COR2ED® THE HEART OF MEDICAL EDUCATION

EXPERTS KNOWLEDGE SHARE

PRACTICAL CONSIDERATIONS AROUND THE USE OF THROMBOPOIETIN-RECEPTOR ANTAGONISTS (TPO-RAs) IN IMMUNE THROMBOCYTOPENIA (ITP)

Dr. Hillary Maitland, Dr. Michael Tarantino, and Dr. Vickie McDonald

Friday December 11th, 2020

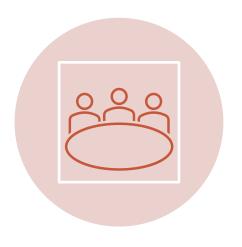
EXPERTS KNOWLEDGE SHARE



THE OBJECTIVE OF THIS MEETING IS TO DISCUSS PRACTICAL CONSIDERATIONS AROUND THE USE OF TPO-RAS IN ITP







YOUR OPPORTUNITY TO **DISCUSS AND SHARE LEARNINGS** ON A CHALLENGING

TOPIC WITHIN THE AREA OF ITP

A CHANCE TO HEAR THE **VIEWS OF EXPERTS**AND ALLOW THEM TO ANSWER THE
QUESTIONS THAT ARE IMPORTANT TO YOU

REVIEW AND DISCUSS PATIENT CASE

STUDIES, USING THE QUESTIONS THAT YOU

HAVE SENT IN ADVANCE OF THIS EVENT

EXPERTS KNOWLEDGE SHARE EDUCATIONAL OBJECTIVES





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

INTRODUCING THE SCIENTIFIC COMMITTEE









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

EXTENDING THE REACH FOR THOSE NOT ABLE TO ATTEND TODAY





Newsletter #1: ummarising video a

Summarising video and slides from EKS

Newsletter #2:

Link to e-learning:

- Videos, Slides and Supporting reading material
- Assessment test to obtain continuing medical education (CME) credit

EXPERTS KNOWLEDGE SHARE AGENDA



PRACTICAL CONSIDERATIONS AROUND THE USE OF TPO-RAS IN ITP

Time	Topic	Facilitator
5 minutes	Welcome and introductions	Iain Murdoch and Kim Grootscholten (COR2ED)
5 minutes	Overview and scene setting	Hillary Maitland
15 minutes	Initiation of treatment for ITP	Hillary Maitland
15 minutes	Monitoring safety and efficacy	Michael Tarantino
15 minutes	Long-term remission, tapering and adjusting treatment	Vickie McDonald
5 minutes	Lead-in to breakout sessions	Iain Murdoch (COR2ED)
25 minutes	Three breakout sessions Groups discussing questions and case studies and sharing experience	All
5 minutes	Closing remarks	Michael Tarantino and Iain Murdoch (COR2ED)

INITIATION OF TREATMENT FOR ITP

Dr. Hillary Maitland, MD

University of Virginia, Charlottesville, VA, USA

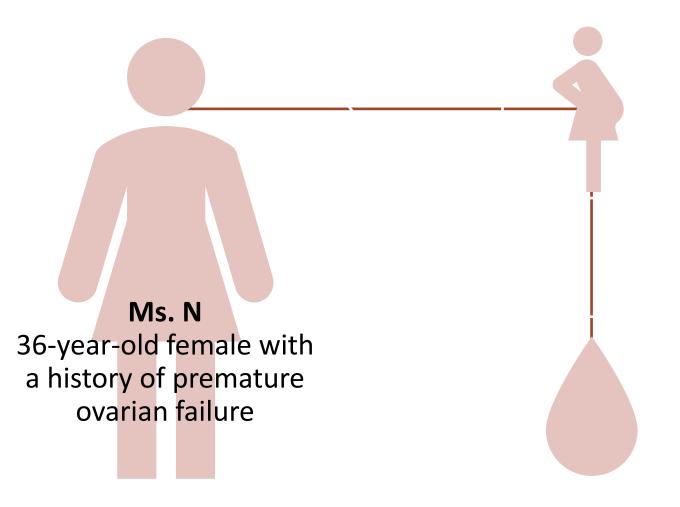
DISCLOSURES



• Grants/honoraria from Dova and Sanofi

CASE





She underwent in vitro fertilization (IVF) with a donor egg and delivered her daughter in January

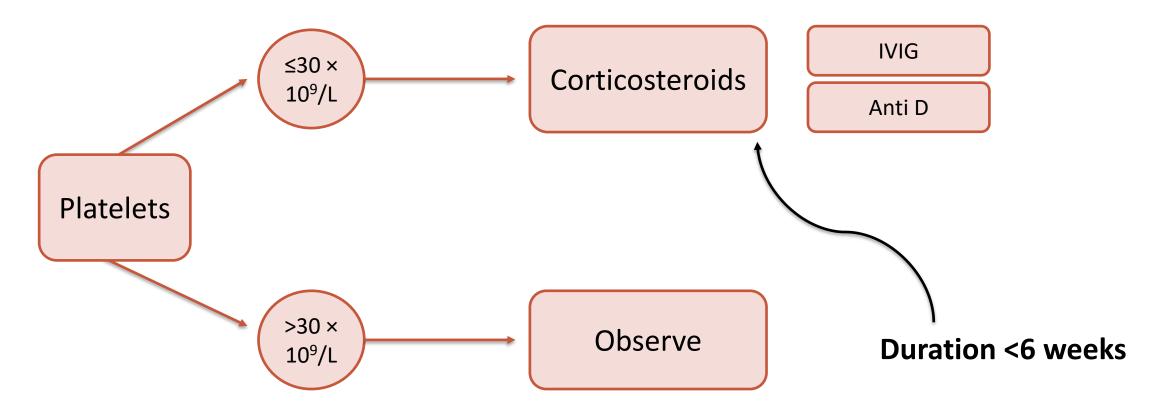
In May she developed gingival bleeding and easy bruising and was found to have a platelet count of 8k

