, g/dL	12.4
Platelet count, $\times 10^9/L$	26



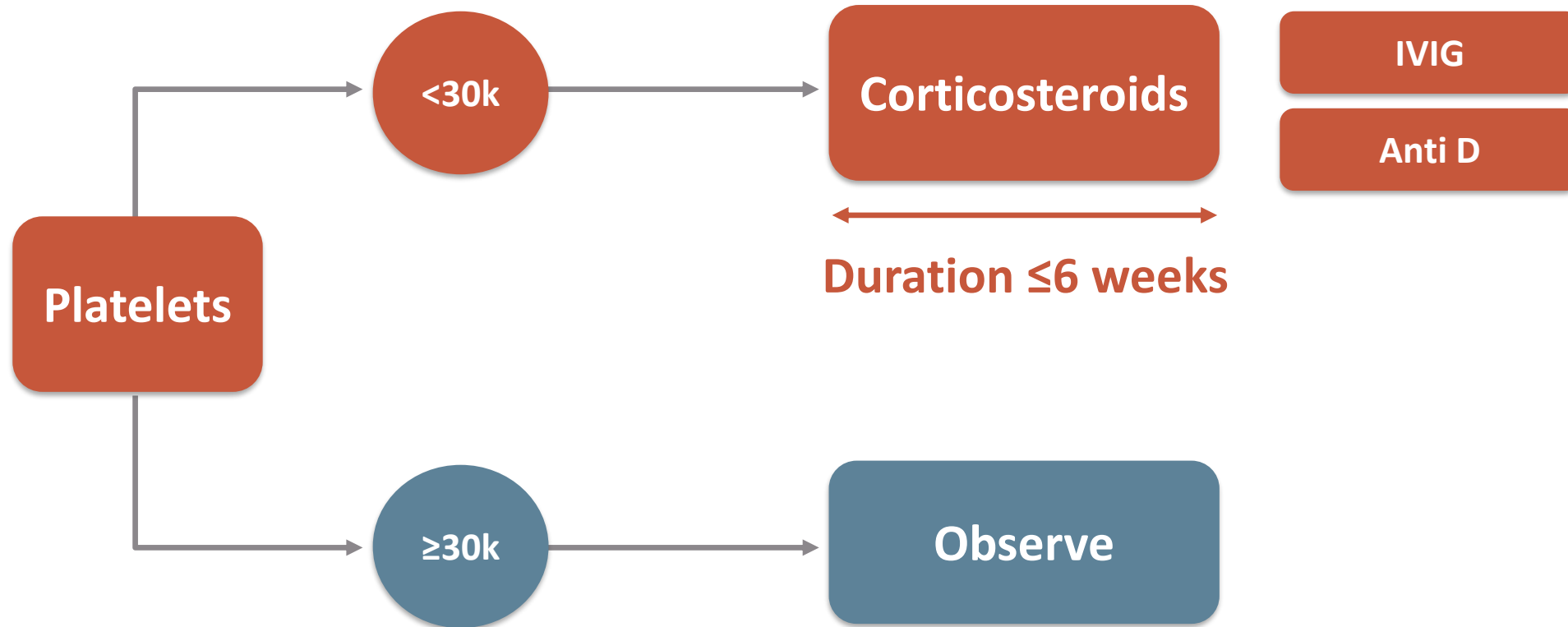
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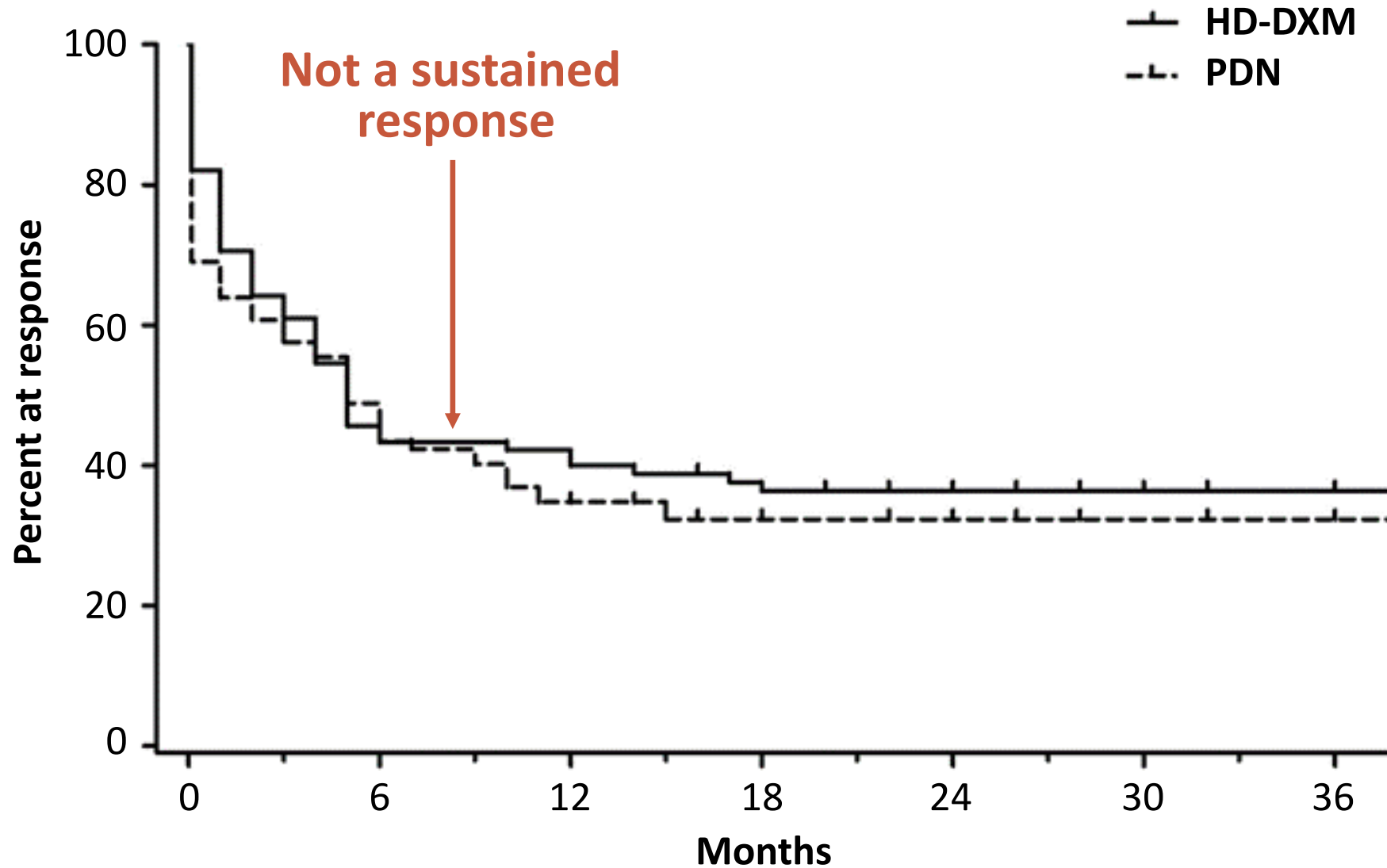
WBC count, $\times 10^9/L$	5.6
Haemoglobin, g/dL	12.4
Platelet count, $\times 10^9/L$	26
TSH	normal limits
Hepatitis B/C, HIV	negative

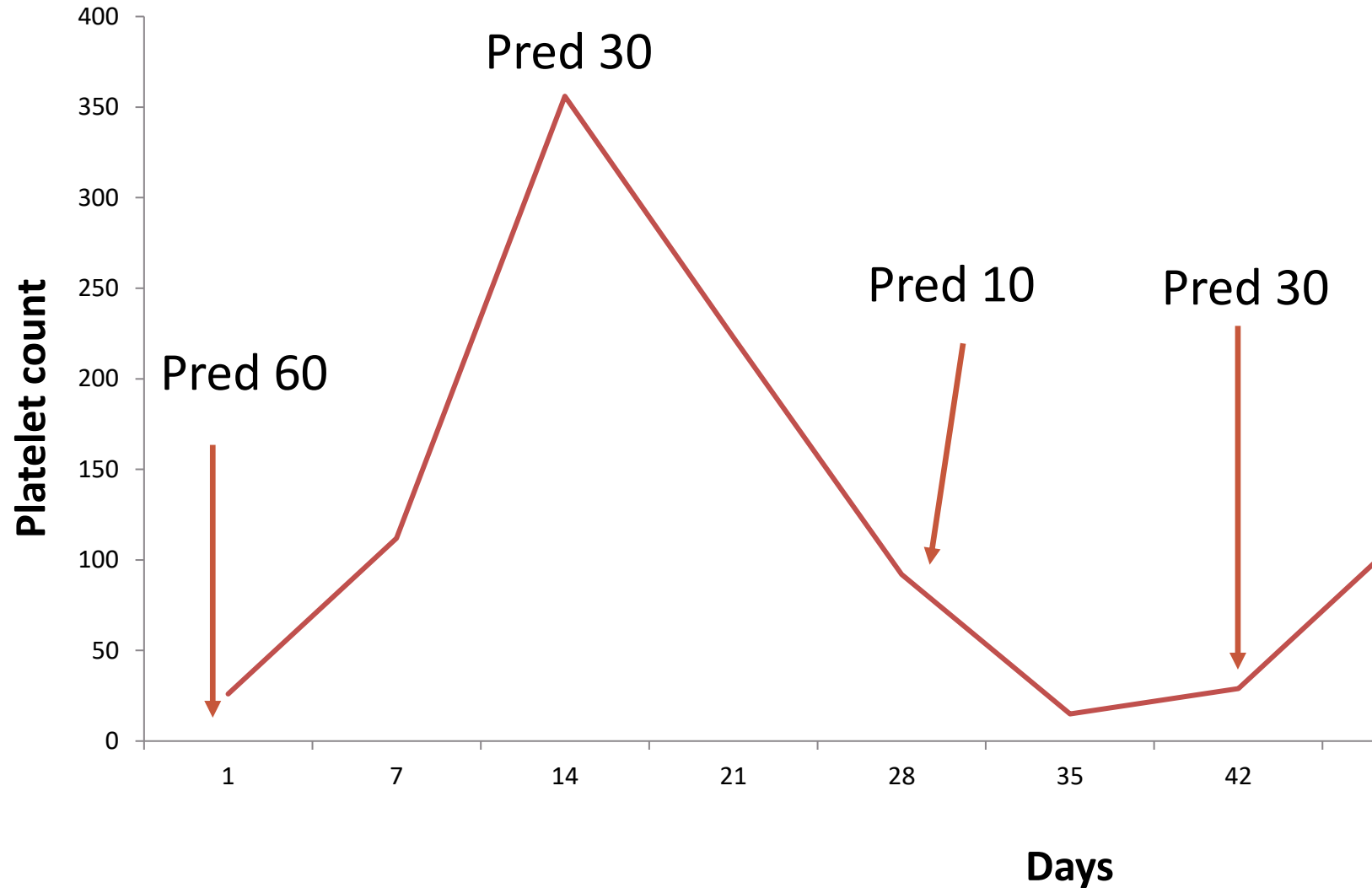


INITIAL TREATMENT OF ITP

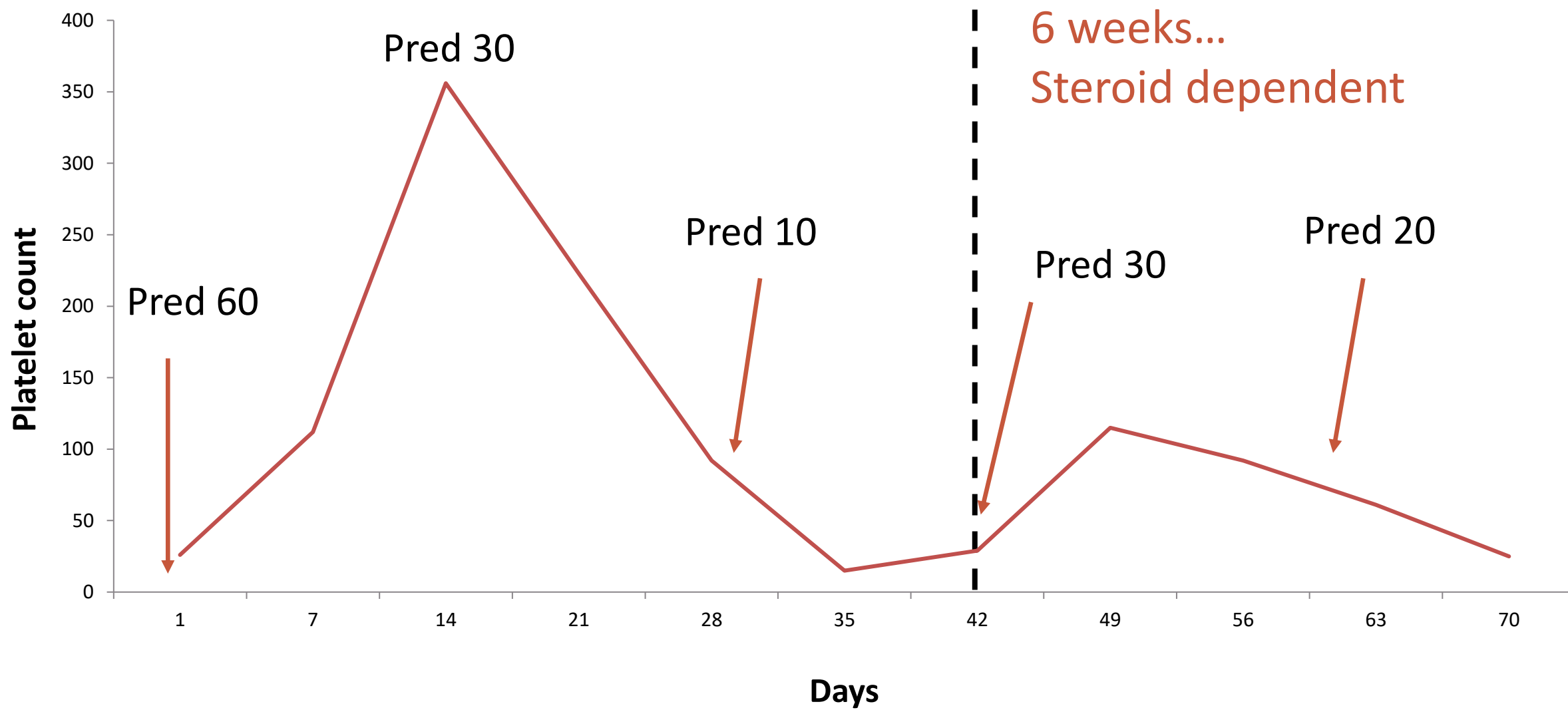


DEXAMETHASONE OR PREDNISONE?



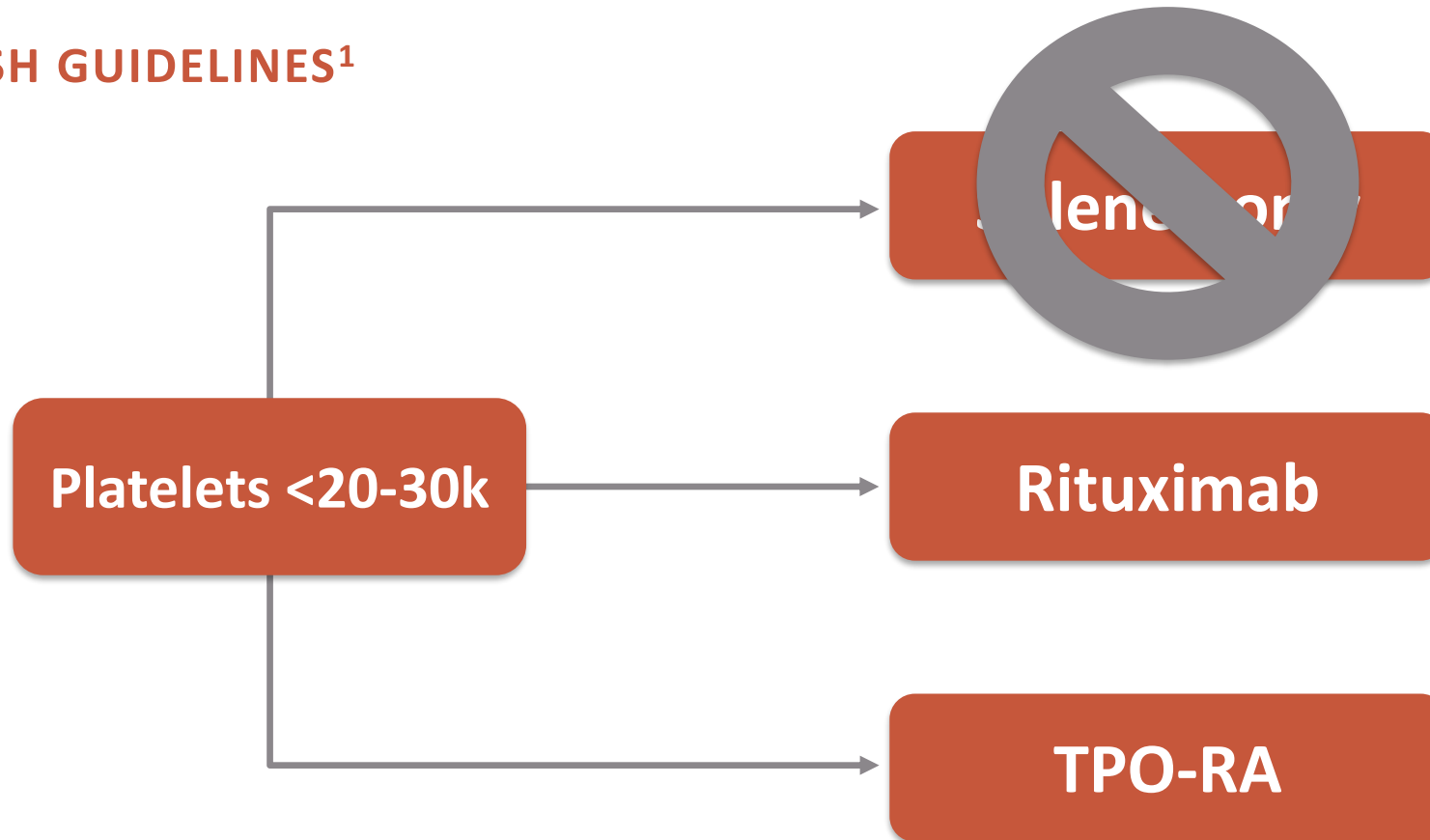


- Start 1 mg/kg prednisone
- Platelets normalise so we start a slow taper



SECOND-LINE THERAPY

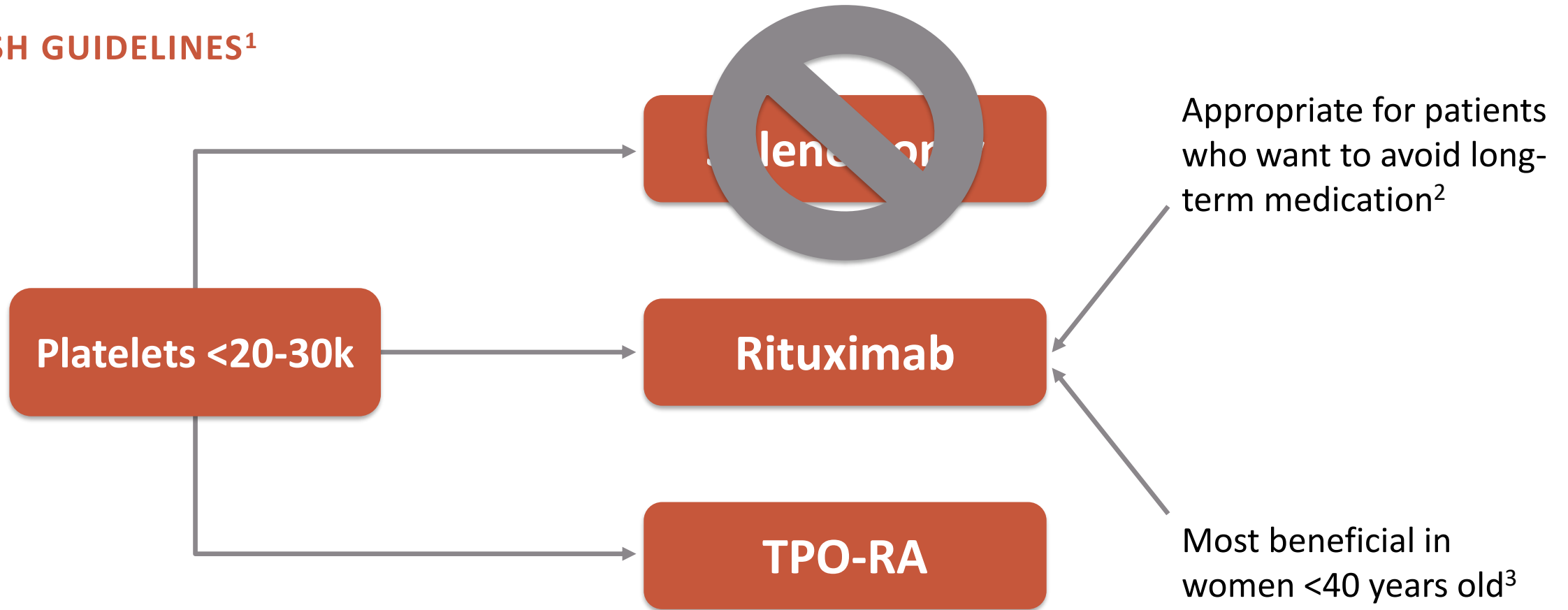
ASH GUIDELINES¹

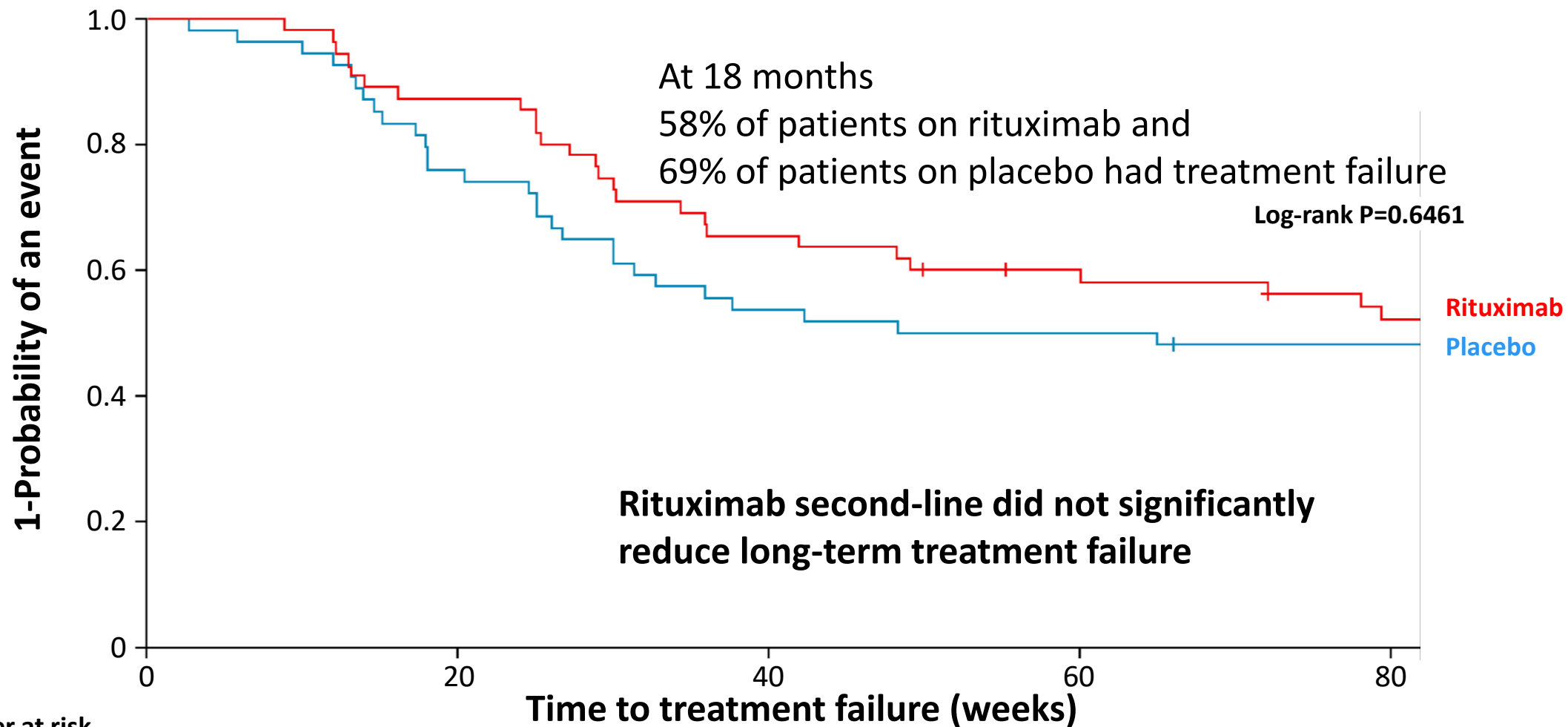


No splenectomy until
at least 1 year out

SECOND-LINE THERAPY

ASH GUIDELINES¹

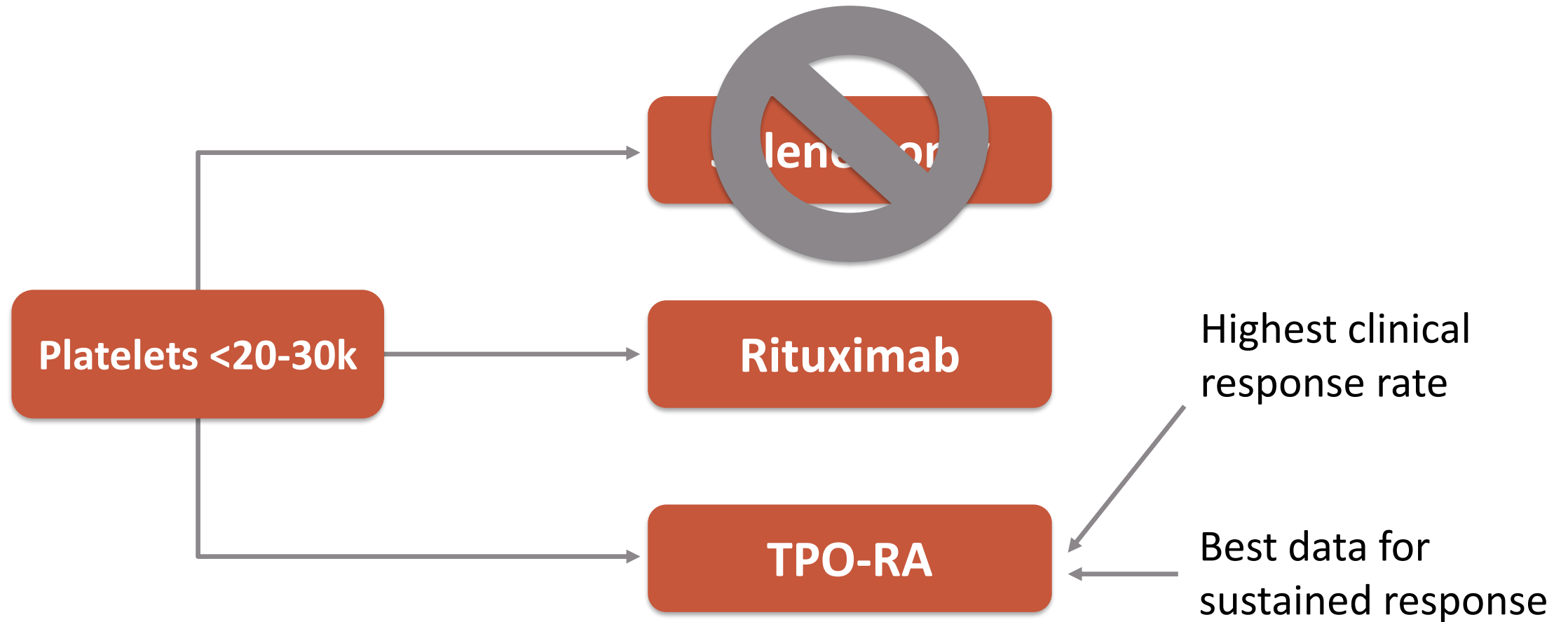




Number at risk

	0	20	40	60	80									
Placebo	54	52	51	43	40	35	30	29	28	27	27	26	25	25
Rituximab	55	55	54	48	48	41	37	35	35	32	31	30	30	28