IVF, in vitro fertilisation

INITIAL TREATMENT OF ITP

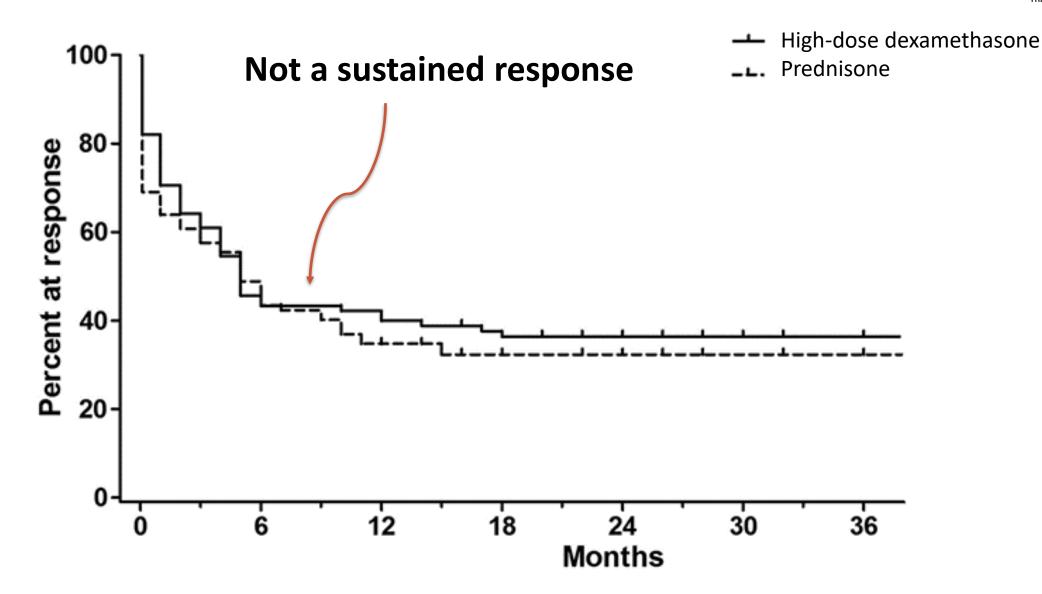


ASH GUIDELINES



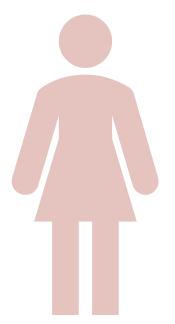
DEXAMETHASONE OR PREDNISONE?





CASE





- Ms. N gets dexamethasone 40 mg daily for 4 days
- Her platelet count normalises
- One month later platelet count is 23k