SECOND-LINE THERAPY



TPO-RA, thrombopoietin receptor agonist

Neunert C, et al. Blood Adv. 2019;3(23):3829-66; Marangon M, et al. Eur J Haematol. 2017;98:371-77; Cooper N, et al. N Engl J Med. 2019;381:945-55

THROMBOPOIETIN RECEPTOR AGONISTS

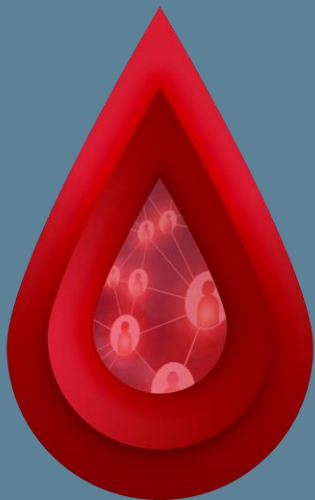
	Pro	Con
Romiplostim	Cost (+/-) ↑ Monitoring	Subcutaneous injection Platelet variability
Eltrombopag	Oral ↓ Bleeding	Food restriction Hepatotoxicity
Avatrombopag	Oral No food-type restriction	Headache Newer drug

THROMBOPOIETIN RECEPTOR AGONISTS

	Starting Dose	Titration	Max/Min dose
Romiplostim	1 µg/kg/week (label) 3 µg/kg/week (realistic) 5 µg/kg/week (severe)	Adjust 1 µg/kg weekly	10 µg/kg/week 1 µg/kg/week
Eltrombopag	50 mg daily 25 mg daily (Asian patients)	Assess CBC weekly and LFTs every 2 weeks, adjust by 25 mg Consider intermittent dosing	75 mg/day (150 mg approved for AA) 12.5 mg/day
Avatrombopag	20 mg daily	Assess CBC weekly, adjust by 20 mg	40 mg/day 20 mg/week

AA, aplastic anaemia; CBC, complete blood count; LFT, liver function test

Al-Samkari H, et al. Ther Adv Hematol. 2019;10:2040620719841735; Nplate (romiplostim) prescribing information; Promacta (eltrombopag) prescribing information; Doptelet (avatrombopag) prescribing information



PRACTICAL CONSIDERATIONS AROUND CHOOSING A TPO-RA

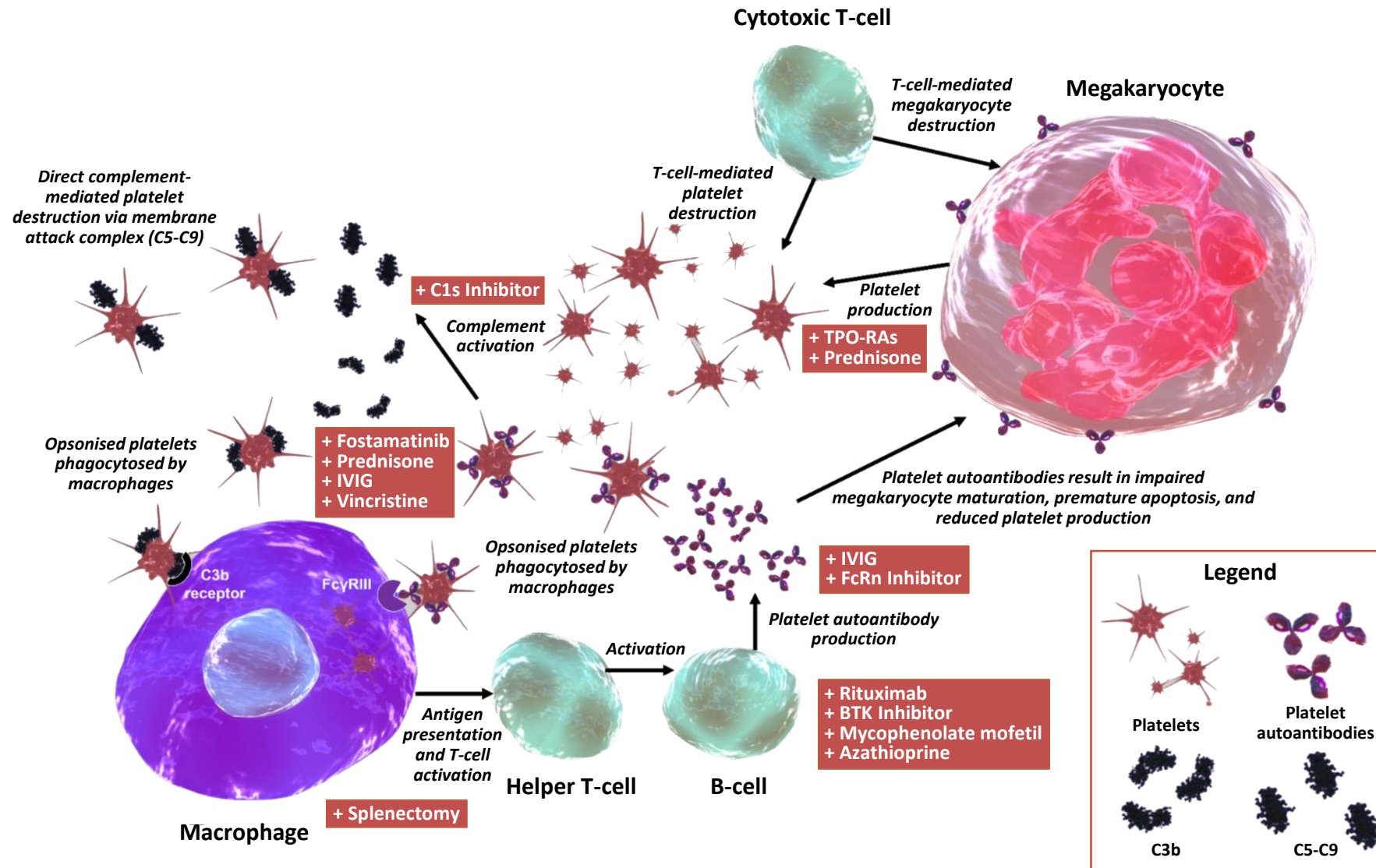
Hanny Al-Samkari, MD

**Massachusetts General Hospital & Harvard Medical School,
Boston, MA, USA**

DISCLOSURES

- Grants/honoraria from Agios, Amgen, Argenx, Dova, Rigel, Novartis and Sobi

MECHANISM OF ACTION OF ITP THERAPIES



THE THROMBOPOIETIN RECEPTOR AGONISTS (TPO-RA)

	Romiplostim	Eltrombopag	Avatrombopag	Lusutrombopag
Molecular structure	Peptide	Small molecule	Small molecule	Small molecule
TPO receptor site of action	Extracellular domain	Transmembrane domain	Transmembrane domain	Transmembrane domain
Route of administration	Subcutaneous	Oral	Oral	Oral
Dosing frequency ^a	Weekly	Daily	Daily	Daily
Relevant food interactions	N/A	Yes	No	No
Current indications	<ul style="list-style-type: none"> • ITP (adults and children) 	<ul style="list-style-type: none"> • ITP (adults and children) • Hepatitis C-associated thrombocytopenia • Severe aplastic anaemia 	<ul style="list-style-type: none"> • ITP (adults) • Periprocedural thrombocytopenia in CLD patients 	<ul style="list-style-type: none"> • Periprocedural thrombocytopenia in CLD patients

^aPer drug label

RANDOMISED TRIALS EVALUATING TPO-RAs IN ADULT ITP

Study	Treatment (N)	Location	Study population	Major results (compared with placebo/standard of care)
Bussel	Eltrombopag N=76 Placebo N=38	Worldwide (63 sites)	ITP for ≥6 months; plt <30 × 10 ⁹ /L 36% splenectomised	Significantly higher rate of platelet response ^a Significantly less bleeding
Cheng	Eltrombopag N=135 Placebo N=62	Worldwide (75 sites)	ITP for ≥6 months; plt <30 × 10 ⁹ /L 39% splenectomised	Significantly higher rate of platelet response ^a Reduced use of concomitant ITP medications Reduced need for rescue therapy
Tomiyama	Eltrombopag N=15 Placebo N=8	Japan	ITP for ≥6 months; plt <30 × 10 ⁹ /L 70% splenectomised	Significantly higher rate of platelet response ^a Significantly less bleeding Lower doses of eltrombopag effective in Japanese patients
Yang	Eltrombopag N=104 Placebo N=51	China	ITP for ≥12 months; plt <30 × 10 ⁹ /L 16% splenectomised	Significantly higher rate of platelet response ^a
Kuter	Romiplostim N=83 Placebo N=42 (2 parallel studies)	US and Europe	ITP for ≥12 months; plt <30 × 10 ⁹ /L 50% splenectomised	Significantly higher rate of platelet response ^a Reduced use of concomitant ITP medications
Kuter	Romiplostim N=157 Standard of care N=77	North America, Europe and Australia	ITP for ≥12 months; plt <50 × 10 ⁹ /L 0% splenectomised	Significantly higher rate of platelet response ^a Reduced use of concomitant ITP medications Lower rate of treatment failure Lower rate of splenectomy Significantly less bleeding and transfusions Significantly improved quality of life
Shirasugi	Romiplostim N=22 Placebo N=12	Japan	ITP for ≥6 months; plt ≤30 × 10 ⁹ /L 44% splenectomised	Significantly higher rate of platelet response ^a Reduced need for rescue therapy
Jurczak	Avatrombopag N=32 Placebo N=17	Europe, Asia, Africa and Australia	ITP for ≥12 months; plt <30 × 10 ⁹ /L 33% splenectomised	Significantly higher cumulative weeks of platelet response ^a Reduced use of concomitant ITP medications (not significant; small number of patients)

^a Platelet response defined as a platelet count ≥50 × 10⁹/L at a given assessment on treatment with TPO-RA or placebo

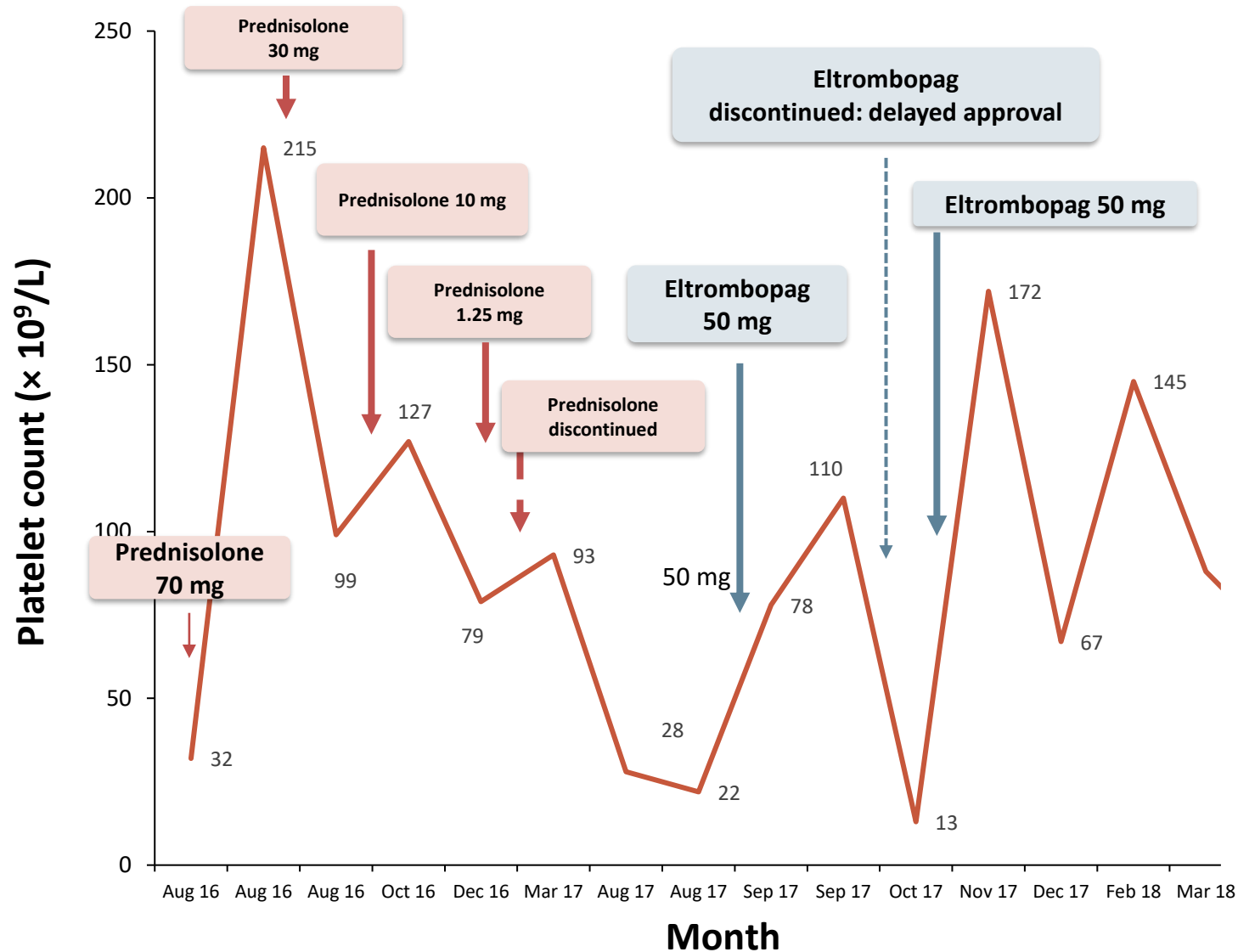
ITP, immune thrombocytopenia; Plt, platelets; TPO-RA, thrombopoietin receptor agonist

Al-Samkari H, et al. Ther Adv Hematol. 2019;10:2040620719841735

CONSIDERATIONS FOR USE OF TPO-RA IN ITP

- **May be used after any disease duration** but typically at least second line
- Response rates and AE profiles **similar in ITP <1 year and ITP >1 year**
- Decision primarily **TPO-RA vs. immunosuppressant**
 - TPO-RAs have higher response rates
 - TPO-RAs may have higher thrombotic risk
 - Immunosuppressants increase infection risks (which can cause an ITP exacerbation)
- **Administration**
 - Daily oral
 - Weekly subcutaneous
 - 2 to 4 infusions of rituximab
- Avoid eltrombopag in patients with **liver disease** (hepatotoxicity, portal vein thrombosis)

Platelet count after remission



- Patient treated with rituximab initially, with effect
- However, relapse occurred 11 months later
- Eltrombopag was selected as the next treatment option
 - After initial retreatment with prednisone (current guidelines recommend against retreating with steroids)

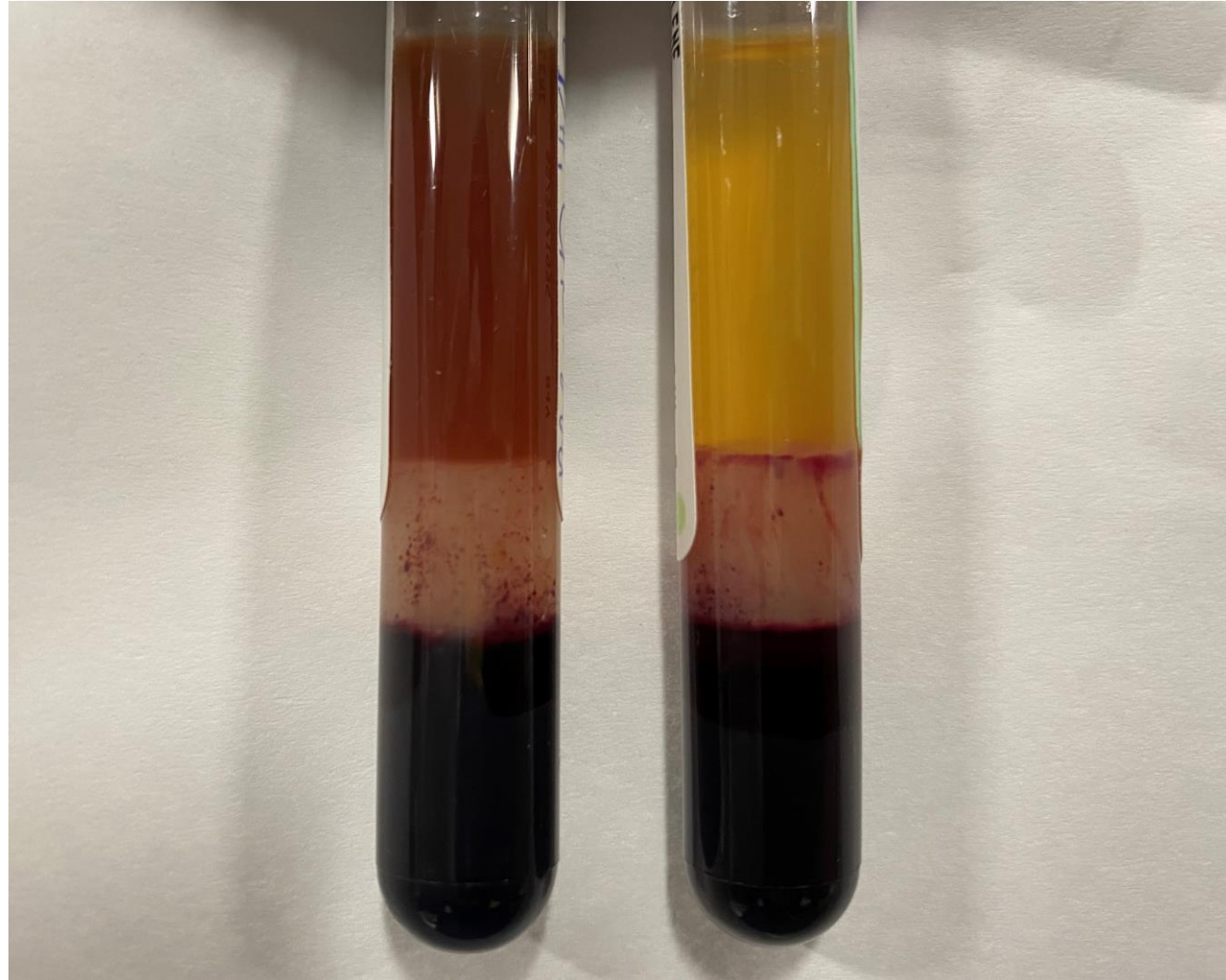
Romiplostim

- **Label says start 1 µg/kg/week, increase by 1 µg/kg/week**
 - In my experience, this is too low, too slow for most patients
- **What I do in clinical practice:**
 - I start at 3 µg/kg/week (5 µg if severely thrombocytopenic) and do not hesitate to titrate by ≥ 2 µg/kg/week
 - I start at 10 µg/kg/week for clinical emergency
 - I *do not hold doses for thrombocytosis* unless Plt > 1 million; leads to less volatility

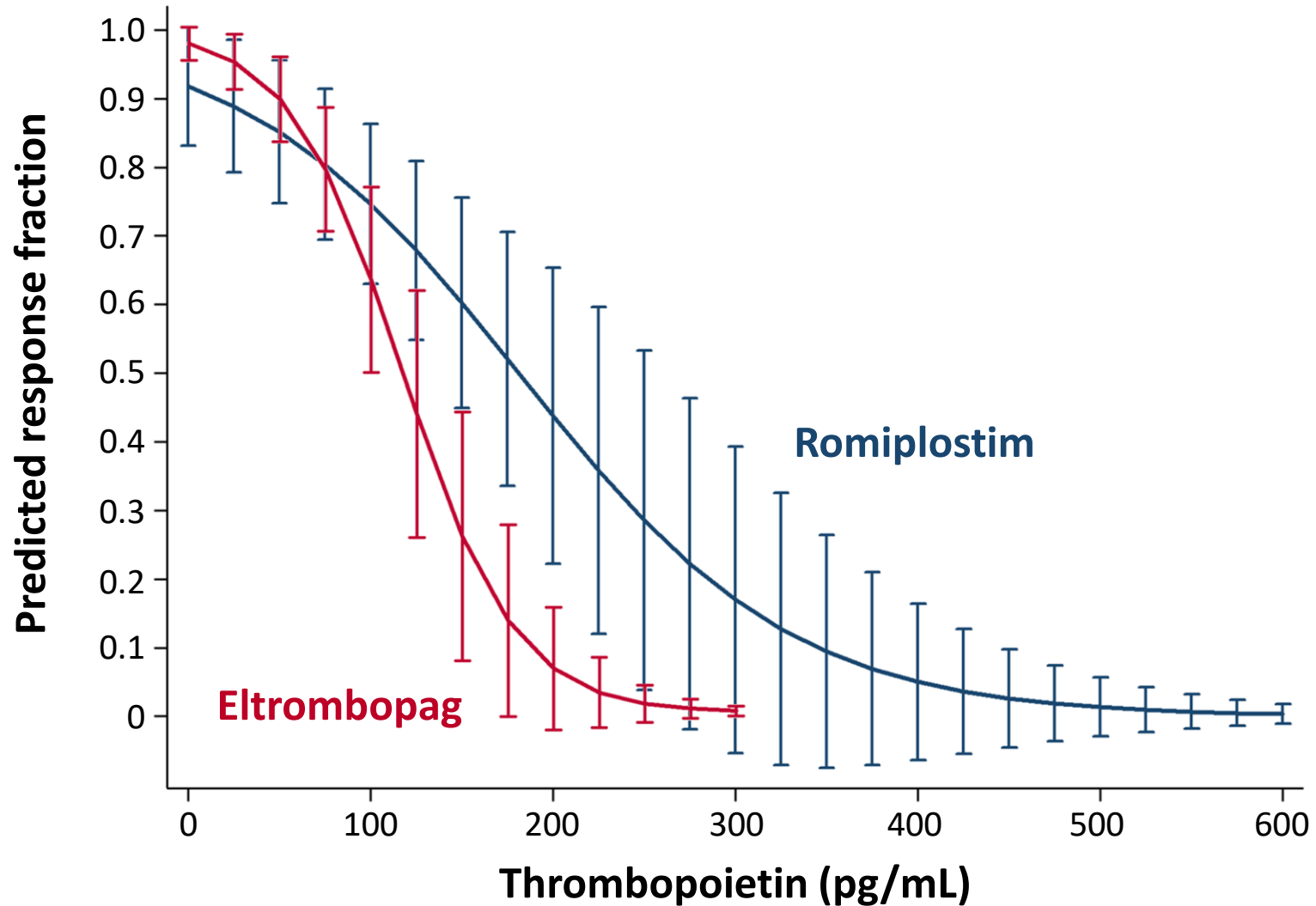
Eltrombopag

- Start 50 mg/day in all except East Asian descent, CLD, children 1-5 years who get 25 mg/day
- Technically 75 mg/day is max ITP dose, but in my experience, you can go higher (though scant evidence)
- Beware of plasma, skin, sclera changes with high dose; can interfere with bilirubin measurement
- Must monitor LFTs; consider iron chelation

REDDISH-BROWN DISCOLOURATION FROM ELTROMBOPAG



ENDOGENOUS TPO LEVEL MAY BE HELPFUL IN PREDICTING RESPONSE

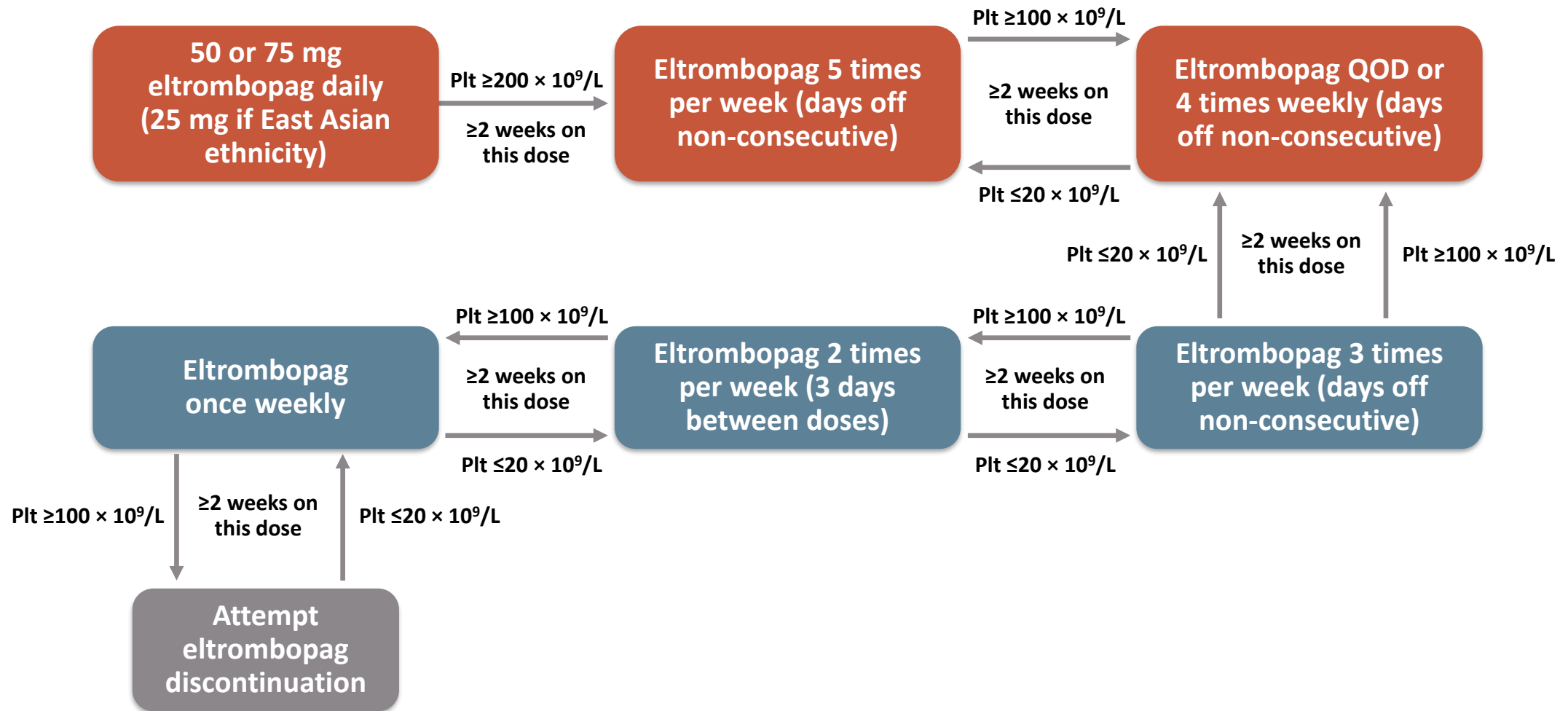


Avatrombopag dose levels for titration in patients with chronic ITP

Dose	Dose Level
40 mg once daily	6
40 mg three times a week <i>AND</i> 20 mg on the four remaining days of each week	5
20 mg once daily*	4
20 mg three times a week	3
20 mg twice a week <i>OR</i> 40 mg once weekly	2
20 mg once weekly	1