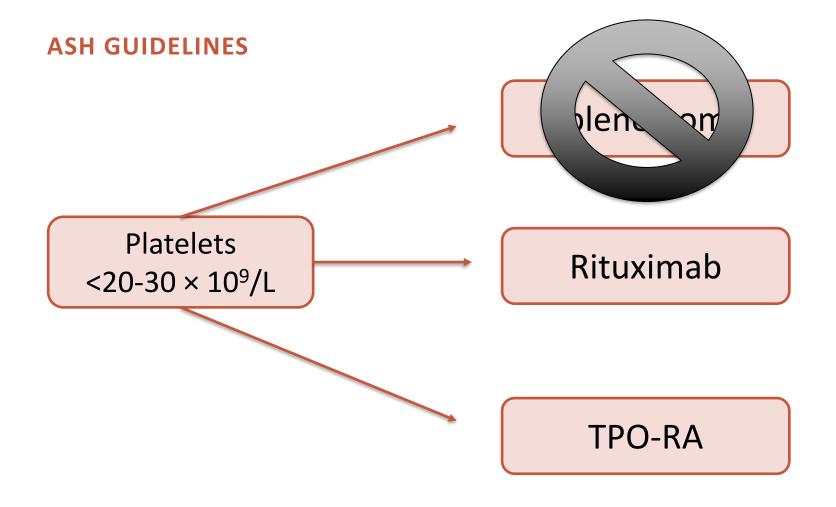






SECOND-LINE THERAPY

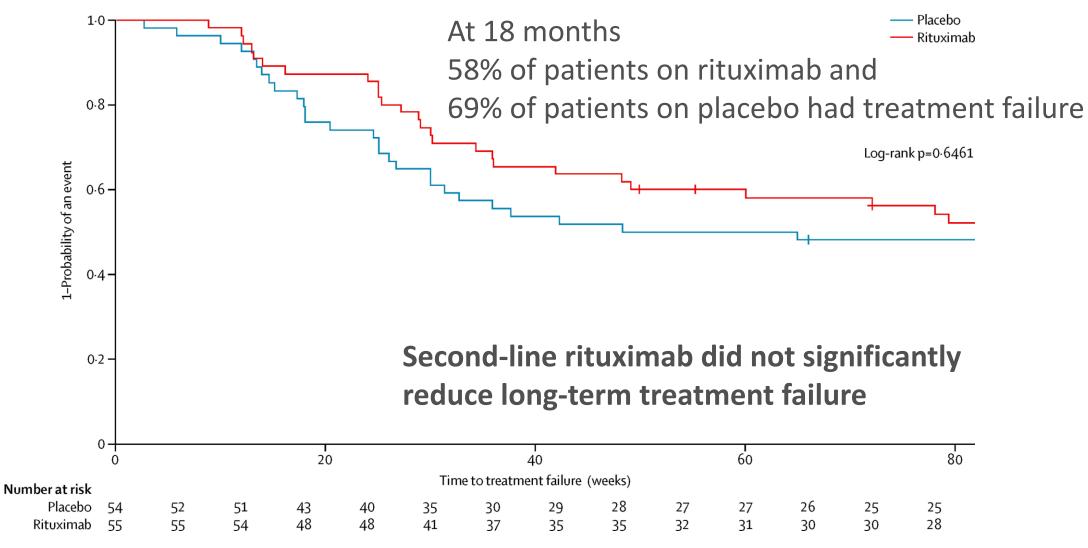




No splenectomy until 1 year out

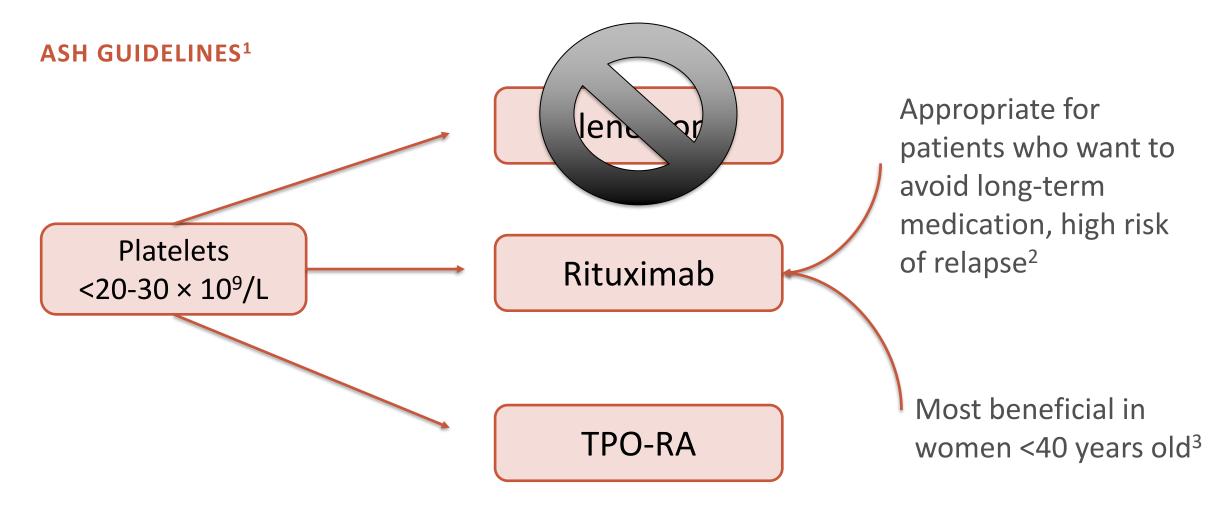
RITUXIMAB



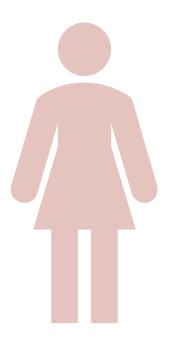


SECOND-LINE THERAPY





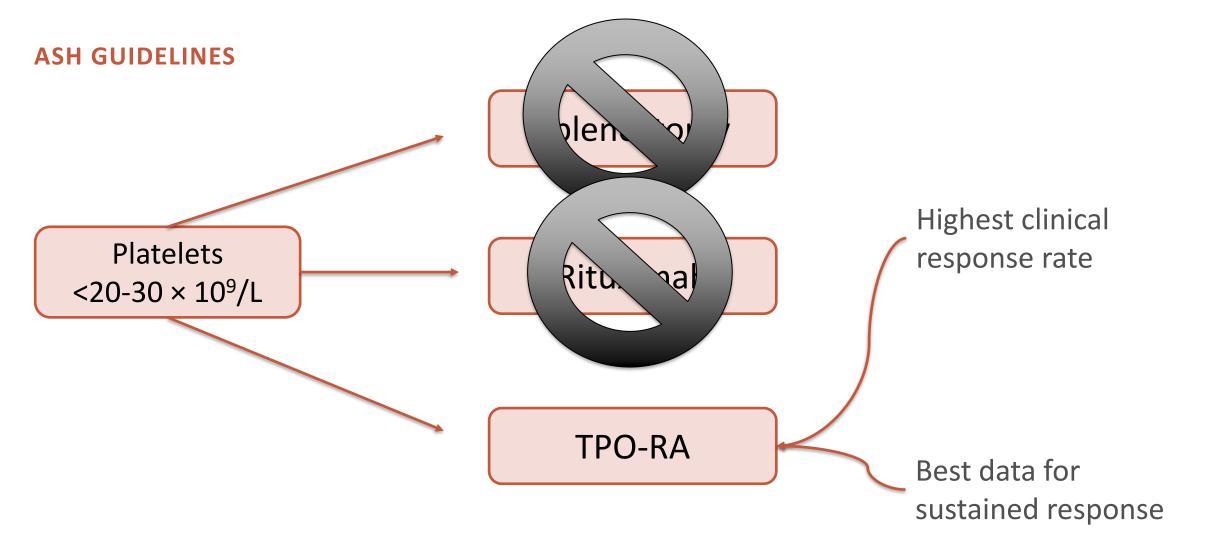




- Ms. N decides to start rituximab
- During her first infusion she develops itching and tachycardia, so the infusion is stopped
- Platelets are now 19k

SECOND-LINE THERAPY





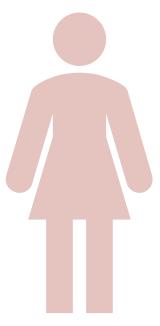
THROMBOPOIETIN RECEPTOR AGONISTS



	Romiplostim	Eltrombopag	Avatrombopag
Dosing			
Starting dose	1 μg/kg/week (label) 3 μg/kg/week (realistic) 5 μg/kg/week (severe)	50 mg daily 25 mg daily (Asian patients)	20 mg daily
Min/max dose	10 μg/kg/week 1 μg/kg/week	75 mg/day (150 mg approved for AA) 12.5 mg/day	40 mg/day 20 mg/week
Route	Subcutaneously once weekly	Oral, daily	Oral, daily
Administration considerations	Can patient self-administer injections Increased monitoring Cost (+/-)	Timing in relation to food containing calcium	Taken with any food
Safety considerations	Well tolerated, low AEs Increased platelet variability	Well tolerated, low AEs Hepatotoxicity Less bleeding events	Well tolerated, low AEs Headache Newer drug

CASE





We start Ms. N on avatrombopag 20 mg daily





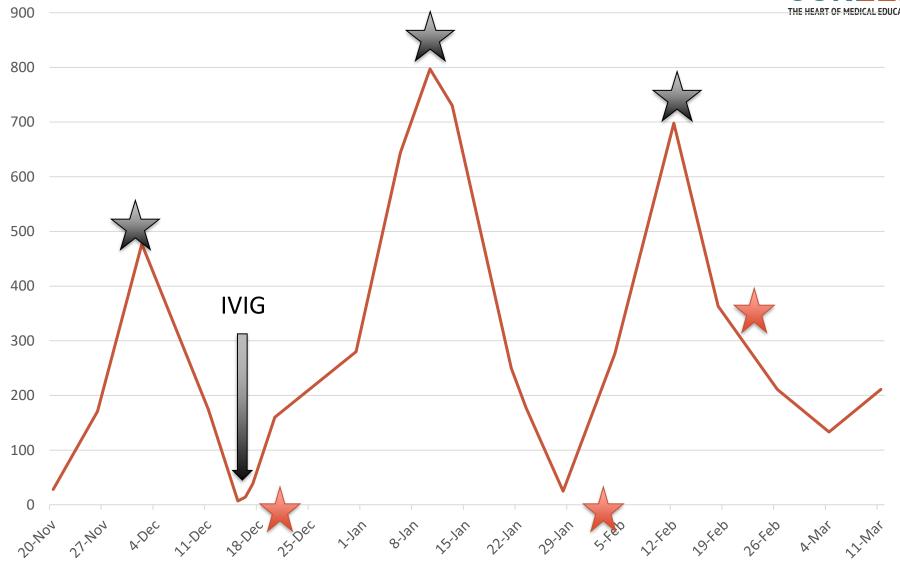




Hold



Restart at reduced dose



SUMMARY THROMBOPOIETIN RECEPTOR AGONISTS





Try to limit steroid exposure to <6 weeks



Choice of second-line treatment is based on patient preference



TPO-RAs have similar efficacy and safety profiles

MONITORING SAFETY AND EFFICACY OF TPO-RAS

Michael Tarantino, MD

CEO, CMO and President

Bleeding and Clotting Disorders Institute

Professor of Pediatrics and Medicine

University of Illinois College of Medicine-Peoria, IL, USA

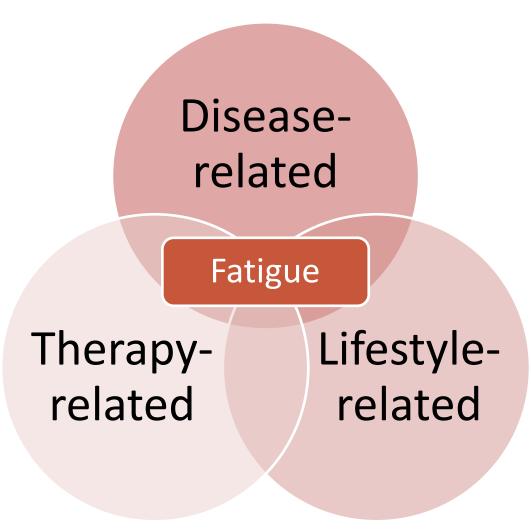
DISCLOSURES



• Honoraria/Grants from Amgen, Biogen, BioMarin, Genentech, Grifols, Hemabiologics, Novartis, NovoNordisk, Octapharma, Pfizer, Principia, Rigel, Spark Therapeutics, Sobi and Takeda

CLINICAL CONSEQUENCES OF ITP MORBIDITY





ITP, immune thrombocytopenia

TPO-RAS: THE MANY DEFINITIONS OF RESPONSE MONITORING OBJECTIVES



Quantitative

- Platelet count
 - Rate of response (durable, overall, any)
 - Height of response (median, mean platelet counts)
 - Time to response
 - Durability of response (% of time [weeks] with response)
 - Odds of response (compared with placebo or SOC)

Qualitative

- Bleeding prevention or cessation
 - Determining the hemostatic range for platelet count
 - In clinical trials, $50-200 \times 10^9/L$
 - Real world: tailored to individual patient
- Discontinuation of concomitant medications
- Fatigue and other QoL improvement

ASSESSING RESPONSE TO ITP TREATMENTS



Quality of response

- CR: platelet count ≥100 × 10⁹/L and absence of bleeding
- R: platelet count ≥30 × 10⁹/L and at least 2-fold increase the baseline count and absence of bleeding
- NR: platelet count <30 × 10⁹/L or less than 2-fold increase of baseline platelet count or bleeding

Duration of response

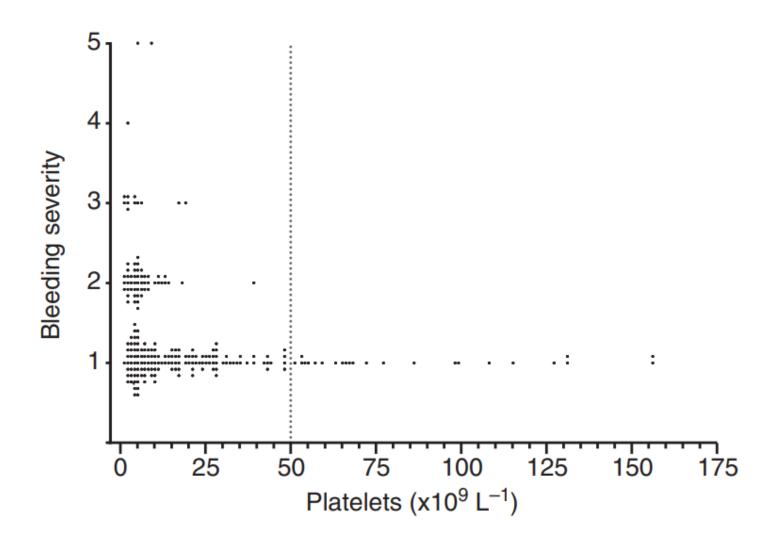
 Measured from the achievement of CR or R to loss of CR or R

Corticosteroid dependence

 The need for ongoing or repeated doses administration of corticosteroids for at least 2 months to maintain a platelet count at or above 30 × 10⁹/L and/or to avoid bleeding (patients with corticosteroid dependence are considered nonresponders)

EVALUATION OF BLEEDING EVENTS DURING LONG-TERM USE OF ROMIPLOSTIM IN PATIENTS WITH CHRONIC ITP





ADMINISTRATION AND DOSING OF THE TPO-RAS



Name	Maker	Molecule	Route of administration	Approved starting dose
Romiplostim	Amgen	Peptibody	Subcutaneous	1 mcg/kg
Eltrombopag	Novartis	Small molecule	Oral	50 mg/day*
Avatrombopag	Sobi/Dova	Small molecule	Oral	20 mg/day

^{*}starting dose for patients of Asian ancestry and children 1 to <6 years of age is 25 mg/day

PRIMARY OUTCOME IN PIVOTAL TRIALS OF TPO-RAS



Agent	Platelet response metric
Romiplostim ¹	Durable Response: platelet count $\geq 50 \times 10^9/L$ during 6 or more of the last 8 weeks of treatment
Eltrombopag ²	Odds of response to eltrombopag versus placebo
Avatrombopag ³	Cumulative number of weeks of platelet response (platelet count ≥50 × 10 ⁹ /L) without rescue therapy for bleeding