* Initial dose regimen for all patients *except* those taking moderate or strong dual inducers or moderate or strong dual inhibitors of CYP2C9 or CYP3A4

ALTERNATIVE INTERMITTENT ELTROMBOPAG DOSING IN ITP



ORAL TPO-RAs: ABSORPTION DIFFERENCES

- **Eltrombopag** absorption severely impacted by consumption of fat or polyvalent cations (i.e. Ca²⁺, Mg²⁺, etc)
 - Reduces absorption of eltrombopag by >50%
 - Essentially requires a **4-hour fasted window around administration** (or 6 hours if 50 mg Ca²⁺ is consumed, present in a single serving of many dairy, grain, and vegetable products)
- **Avatrombopag** is taken **with food**, absorption is optimised when taken with food
- Given that patients frequently take TPO-RAs for years, this is **not a trivial issue** and initial dietary compliance not infrequently gives way over time

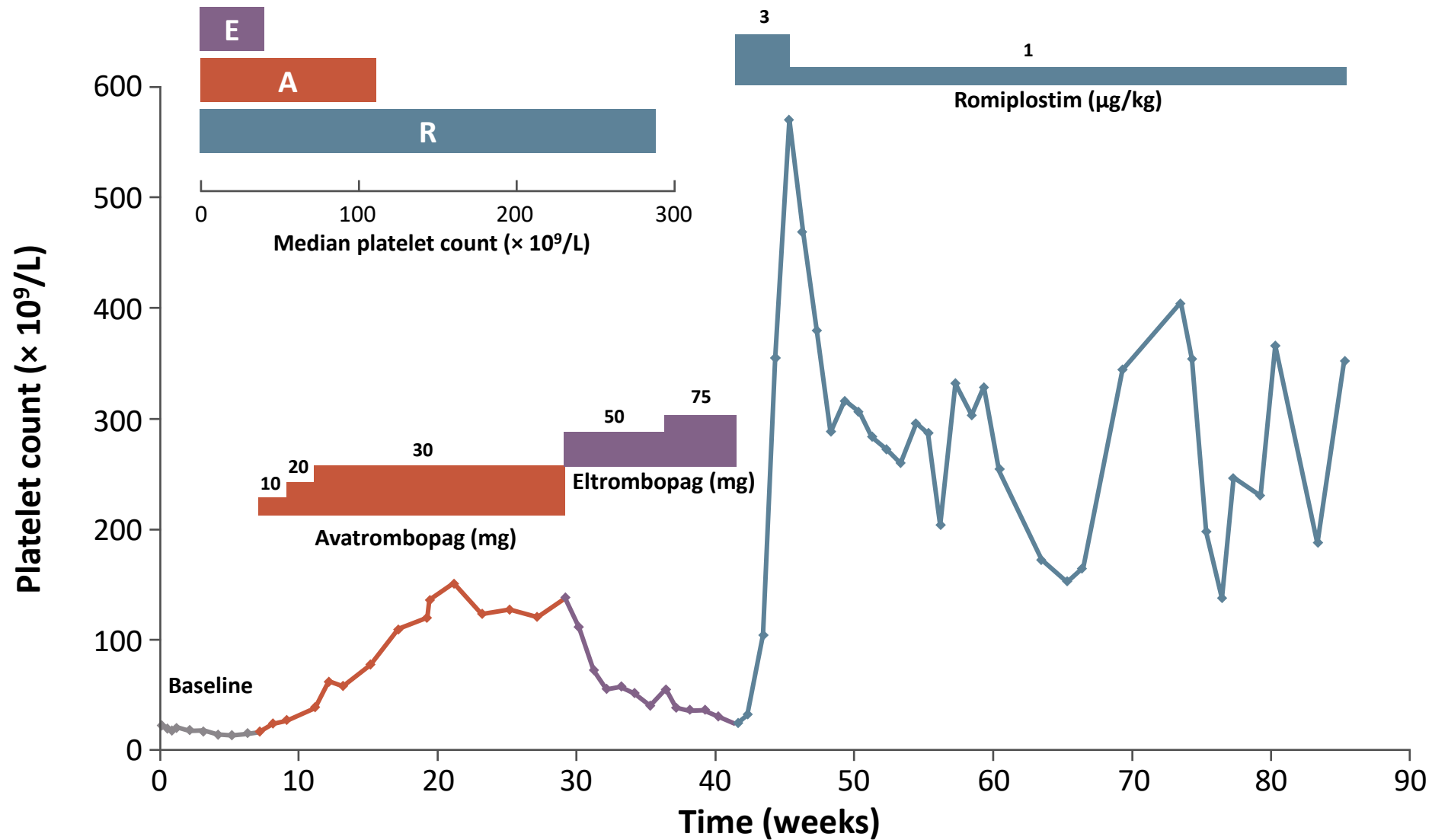
SWITCHING BETWEEN ROMIPILOSTIM AND ELTROMBOPAG

Publications reporting outcomes in patients with ITP who switched their TPO-RA therapy

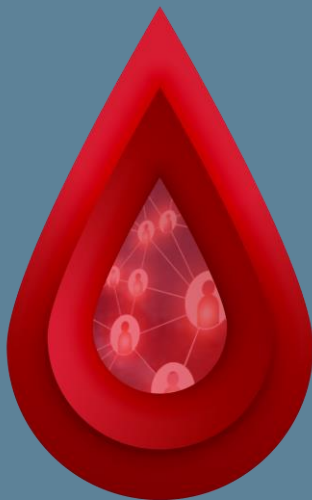
Study	Number of patients			Response rate after switching (%)		
	Romiplostim →eltrombopag	Eltrombopag →romiplostim	Total	Romiplostim →eltrombopag	Eltrombopag →romiplostim	Total
Gonzalez et al.	17	4	21	77	75	76
Lakhwani et al.	17	9	26	94	78	88
Cantoni et al.	59	47	106	–	–	65
Depre et al.	8	28	36	63	71	69
Gonzalez-Porras et al.	51	–	51	80	–	80
Mazza et al.	7	2	9	57	100	67
Mori et al.	–	1	1	–	100	100
Kuter et al.	44	42	86	–	–	–
Sartori et al.	1	–	1	100	–	100
Scaramucci et al.	1	2	3	100	50	67
Khellaf et al.	35	11	46	66	80	70
Meyer et al.	–	2	2	–	100	100
Nakazato et al.	–	1	1	–	100	100
Piccin et al.	–	1	1	–	100	100
Polverelli et al.	1	1	2	100	100	100
D'Arena et al.	2	–	2	100	–	100
Aoki et al.	–	1	1	–	100	100
Tsukamoto et al.	–	6	6	–	100	100
Total	243	158	401	76 (107/140)*	80 (55/69)*	78 (162/209)*

* Overall response rates were not specified Kuter et al. and available only as a combined percentage in Cantoni et. al. These values were not included in the total calculation

64-YEAR-OLD WOMAN TREATED SEQUENTIALLY WITH 3 TPO-RAs



A, avatrombopag; E, eltrombopag; R, romiplostim; TPO-RA, thrombopoietin receptor agonist
Al-Samkari H, et al. Br J Haematol. 2018;183(2):168



LONG-TERM USE OF A TPO-RA: SAFETY AND DISEASE REMISSION

Waleed Ghanima, MD, PhD
Østfold Hospital and University of Oslo, Norway

DISCLOSURES

- Grants from Bayer, Pfizer/BMS
- Ad board/honoraria from Amgen, MSD, Novartis, Bayer, Pfizer, Principia, Sanofi and Sobi, UCB

WHAT SIDE EFFECTS MAY WE EXPECT IN PATIENTS ON TPO-RA?

GENERAL SIDE EFFECTS

- Reported in >5% of patients¹⁻⁵
 - Headache (8-37%)
 - Upper respiratory tract infection/nasopharyngitis (7-19%)
 - GI symptoms
 - Arthralgia
 - Myalgia
- These adverse events were also reported in placebo arms
- Difference in time-adjusted rates

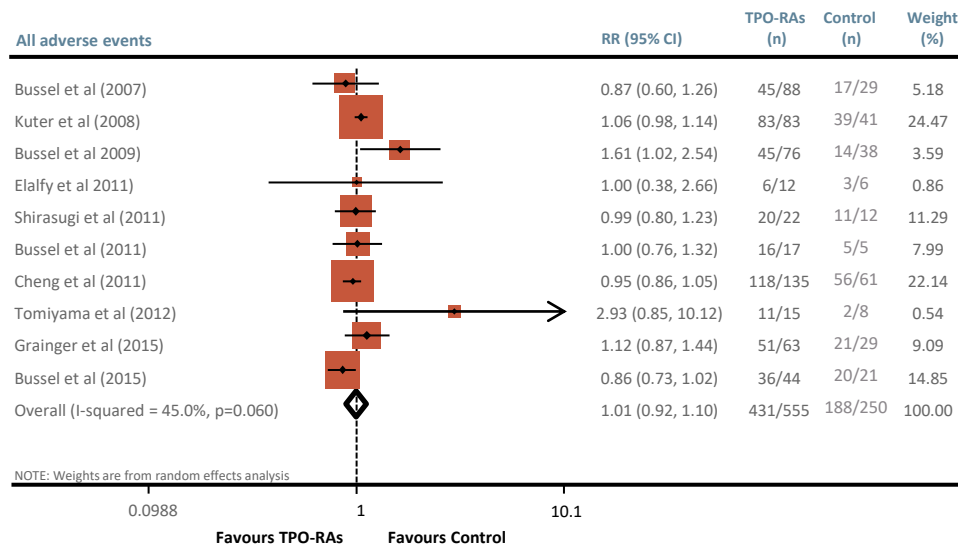
GI, gastrointestinal

1. Bussel J, et al. N Engl J Med. 2006;355:1672-81; 2. Kuter D, et al. Lancet. 2008;371:395-403; 3. Bussel J, et al. Lancet. 2009;377:641-8; 4. Cheng G, et al. Lancet. 2011;377:393-402; 5. Jurczak W, et al. Br J Haematol. 2018;183:479-90

META-ANALYSIS: AE PROFILES ARE SIMILAR BETWEEN TPO-RAs AND CONTROL REGIMENS

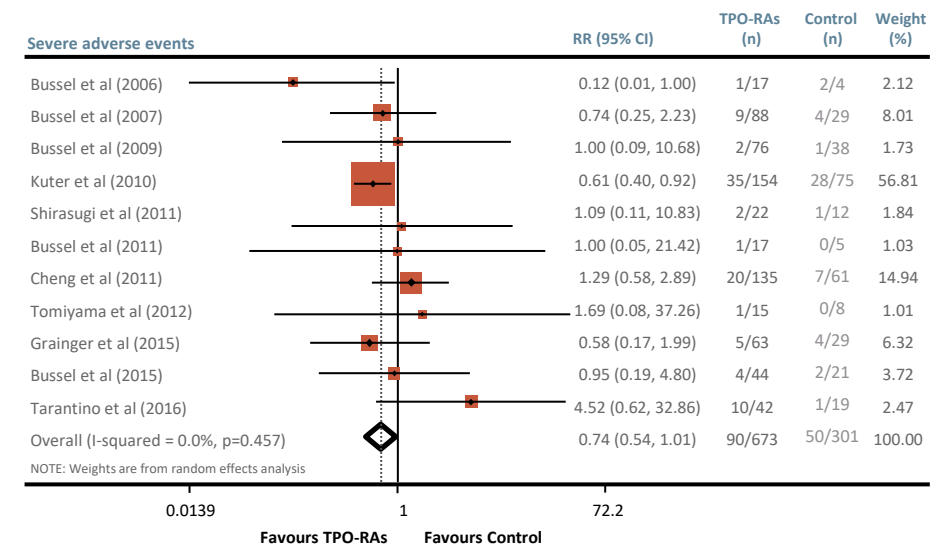
Adverse events

AEs were similar between the TPO-RA and control regimens
(RR: 1.01, 95% CI: 0.92-1.10, p=0.913)



Severe adverse events

The rates of severe AEs tended to be lower in the TPO-RA groups than in the control groups
(RR: 0.74, 95% CI: 0.54-1.01, p=0.054)