ADDITIONAL EFFICACY METRICS FOR TPO-RAS FOR CHRONIC ITP

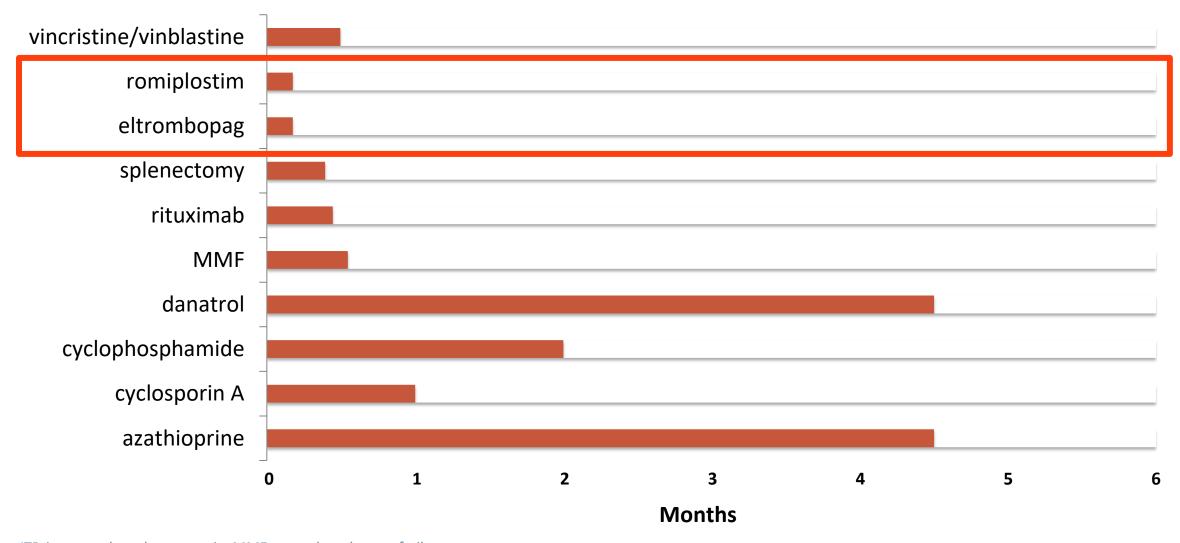


Drug	Dose	Response rate		Selected toxicities	
		Rate	Time to		
Rituximab ¹	375 mg/m ² IV weekly × 4	60% overall 40% CR 20-25% at 5 years	1-8 weeks	Infusion reactions, serum sickness, HBV reactivation, PML (rare)	
Romiplostim ¹	1-10 μg/kg SC weekly	80% overall 40-50% persistent	1-4 weeks	Reticulin fibrosis, rebound thrombocytopenia, thrombosis	
Eltrombopag ¹	25-75 mg PO daily	80% overall 40-50% persistent	1-2 weeks	Reticulin fibrosis, rebound thrombocytopenia, thrombosis, hepatotoxicity	
Avatrombopag ²	20 mg PO weekly – 40 mg PO daily	66% overall (day 8) 34% durable	1-2 weeks	HA, URI, thrombosis (class effect), rebound thrombocytopenia	
Fostamatinib ³	100-300 mg PO daily	44% overall 17% durable	2 weeks	HTN, transaminitis, hyperbilirubinemia, neutropenia	

CR, complete response; HA, headache; HBV, hepatitis B virus; HTN, hypertension; ITP, immune thrombocytopenia; IV, intravenous; PML, progressive multifocal leukoencephalopathy; PO, orally; SC, subcutaneous; TPO-RA, thrombopoietin receptor agonist; URI, upper respiratory infection

APPROXIMATE TIME TO RESPONSE FOR SECOND-LINE ITP TREATMENTS





DOSE ADJUSTMENT ALGORITHMS FOR TPO-RAS ROMIPLOSTIM



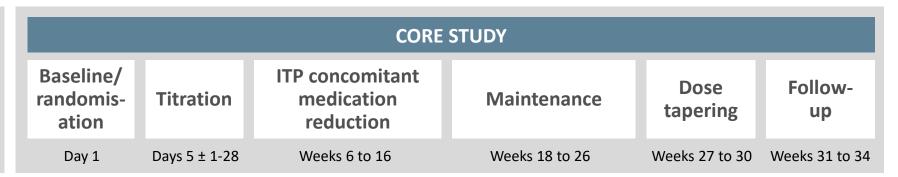
- The starting dose: 1 μg/kg
- Target $50-200 \times 10^9/L$:
 - If platelet count 10×10^9 /L or less: increase dose by 2 µg/kg every week
 - If platelet count $11-50 \times 10^9$ increase by 2 µg/kg every 2 weeks
 - If platelet count $>50 \times 10^9/L$, the maintenance algorithm was used:
 - increased by 1 μ g/kg every week if 10 × 10⁹/L or less
 - increased by 1 μ g/kg after 2 weeks if 11 to 50 × 10 9 /L
 - reduced by 1 μ g/kg after 2 consecutive weeks at 201 to 400 × 10 9 /L
 - withheld if >400 \times 10 9 /L and subsequent doses reduced by 1 μ g/kg and given after count was less than 200 \times 10 9 /L
- The maximum allowed dose was 15 µg/kg

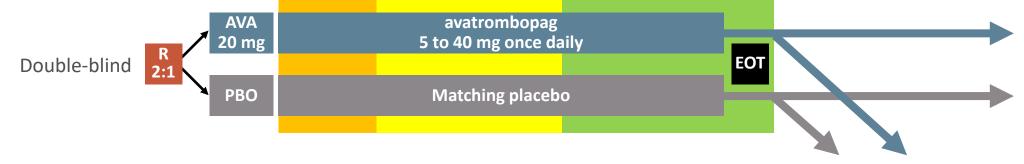
PIVOTAL STUDY PROTOCOL: AVATROMBOPAG



Core study design

PRE-RANDOMISATION Screening period Days -14 to -1





Eligible subjects enrol into Extension Phase

EFFICACY AND SAFETY OF TPO-RAS



Consideration	Romiplostim ¹⁻⁵	Eltrombopag ⁶⁻⁸	Avatrombopag ^{9,10}
Efficacy			
Onset of action	1-4 weeks	1-2 weeks	1-2 weeks
Rate of response	79-88%	70-81%	66% (day 8)
Remission potential	32% adult 23% children	10%	NE
Experience around surgery	+	+	+
Safety			
Dietary restrictions	-	+	-
Drug interactions	-	+*	+**
Thromboembolism	7%	6%	7%
Hepatobiliary effect	-	12%	-
Reticulin fibrosis/accumulation	3.7%	<10%	-
Rebound thrombocytopenia	7%	11%	NR
Neutralising antibodies	0.4%	-	-

^{*} Competitively binds to transporter proteins, chelates polyvalent cations

NE, not evaluated; NR, not reported;

^{**} Binds OAT3, BRCP, competes for Pgp

^{1.} Kuter DJ, et al. Br J Haematol. 2013;161:411-23; 2. Cines DB, et al. Int J Hematol 2015;102:259-70; 3. Nplate (romiplostim) Prescribing Information; 4. Newland A, et al. Br J Haematol. 2016;172:262-73; 5. Tarantino MD, et al. Haematologica. 2019;104:2283-2291; 6. Bussel JB, et al. Lancet 2009;373: 641-8; 7. Wong RSM, et al. Blood. 2017;130:2527-36; 8. Promacta (eltrombopag) Prescribing Information; 9. Piatek Cl, et al. 62nd Annual Meeting of the Am Soc Hematol. abstract 844; 10. Doptelet (avatrombopag) Prescribing Information.

MONITORING TPO-RA BASED ON GOALS OF TREATMENT



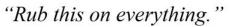
Goal	Means	
Bleeding	At what platelet count is bleeding resolved?	
Fatigue	At what platelet count is fatigue mitigated or resolved?	
Discontinuation of concomitant medication	Does treatment allow reduction or discontinuation of concomitant medication?	
Successful surgery	Does treatment reliably achieve hemostatic platelet count for surgery?	
Liberation of activity	What platelet count will allow safe participation?	

TPO-RAS MONITORING FOR SAFETY



Adverse Event	Trigger	Cause	Action
Thrombocytosis	Platelet count	Drug sensitivity	Dose adjustment
	Platelet count	Drug insensitivity	Dose adjust
Thrombocytopenia		Reticulin/Collagen fibrosis	Bone marrow examination Discontinue TPO-RA
		Anti-drug antibody	Specific assay Discontinue drug
		Poor adherence	Improve adherence
VTE, arterial thrombosis	Related signs/symptoms	Appropriate imaging	Discontinue drug
Hepatitis	Screening HFP	Unknown	Decrease dose or discontinue
Cataract	Visual field change Surveillance ocular examination	Unknown	Discontinue if TEAE





LONG-TERM REMISSION, TAPERING AND ADJUSTING TREATMENT WITH TPO-RAS

Dr. Vickie McDonald, MD

Royal London Hospital, London, United Kingdom

DISCLOSURES



• Honoraria/Grants from Amgen, Bayer, Grifols, Novartis, Rigel and Sobi

OUTLINE



How are TPO-RAs dosed? What are the goals of therapy in ITP? Does that alter how we approach TPO-RA therapy? Is there data to support long-term remission of ITP after TPO-RA therapy? Tapering of TPO-RAs

SEQUENCING TREATMENT:WHEN TO USE A TPO-RA?



Newly diagnosed

- 0-3 months
- Manage bleeding
- Steroids / intravenous immunoglobulin (IVIG)
- Average course prednisolone
 ~10 weeks
- If low counts / fall on weaning: early 2nd line treatment

Persistent

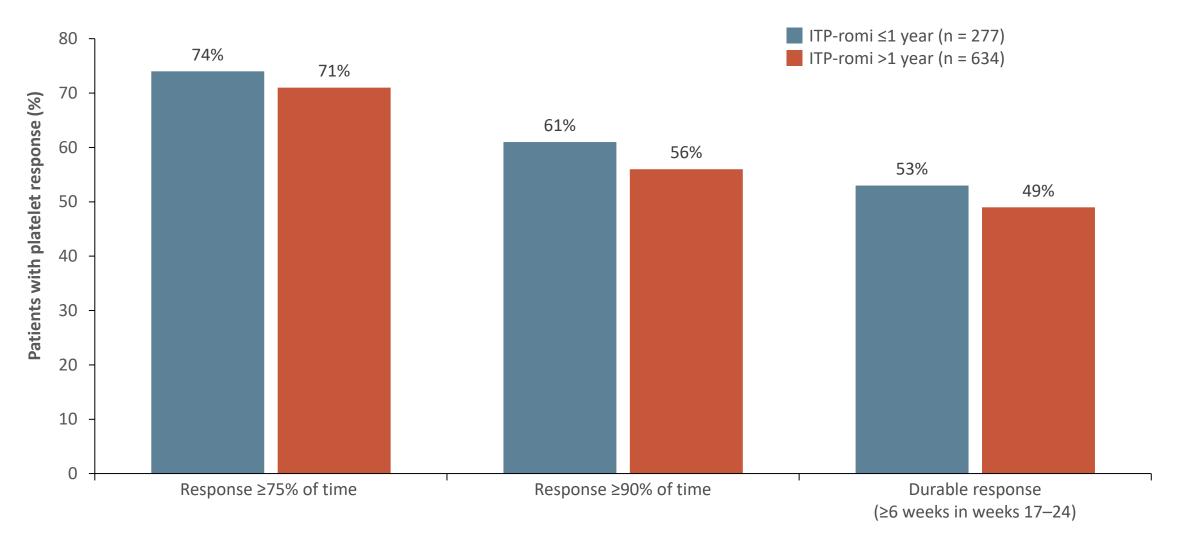
- 3-12 months
- Avoid long term steroids
- 2nd line (consider comorbidities):
 - TPO-RA
 - Rituximab
 - Mycophenolate mofetil (MMF)
 - Other agents...

Chronic

- 12 months+
- Agent choice determined by comorbidities / patient preference:
 - TPO-RA
 - Rituximab
 - MMF
 - Other agents...

IDENTICAL FREQUENCIES OF PLATELET RESPONSE: ITP ≤1 YEAR VS >1 YEAR





DOSE ADJUSTMENT 'BY THE BOOK': ROMIPLOSTIM AND ELTROMBOPAG



Romiplostim¹

- Starting dose 1 μg/kg once weekly
- Platelets $<50 \times 10^9/L$: increase by 1 µg/kg
- Platelets >150: decrease by 1 μg/kg
- Platelets >250: suspend; restart when platelets <150 at dose reduced by 1 μg/kg

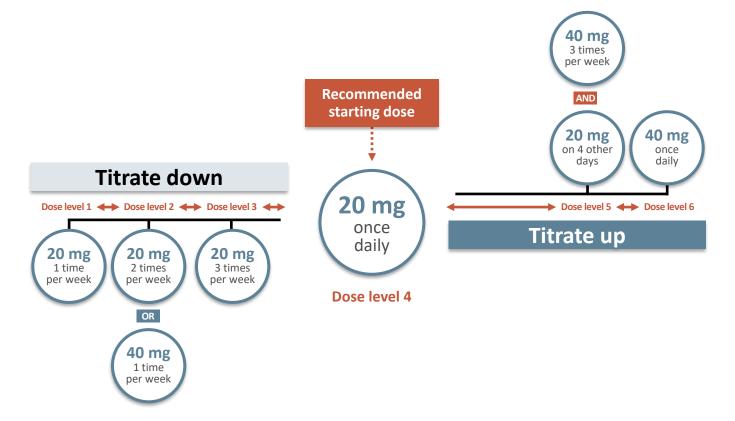
Eltrombopag²

- Starting dose 50 mg once daily
 - 25 mg for Asian patients
- Platelets <50 after at least 2 weeks of therapy: increase dose by 25 mg to max 75 mg
- Platelets >150 to ≤250: decrease daily dose by 25mg – wait 2 weeks to assess effect
- Platelets >250: stop, once platelets ≤100 restart at daily dose reduced by 25 mg

DOSE ADJUSTMENT 'BY THE BOOK' AVATROMBOPAG



Titrate up or down as necessary, based on platelet count

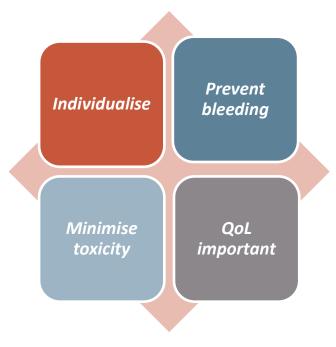


Avatrombopag starting dose 20 mg

 *40 mg once daily for patients on moderate or strong dual inducers of CYP2C9 and CYP3A4

GOALS OF THERAPY IN ITP: WHAT TO TARGET WHEN DECIDING DRUG DOSES





Moved from
"The platelet count is key"
to
"Platelets plus symptoms

"Platelets plus symptoms (and minimising toxicity) are key"

- Patients need a <u>safe</u> platelet count, not a normal platelet count:
 - Platelets <10 × 10⁹/L usually need treatment
 - Platelets $>30 \times 10^9/L$ can usually be managed by observation
 - Platelets 10 to 30 × 10⁹/L, more likely to treat if:
 - High bleed risk, prior bleeding, active bleeding
 - Age
 - Symptoms
 - Lifestyle, occupation and risks
 - Co-morbidities/ concurrent medication: anticoagulation

Increased move to **individualised therapy** where possible

TPO-RAS CAN INDUCE A LONG-LASTING IMMUNOLOGICAL RESPONSE



Increased or improved T-regulatory cell activity ¹
Increased B-regulatory cell activity ²
Increased TGF-beta (mediates the increased T- and B-regulatory cell activity) ³
Change in Fc receptors: reversal of Fc receptor balance towards FcRIIb (inhibitory) ⁴
Reduces antiplatelet antibody levels in mice with ITP ⁵