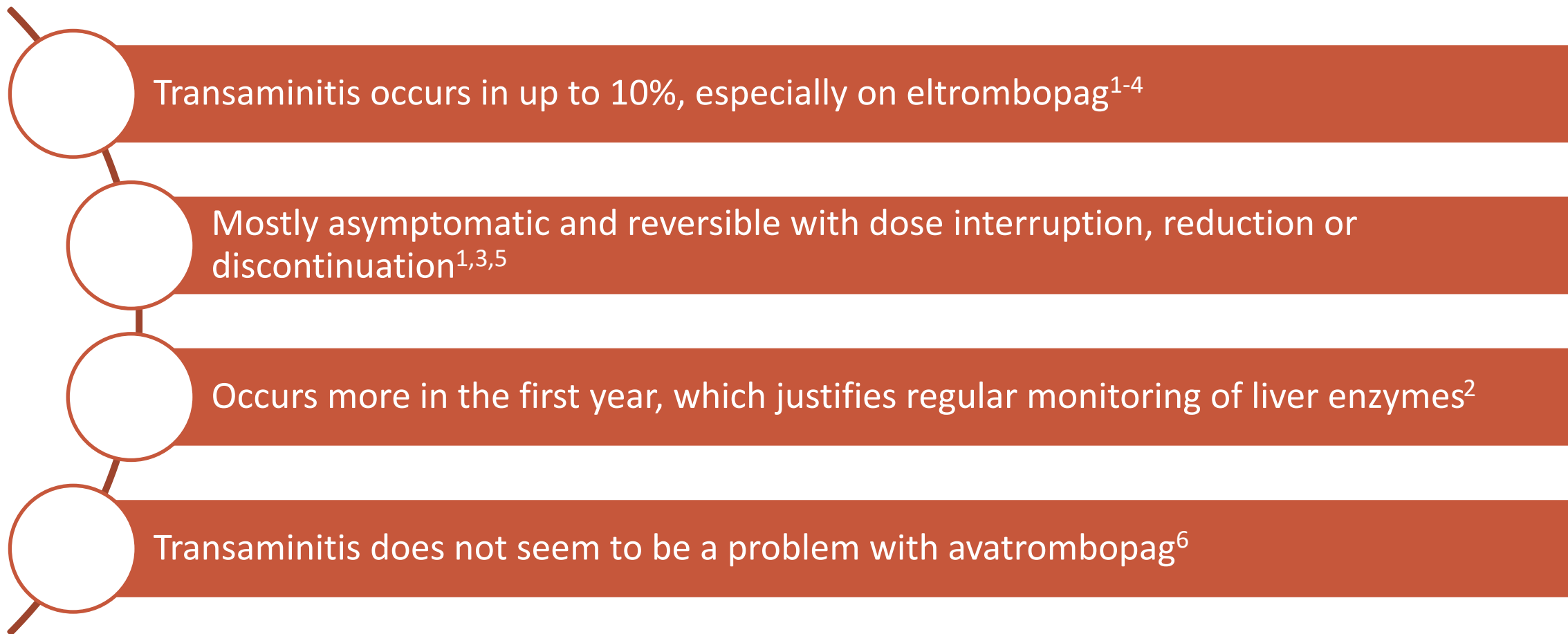


MORE SERIOUS SIDE EFFECTS OCCASIONALLY ENCOUNTERED IN PATIENTS TREATED WITH TPO-RAs

Transaminitis (eltrombopag)

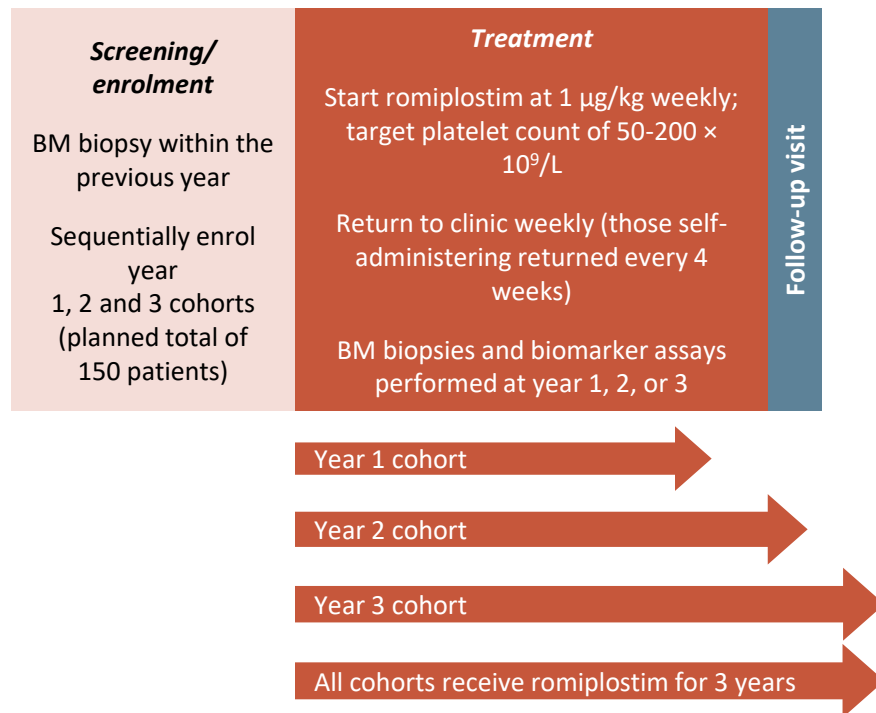
Bone marrow fibrosis

Thromboembolism



IN PATIENTS WITH ITP RECEIVING ROMIPILOSTIM, BONE MARROW CHANGES WERE OBSERVED IN A SMALL PROPORTION OF PATIENTS

Phase 4, prospective, open-label, multicenter study evaluating changes in bone marrow reticulin and collagen in 169 patients with ITP receiving romiplostim.

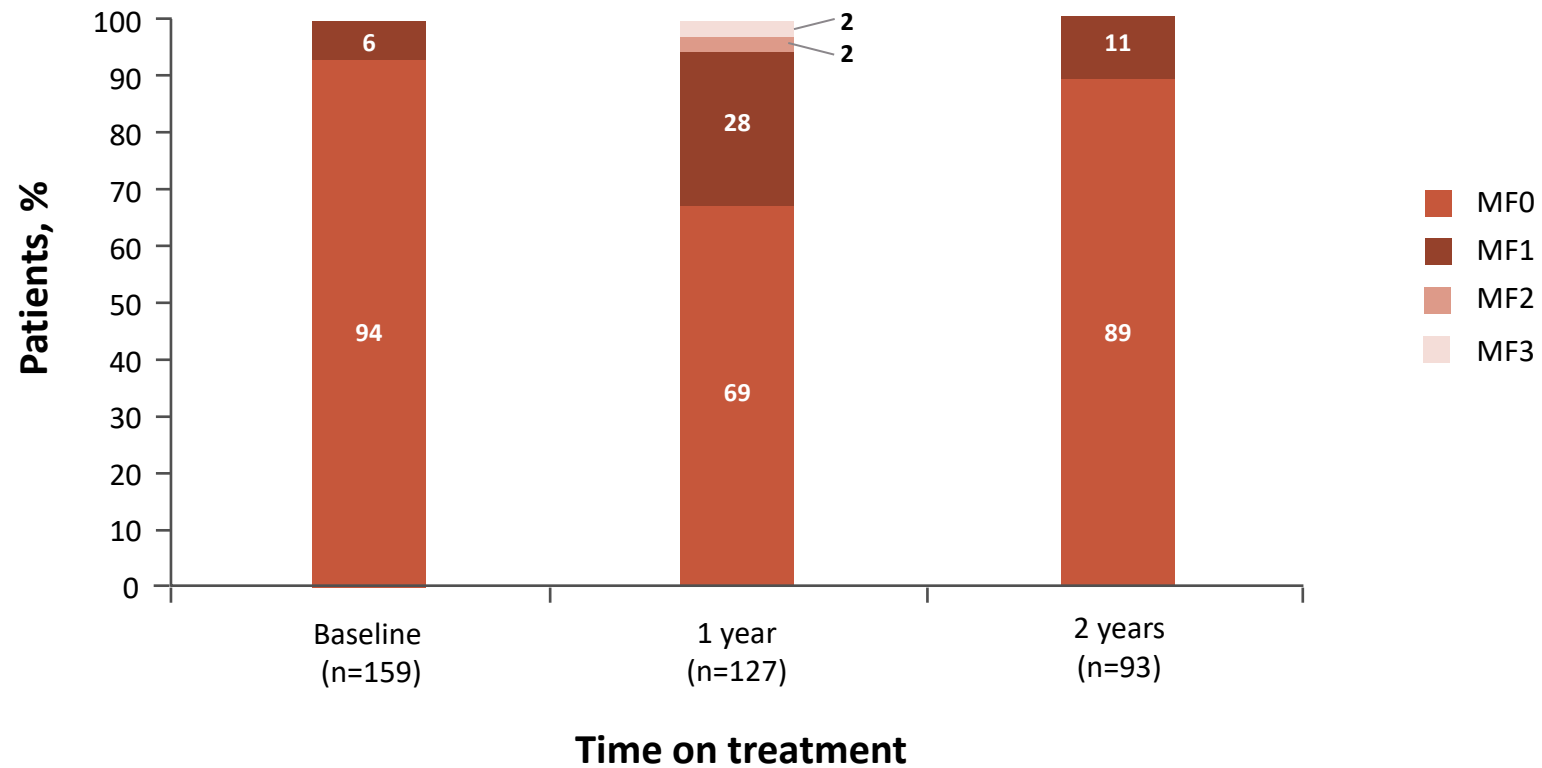


Number of patients with reticulin or collagen present in BM biopsies

By Cohort	Cohort 1 (n=50)	Cohort 2 (n=50)	Cohort 3 (n=69)	Total (N=169)
Bone marrow biopsies after receiving romiplostim	39	40	58	137
Biopsies evaluable for collagen (trichrome stain)	35	39	58	132
Positive for collagen	0	0	2 (3.4%)	2 (1.5%)
Patients with biopsies evaluable for reticulin (silver stain)	34	39	58	131
Increase in reticulin by ≥2 grades excluding collagen	0	2 (5.1%)	5 (8.6%)	7 (5.3%)
By exposure at time of biopsy	1 year	2 years	3 years	Total
Biopsies evaluable for collagen (trichrome stain)	42	38	52	132
Positive for collagen	1 (2.4%)	0	1 (1.9%)	2 (1.5%)
Patients with biopsies evaluable for reticulin (silver stain)	41	38	52	131
Increase in reticulin by ≥2 grades excluding collagen	2 (4.9%)	1 (2.6%)	4 (7.7%)	7 (5.3%)

EFFECTS OF ELTROMBOPAG ON BM RETICULIN FORMATION

Reticulin level at baseline and the 1- and 2-year assessments



- Most patients' **grade of fibrosis did not change or only slightly increased** (MF-1 or Bauermeister <2) during treatment¹
- **Moderate increase in reticulin fibrosis** (≥ 2 grades or \geq MF-2) occurred in <10% of patients²⁻⁴
- In the majority of patients both reticulin and collagen fibrosis **regressed after discontinuation** of TPO-RA^{1,3}
- Usually, **no change** in number or morphology of **peripheral blood cells** is seen^{1,3,5,6}
- There is **no consensus on whether/how to monitor** bone marrow fibrosis
 - No need for regular bone marrow biopsies
 - If biopsy is done: MF-3 → discontinue; MF-2 continue + repeat biopsy

MF, myelofibrosis

1. Ghanima W, et al. Haematologica. 2014;99:937-44; 2. Wong R, et al. Blood. 2017;130:2527-36; 3. Brynes R, et al. Acta Haematol. 2017;137:66-72; 4. Jansens A, et al. Ann Hematol. 2016;95:1077-87; 5. Kim Y, et al. Blood Res. 2015;50:19-25; 6. Boiocchi L, et al. Mod Pathol. 2012;25:65-74

VTE AND AT EVENTS IN ROMIPILOSTIM STUDIES

Study	Duration of follow-up (weeks)	TPO arm n/N (%)	Comparison arm n/N (%)	Remarks
Phase 2 and 3 studies				
Bussel et al. 2006 ¹	6	0/41 (0.0%)	1/4 (25%)	1 DVT
Kuter et al. 2008 ²	24	2/83 (2.4%)	1/42 (2.4%)	1 VTE in each arm
Kuter et al. 2010 ³	52*	6/154 (3.9%)	2/75 (2.7%)	11 events in 6 patients on romiplostim and 2 in SOC (P=0.07)
Long-term follow-up studies				
Kuter et al. 2013 ⁴	110 [#]	19/291 (6.5%)		16 ATE (0.04/100 p.w.) 9 VTE (0.03/100 p.w.)
Steurer et al. 2016 ⁵	102 ^{**}	7/340 (2.0%)		10 thrombotic events

* 52-week long study and follow-up period of 6 months for patients who did not enter another romiplostim study;

Mean duration of treatment

** Duration of exposure

AT(E), arterial thromboembolism; DVT, deep vein thrombosis; p.w., patient-weeks; SOC, standard of care; TPO, thrombopoietin; VTE, venous thromboembolism

1. Bussel J, et al. N Engl J Med. 2006;355:1672-81; 2. Kuter D, et al. Lancet. 2008;371:395-403; 3. Kuter D, et al. N Engl J Med. 2010;363:1889-99; 4. Kuter D, et al. Br J Haematol. 2013;161:411-23; 5. Steurer M, et al. Eur J Haematol. 2017;98:112-20

VTE AND AT EVENTS IN ELTROMBOPAG STUDIES

Study	Duration of follow-up (weeks)	TPO-RA arm n/N (%)	Comparison arm n/N (%)	Remarks
Phase 2 and 3 studies				
Bussel et al. 2007 ¹	6	0/88 (0.0%)	0/29 (0.0%)	
Bussel et al. 2009 ²	6	0/76 (0.0%)	0/38 (0.0%)	
Cheng et al. 2011 ³	26	3/135 (2.2%)	0/62 (0.0%)	3 VTE
Long-term follow-up studies				
Bussel et al. 2013 ⁴	–	0/65 (0.0%)		
Wong et al. 2017 ⁵	123*	19/302 (6.3%)		24 events; 10 VTE (2.69/100 patient years)

* Median duration

AT, arterial thromboembolism; TPO-RA, thrombopoietin receptor antagonist; VTE, venous thromboembolism