TREATMENT-FREE "REMISSION" IN ITP TERMINOLOGY



- Treatment-free remission vs thrombocytopenia-free remission
 - Significance of terminology
 - Complete response (CR): platelets ≥100 x 10⁹/L
 - (Partial) response: platelets ≥30 x 10⁹/L and two-fold increase from baseline
- Treatment-free remission
 - No longer requiring active therapy, considered low risk for bleeding
- What threshold?
 - Platelets $>50 \times 10^9/L$
 - Platelets $> 30 \times 10^9/L$
- For how long?
- Mazzucconi et al (2017)¹
 - "Durable response": response or CR lasting ≥4 weeks with a stable dose of TPO-RA
 - "Sustained response": platelet count ≥30 × 10⁹/L after > 4 weeks since TPO-RA discontinuation, in the absence of concomitant treatments



UK ADULT ITP REGISTRY DATA



Adults treated with romiplostim (N = 118)				
Year of romiplostim initiation, n (%)				
2009	1 (1)			
2010	5 (4)			
2011 (NICE recommendation)	29 (25)			
2012	26 (22)			
2013	31 (26)			
2014	26 (22)			
Duration of romiplostim administration, months				
Mean (SE)	5.7 (0.9)			
Median (IQR)	1.4 (0.2-6.5)			
Median (IQR) maximum weekly dose of romiplostim, mcg/kg	3.0 (2.0-6.0)			
≥ 6 months of follow-up after last romiplostim dose, n (%)	84 (71)			
Did not have romiplostim for > 6 months after receiving the last dose, n (%)	45 (38)			

Time from romiplostim initiation to the last dose for those who discontinued, n (%)			
N	84		
<1 month	37 (44)		
1 to <3 months	8 (10)		
3 to <6 months	10 (12)		
6 to <12 months	10 (12)		
>12 months	19 (23)		

SUSTAINED RESPONSES TO TPO-RA OFF TREATMENT¹



Study	TPO-RA	Patients, n	Patients who discontinued TPO-RA, n (% of all patients)	Patients with off-treatment responses, n (% of all patients)	Median follow-up, months
Leven et al, 2012	E	15	5 (33)	5 (33)	6+
Mahevas et al. 2014	E, R	54	20 (37)	8 (15)	13.5
Cervinek et al. 2015		46	11 (24)	11 (24)	33
Gonzalez-Lopez et al. 2015	E	12	12 (100)	12 (100)	7
Newland et al. 2016	R	4	3 (75)	3 (75)	29.5
Marshall et al. 2016	R	43	12 (28)	12 (28)	20
Bussel et al. 2016	R	302	10 (3)	9 (3)	6+
Carpenedo et al. 2015	R	27	13 (48)	13 (48)	26
Mazzucconi et al. 2017 ²	E,R	39	7 (18)	7 (18)	19.4

POSSIBLE CRITERIA TO BE CONSIDERED AS PARAMETERS OF TPO-RA TAPERING AND DISCONTINUATION





- Response status
 - Patients with a CR and treated with lower doses of a TPO-RA for ≥ 6 months
 - *? CR or lower platelet count acceptable
- ITP duration
- Age of patient
 - ? predictive
- Number of lines of previous treatment
 - ? better if low



- Response status
 - Patients requiring high-dose TPO-RA
 - Platelets < 50 x 10⁹/L
- ITP that was previously hard to manage
- Duration
 - TPO-RA < 6/12 months
- High risk of bleeding if treatment stopped
- Concurrent medication
 - Antiplatelets or anticoagulants
- Significant comorbidities, risk of recurrent infection

HOT OFF THE PRESS...

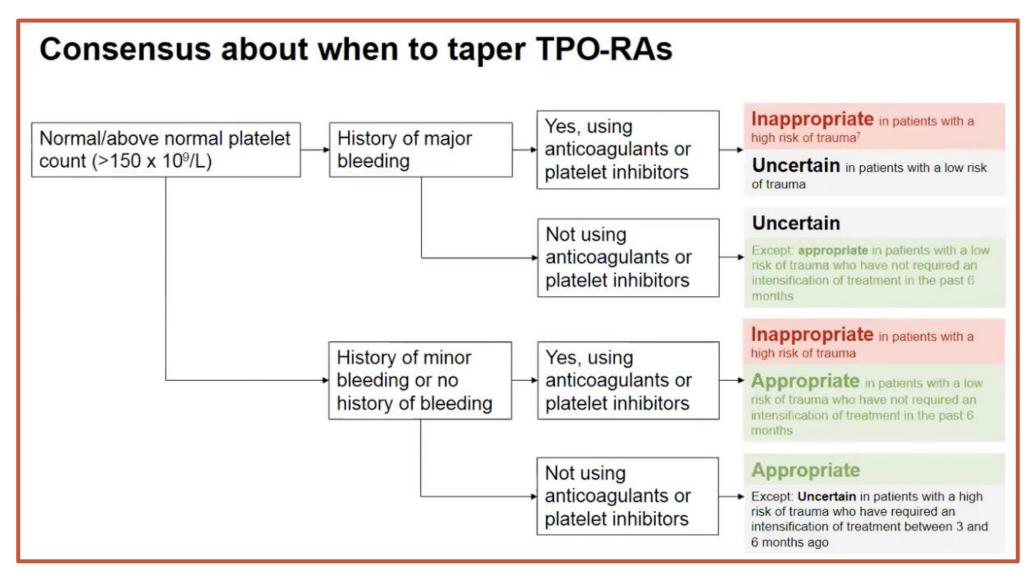


Five characteristics significantly impacted ratings

Characteristics included in patient scenarios	p-value
Platelet count (normal/above normal [>150 x 10 ⁹ /L]), adequate [50-150 x 10 ⁹ /L], responding but still low [30-50 x 10 ⁹ /L])	<0.001
History of bleeding (none, minor, major)	0.001
Intensification of treatment (between 3 and 6 months ago, none in the past 6 months)	<0.001
Trauma risk (low, high)	<0.001
Use of anticoagulants or platelet inhibitors (no, yes)	<0.001
Duration of ITP (persistent, chronic)	0.427
Months on TPO-RA monotherapy (≤12, >12 months)	0.964
Platelet response to TPO-RA (early, not early)	0.881