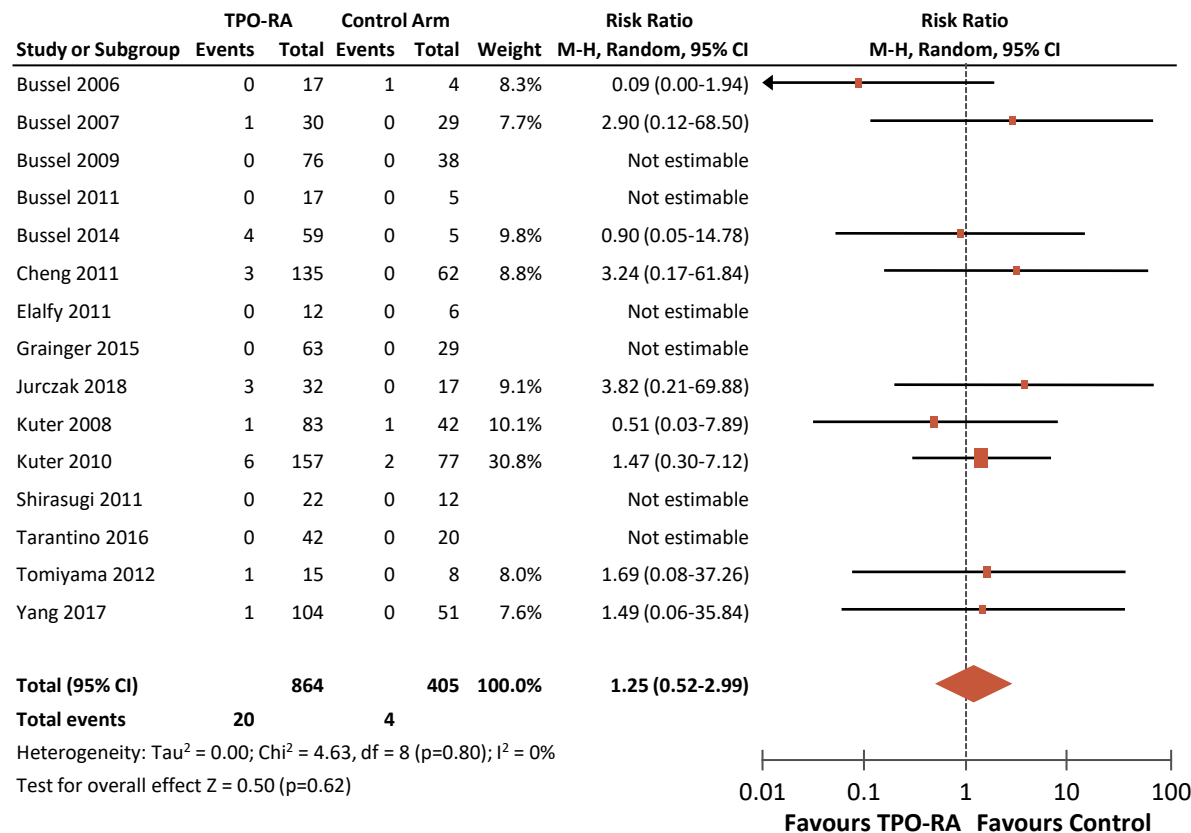
1. Bussel J, et al. N Engl J Med. 2007;357:2237-47; 2. Bussel J, et al. Lancet. 2009;373:641-8; 3. Cheng G, et al. Lancet. 2011;377:393-402; 4. Bussel J, et al. Br J Haematol. 2013;160:538-46; 5. Wong RSM, et al. Blood. 2017; 130(23):2527-36

VTE AND AT EVENTS IN THE AVATROMBOPAG STUDY

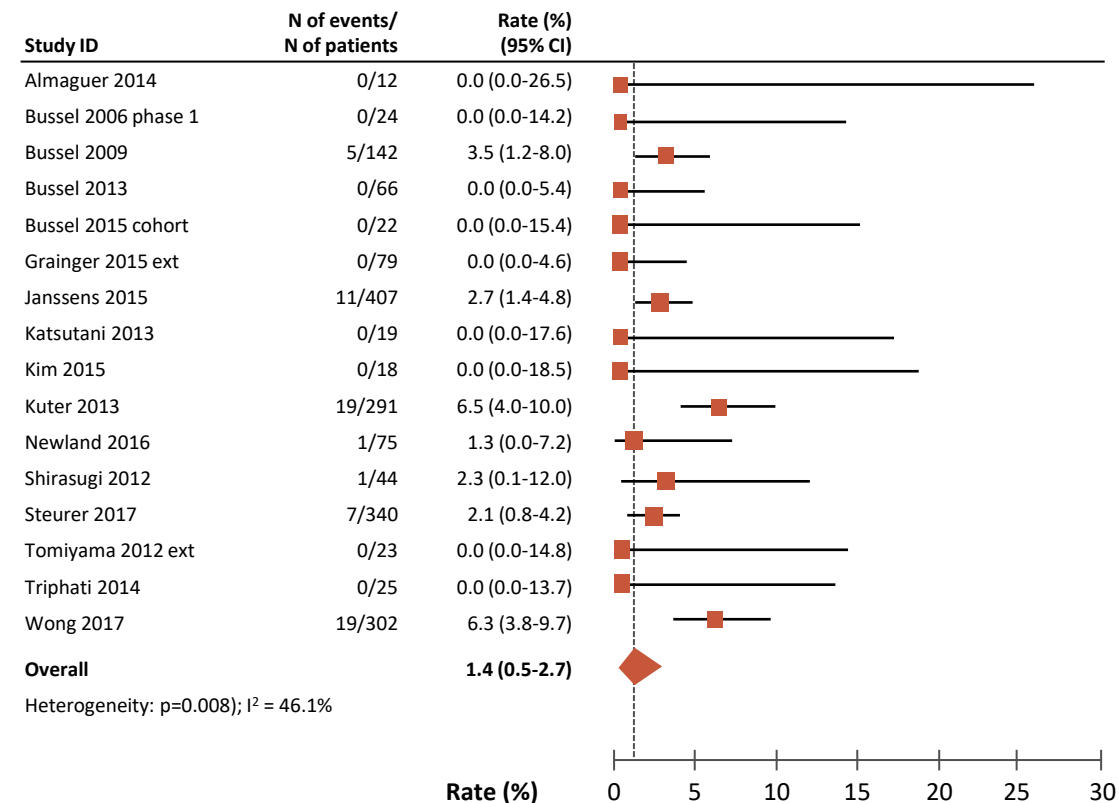
Study	Study duration (weeks)	TPO arm n/N (%)	Comparison arm n/N (%)	Remarks
Phase 3 core study				
Jurczak et al. 2018 ¹	26	3/32 (10%)	0/17 (0.0%)	DVT (day 8), asymptomatic PE (day 154); cerebrovascular event (day 89)
Phase 3 extension study				
Jurczak et al. 2018 ¹	104	1/39		Jugular vein thrombosis (day 335)

Of the 4 patients, 3 had multiple risk factors for thromboembolic disease, with the reported events associated with platelet counts from 39-271 × 10⁹/L and doses of avatrombopag from 10 to 40 mg.

Thrombotic events in RCTs



Thrombotic events in cohort studies



Incidence of arterial or venous thrombosis in patients treated with TPO-RA was 2.42%; RR 1.47 (95% CI, 0.61-3.53)



It seems that TPO-RAs increase the risk of VTE



Thrombosis during use of TPO-RAs is not related to:

- Type and dose of TPO-RA
- Duration of treatment
- Platelet count



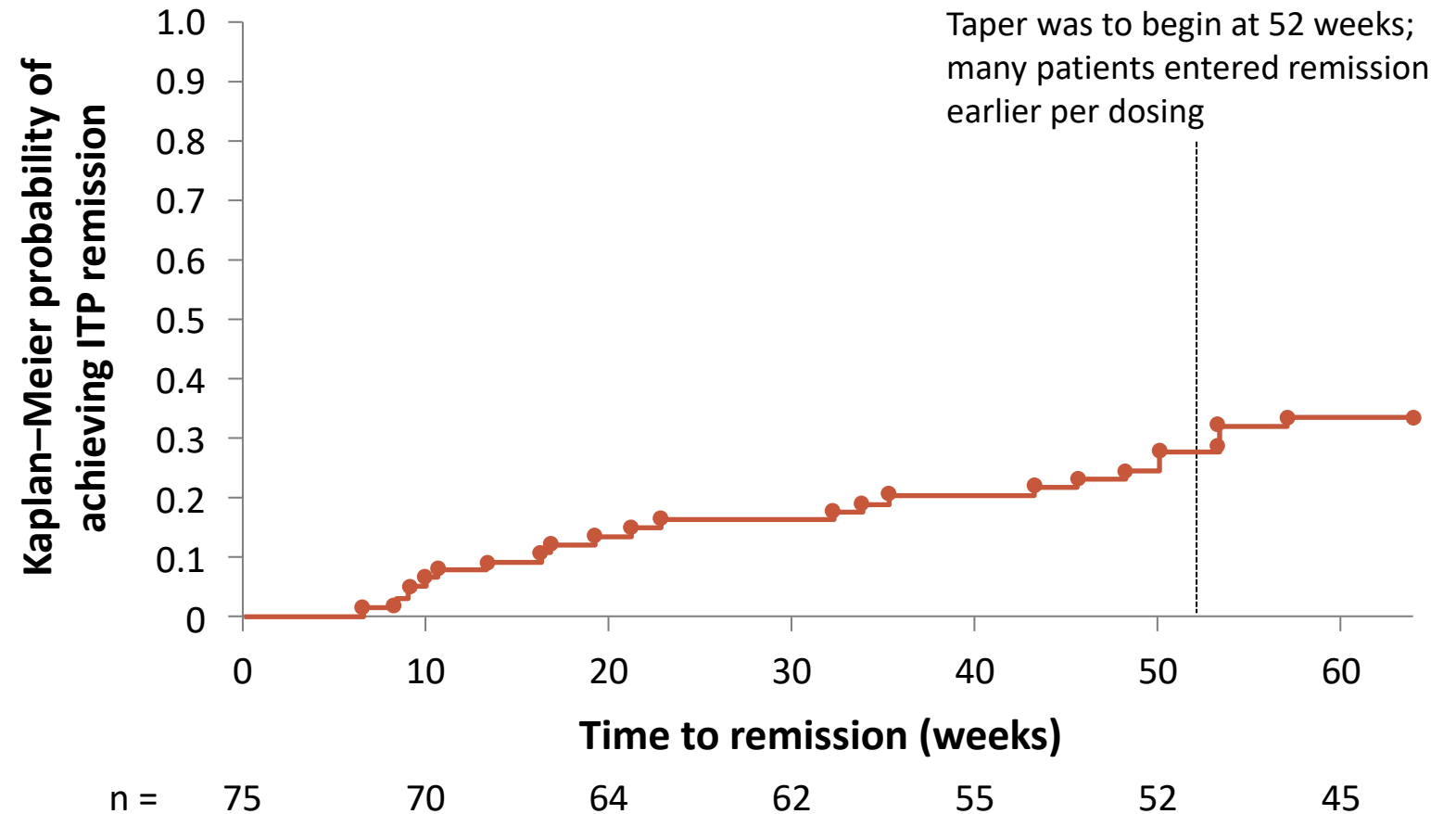
Individual risk profile should be considered when initiating treatment with TPO-RA

- Previous thromboembolism, splenectomy, presence of antiphospholipid antibodies and concomitant medications like oestroprogestinic preparations, and corticosteroids

DOES THE PATIENT NEED TO CONTINUE ON TPO-RA INDEFINITELY?

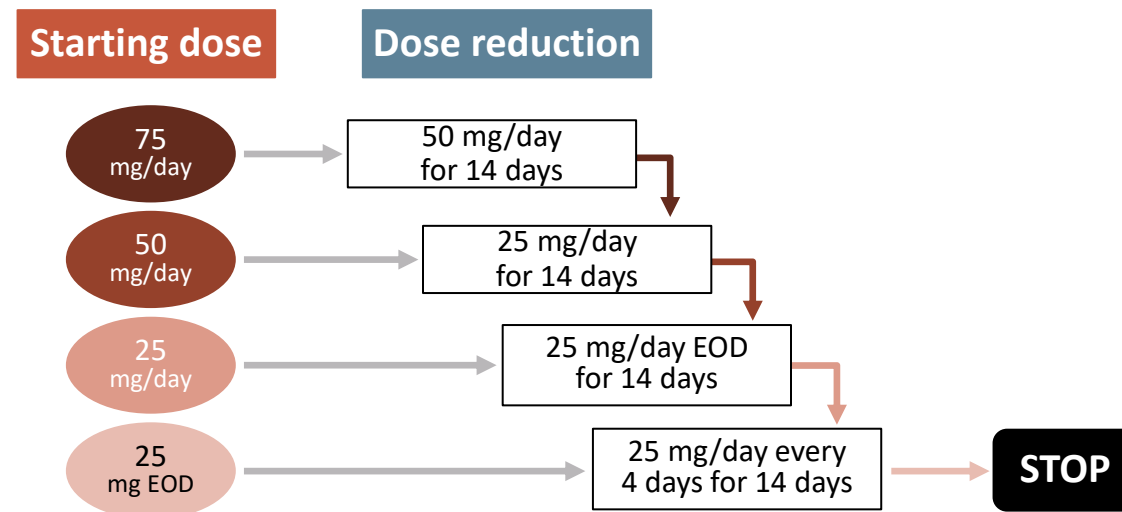
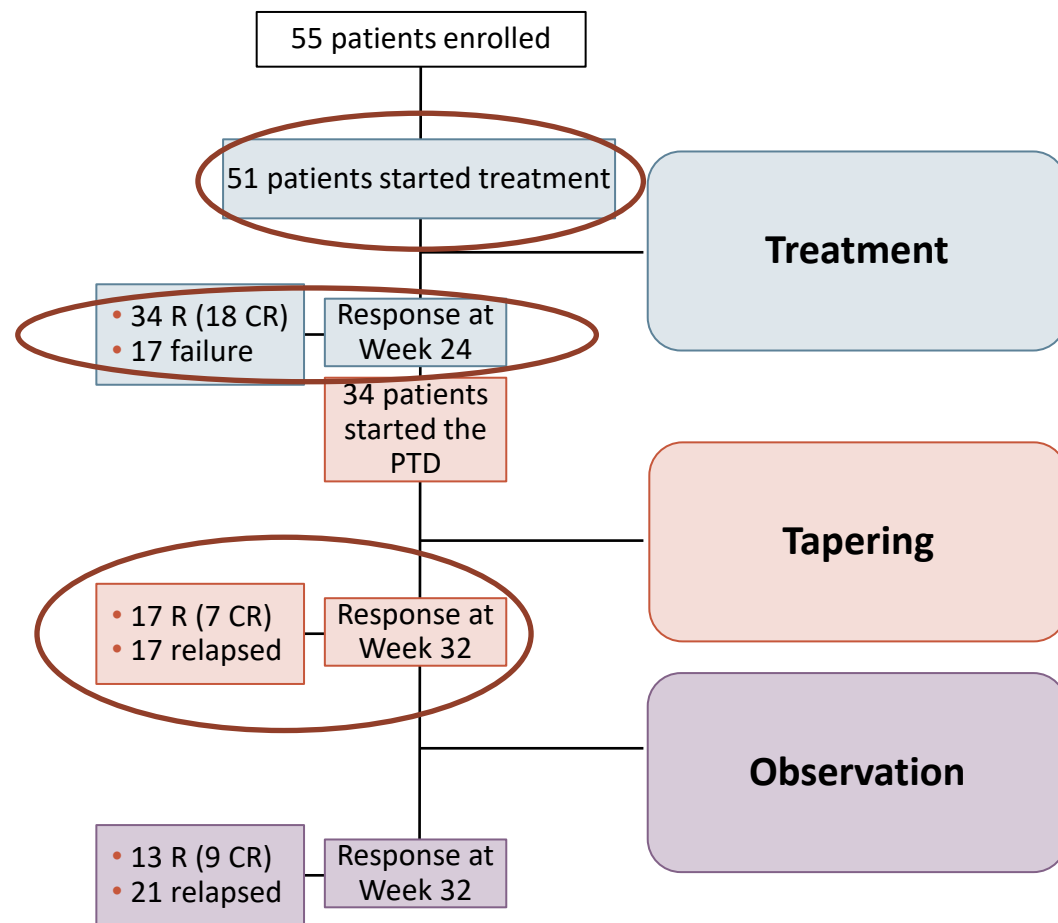
REMISSION AND PLATELET RESPONSES WITH ROMIPLOSTIM IN PRIMARY ITP: A PHASE 2 STUDY

- N=75
- **Response** achieved in 70 patients (93%)
- **Remission** observed in 24 patients (32%)



No significant predictors of remission identified

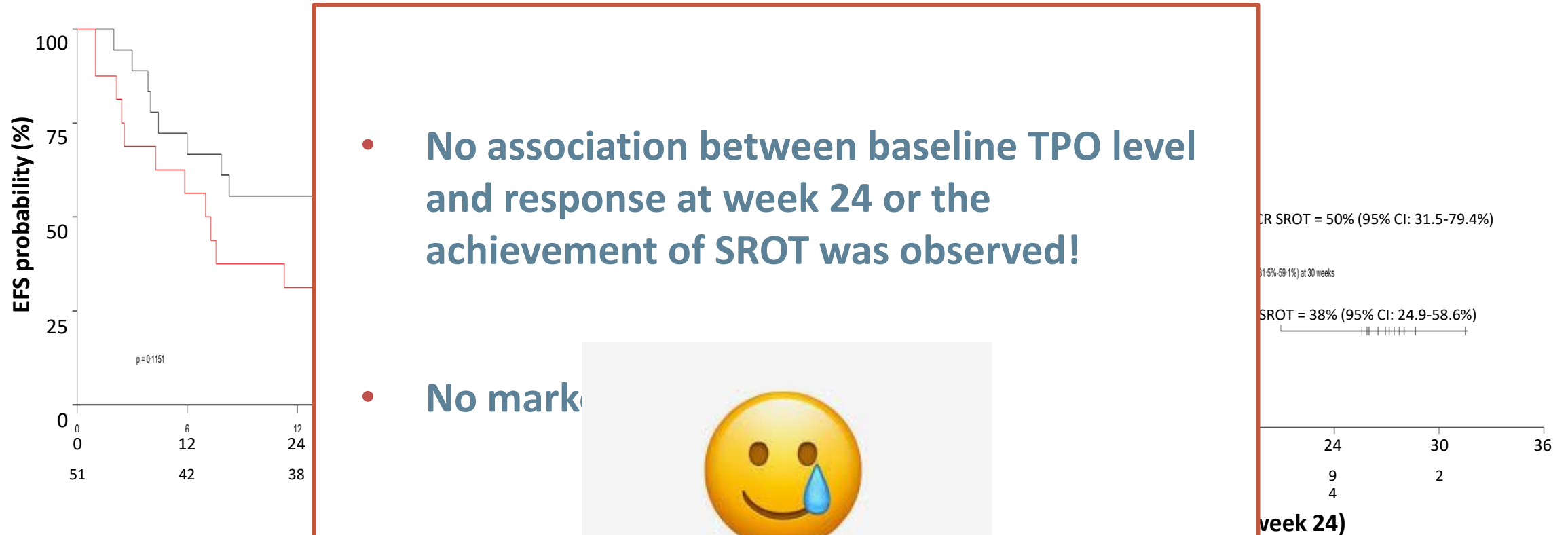
PHASE 2 STUDY ON 2ND-LINE ELTROMBOPAG IN ADULTS WITH PRIMARY ITP, AIMING TO ACHIEVE SUSTAINED REMISSION OFF TREATMENT



Primary end-point: sustained remission off-treatment

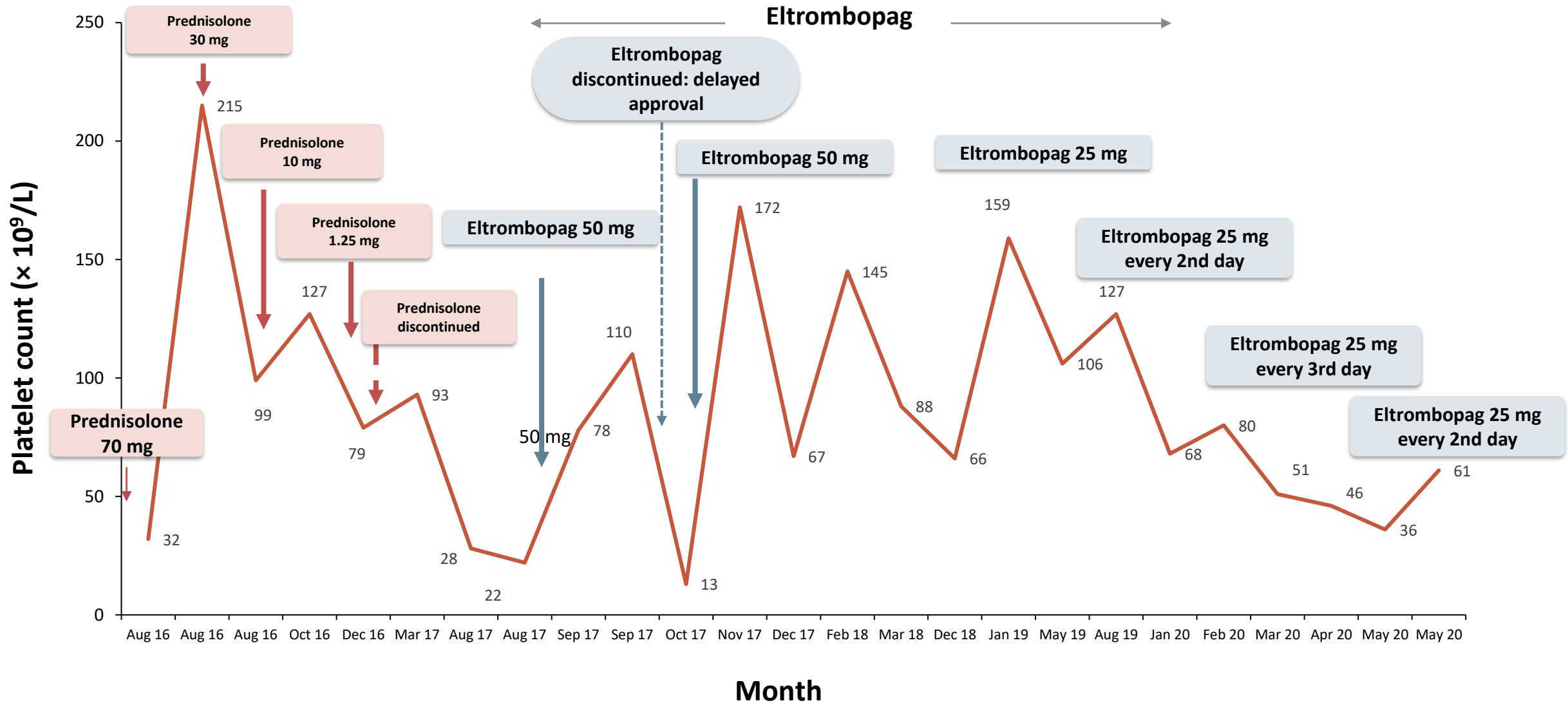
(proportion of responders that were able to taper and discontinue eltrombopag maintaining the response for 6 months)

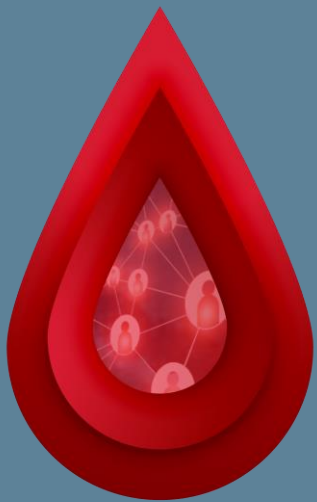
SUSTAINED REMISSION OFF-TREATMENT WAS ACHIEVED IN 25%



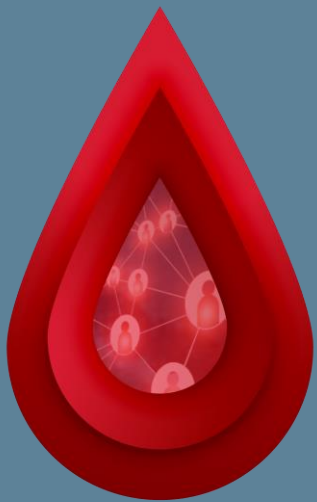
Event-free survival of all 51 evaluable patients. The majority of patients relapsed during PTD (week 25-32)

Event-free survival in patients who started tapering and discontinuation and continued in the period of observation





QUESTIONS AND CONCLUSIONS



THANK YOU

THANK YOU!

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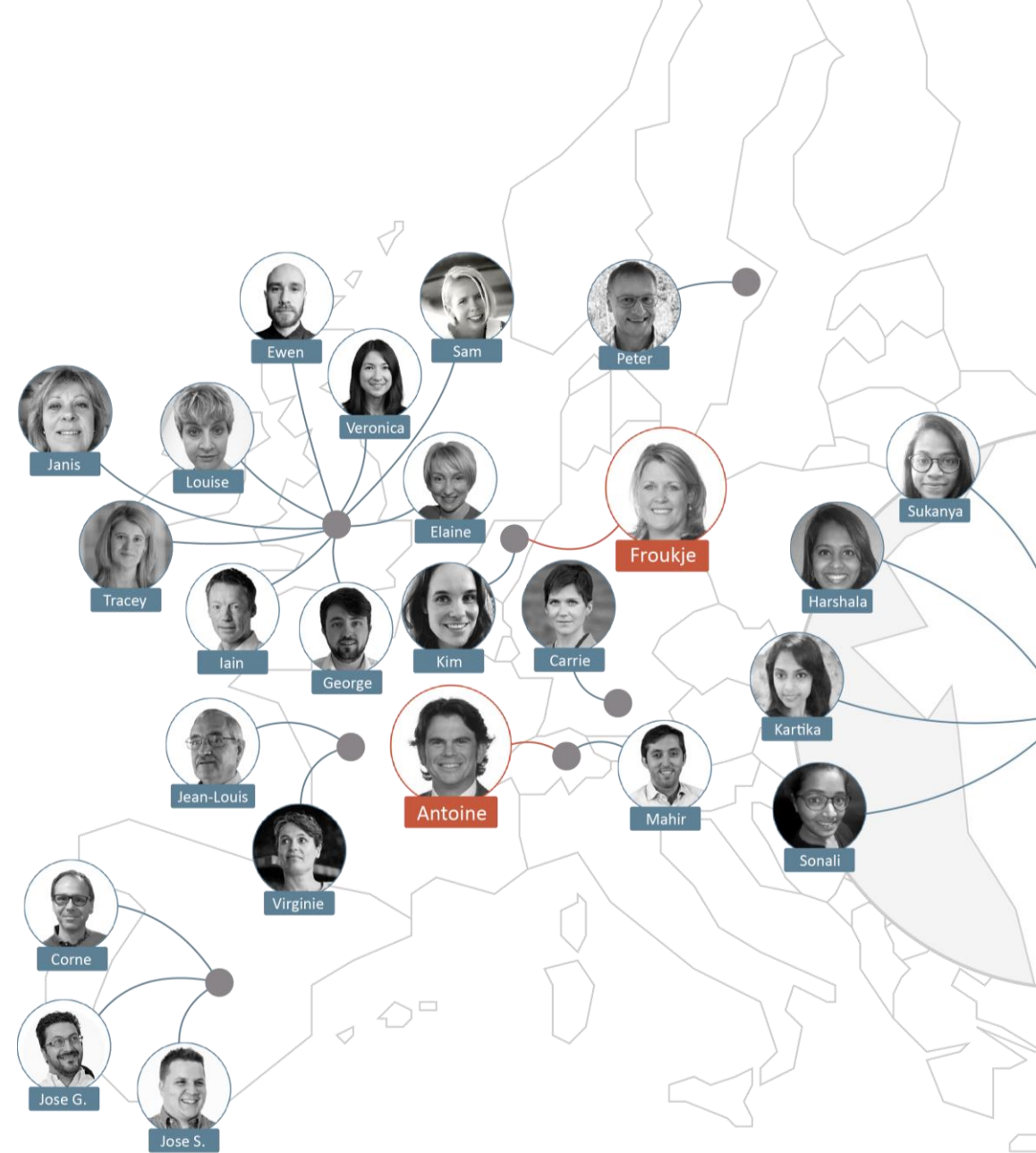
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