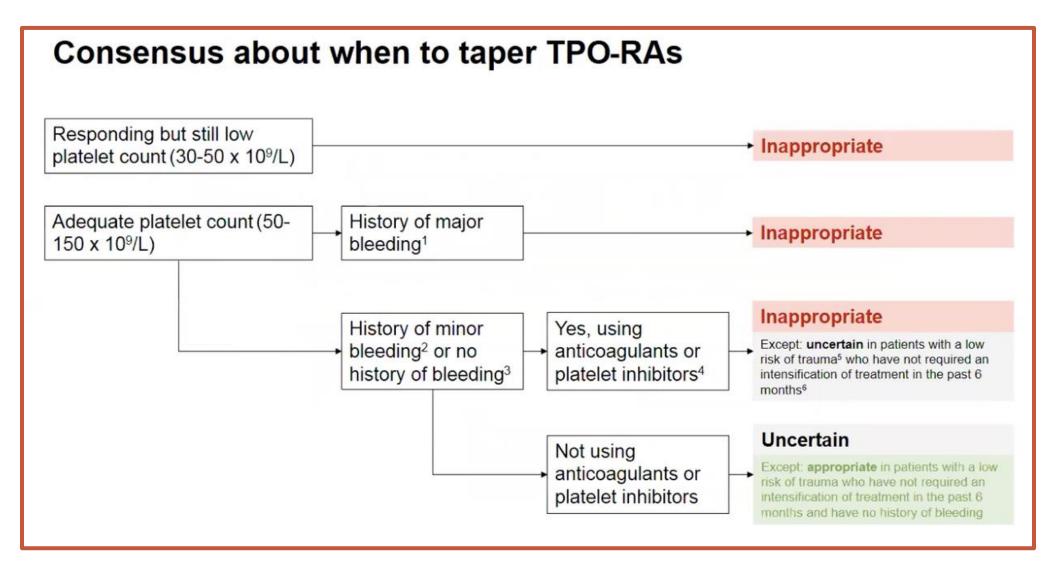
HOT OFF THE PRESS...





HOT OFF THE PRESS...



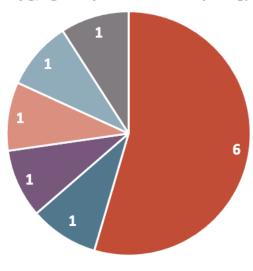


HOW TO TAPER: NO INTERNATIONAL CONSENSUS

EXPERT OPINION

DOSE REDUCTION: HOW QUICKLY?

romiplostim (considering a dose of x μg/kg every week before tapering)



- Go to $x 1 \mu g/kg$ every week
 Go to $x 2 \mu g/kg$ every week
- Go to $x 1 \mu g/kg$ every other week Go to $x - 2 \mu g/kg$ every other week
- Extend the same dose by 1 day
- At fortnightly intervals drop to 75% of *x*, then 50%, then 25%, then 10%, then stop

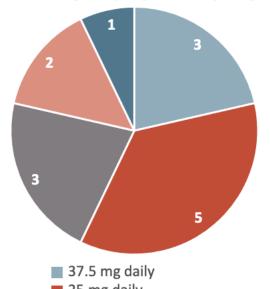


Tapering

Dose reduction by 25 mg every 2 weeks, to a minimum dose of 25 mg every 4 days, before interrupting treatment Period of tapering and discontinuation (week 25–week 32)

Period of observation (week 33–week 52)

eltrombopag (considering a dose of 50 mg every day before tapering)

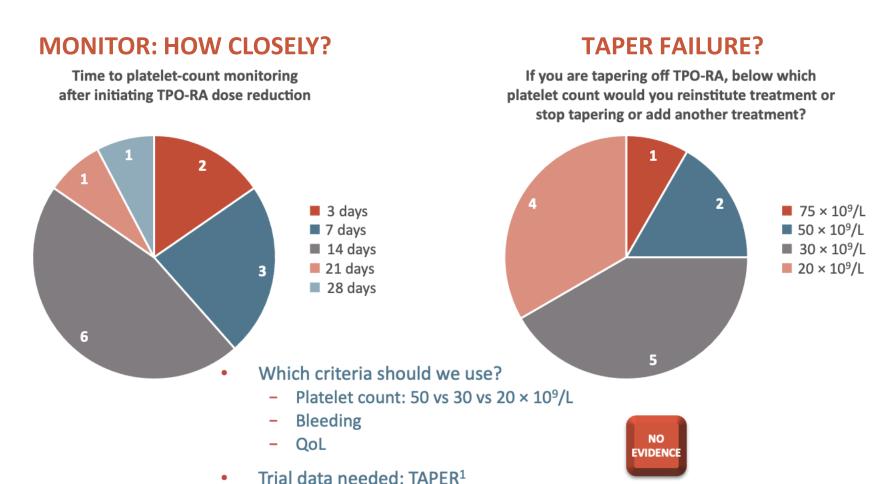


- 25 mg daily
- 25 mg alternating with 50 mg
- 50 mg 6 days per week
- 50 mg 5 days per week

HOW DO WE MONITOR TAPERING AND DEFINE FAILURE?



EXPERT OPINION



SUMMARY



TPO-RAs are increasingly being used second line in the treatment of ITP

Treatment should be **tailored to the patient's platelet count**, but wider **symptoms** should also be taken into consideration

Lowest dose that achieves a safe platelet count, with improvement in QoL should be used

There is an increasing body of evidence showing that TPO-RAs can lead to durable responses off treatment – and induce long-lasting immunological responses in some patients

At present there are no clear indicators for which patients are likely to achieve durable responses off treatment

Tapering is an 'evidence-free zone' and requires more studies

ACKNOWLEDGEMENTS/ THANKS



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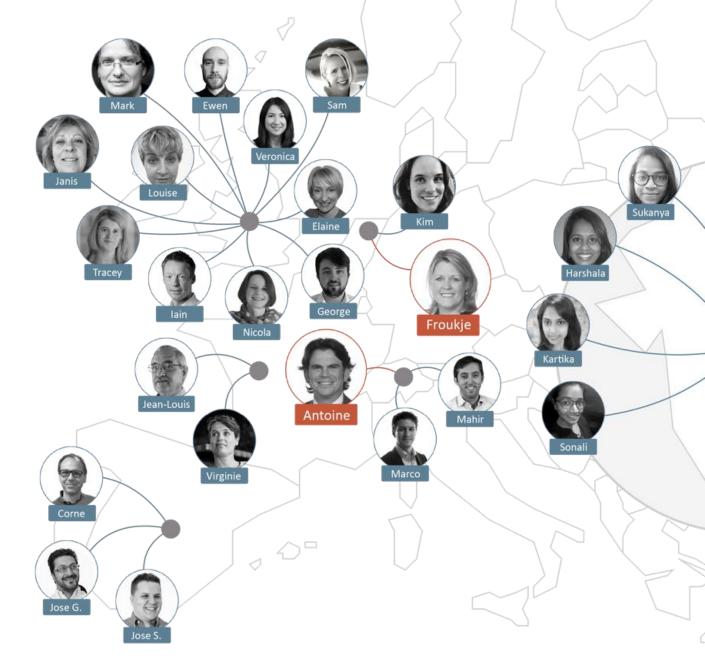
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