

Rozanolixizumab for treating antibody-positive generalised myasthenia gravis ID5092

Part 1 for projector –
contains redacted **CON**
information

Appraisal committee meeting 3

Technology appraisal committee B, 12 February 2026

Chair: Charles Crawley

External assessment group: Southampton Health Technology Assessments Centre (SHTAC)

Technical team: Chris Shah, Mary Hughes, Emily Crowe

Company: UCB

Rozanolixizumab for treating antibody-positive generalised myasthenia gravis

- ✓ **Recap**
- Key issues
- Other considerations
- Summary

Background: generalised myasthenia gravis (gMG)

Causes of myasthenia gravis:

- An autoimmune disorder caused by antibody-mediated destruction of the neuromuscular junction which impairs neuromuscular transmission and causes muscle weakness and fatigue
 - ↳ When muscle groups other than eye muscles affected, the condition is known as generalised MG (gMG)

Epidemiology

- MG affects about 15 in every 100,000 people in the UK → Around 80% progress to gMG
- About 80 to 90% of people with gMG have detectable antibodies against AChR; estimated 3% have antibodies against MuSK
- More common in women; in women incidence peaks between 30 and 50 and in men increases with age
- Around 15% people with gMG are refractory to standard therapy

Symptoms and prognosis of gMG

- Symptoms: difficulties with swallowing, vision, speech, breathing, mobility, and persistent fatigue, may relapse and remit over time
- Up to 20% of people with gMG experience a myasthenic crisis at least once, where muscles that control breathing affected, which requires intensive care support and is main cause of MG-related deaths

Rozanolixizumab (RYSTIGGO®), UCB)

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Marketing authorisation | <ul style="list-style-type: none"> • Rozanolixizumab is indicated as an add-on to standard therapy for the treatment of generalised myasthenia gravis (gMG) in adult patients who are anti-AChR or anti-MuSK antibody positive • Licensed dose: ~7mg/kg • Date of MHRA approval: 7 March 2024 |
| Administration | <ul style="list-style-type: none"> • Subcutaneous infusion once-weekly for 6 weeks (1 treatment cycle*), based on weight |
| Price | <ul style="list-style-type: none"> • List price: £31.93 per mg • Average cost of £107,285 for a 6-week treatment cycle • There is a confidential patient access scheme for rozanolixizumab |

*1 dose per week for 6 weeks, further treatment cycles dependent on clinical evaluation and vary by patient

Note: In this appraisal, rozanolixizumab is being considered for treating *refractory* gMG in adult patients who are anti-AChR or anti-MuSK antibody positive

Link to [Treatment pathway](#)

History of this appraisal



Note: Today's presentation shows some of the committee's conclusions and preferred modelling assumptions from the ACM2 discussion. If rozanolixizumab is not recommended following this ACM, stakeholders will have the opportunity to comment on the committee conclusions during the draft guidance consultation.

Summary of committee conclusions after ACM2 (1/2)

| Key issue | Committee preferences/conclusions on key issues discussed at ACM2 | Further discussion needed? |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Treatment response rates. (After ACM1 company included MSE to represent continued response state) | <ul style="list-style-type: none"> • Committee considered MSE to be clinically relevant but could not conclude on the appropriateness of the modelling of MSE • Committee noted uncertainty around using expert elicitation rather than empirical evidence to inform: <ul style="list-style-type: none"> ▪ MSE for IVIg, PLEX and the standard care basket ▪ the loss of response substate for all patients | Yes |
| Long-term treatment effect | Final results from MG0007 provided useful evidence of rozanolixizumab's long-term effectiveness, although this is uncertain because of the lack of a comparator arm and uncertainty around how MSE was reported. | Yes |
| Subsequent treatments (not included in ACM1 model) | Committee noted there was uncertainty about the most appropriate approach to model subsequent treatments. Committee noted that assumptions related to subsequent treatments had a large impact on the ICER. | Yes |

Summary of committee conclusions after ACM2 (2/2)

| Key issue | Committee conclusion | Further discussion needed? |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Relevant comparator (see link for recap on EAMS) | Basket of standard care (excluding rituximab because used earlier in treatment pathway) with proportions informed by full EAMS cohort (n=48) rather than company's revised EAMS cohort (n=37). | No |
| Response assessment timepoint | A response assessment timepoint of 3 weeks reflected NHS practice for IVIg and PLEX, but an assessment timepoint of 6 weeks was appropriate for rozanolixizumab. | No |
| Improved ITCs requested at ACM1 | Bivariate NMA results acceptable for decision making, but not adjusting for placebo response added considerable uncertainty to the estimates. | No |
| Utility values | Take account of any corticosteroid-sparing benefit qualitatively in its decision making rather than applying a utility decrement for corticosteroids. | No |
| Corticosteroid management | Corticosteroid costs informed by Lee et al. and applied equally for rozanolixizumab, IVIg and PLEX in the economic model was appropriate. | No |
| Treatment costs for IVIg and PLEX | It was appropriate to apply IVIg and PLEX costs every 4 weeks and to include administration costs for PLEX and IVIg. | No |

Clarification sought from company after ACM2

Following ACM2, committee sought clarification from the company on the following issues:

- The transparency and executability of the model
- Detail and scenario analyses about the distribution of MSE events among patients and cycles
- Effect of exacerbation on time on treatment
- Modelling exacerbations and myasthenic crisis

Remaining issues for discussion

| Issue | ICER impact |
|-------------------------------------------------------------|-------------|
| Modelling treatment responder substates | Unknown |
| Modelling subsequent treatments | Large |
| Exacerbation and myasthenic crisis | Large |
| Plausibility of time on treatment estimates | Unknown |

Rozanolixizumab for treating antibody-positive generalised myasthenia gravis

- Recap
- ✓ **Key issues**
- Other considerations
- Summary

Overview of company's model

- Response rate informed by bivariate NMA
- Responders separate into 1 of 3 response subgroups at response assessment timepoint but cannot move between response substates
- Company changed its definition of continued response to MSE (MG-ADL 0 or 1) after ACM1

Continued response

Model at ACM1: drop of ≥ 2 points in MG-ADL from baseline, and ongoing improvement (≥ 2 points)

Model at ACM2: patients have reached MSE (MG-ADL score of 0 or 1 – free/nearly free of symptoms)

Stable response

Model at ACM1: drop of ≥ 2 points in MG-ADL from baseline, no ongoing improvement (≥ 2 points)

Model at ACM2: proportion = 1 minus the other 2 states

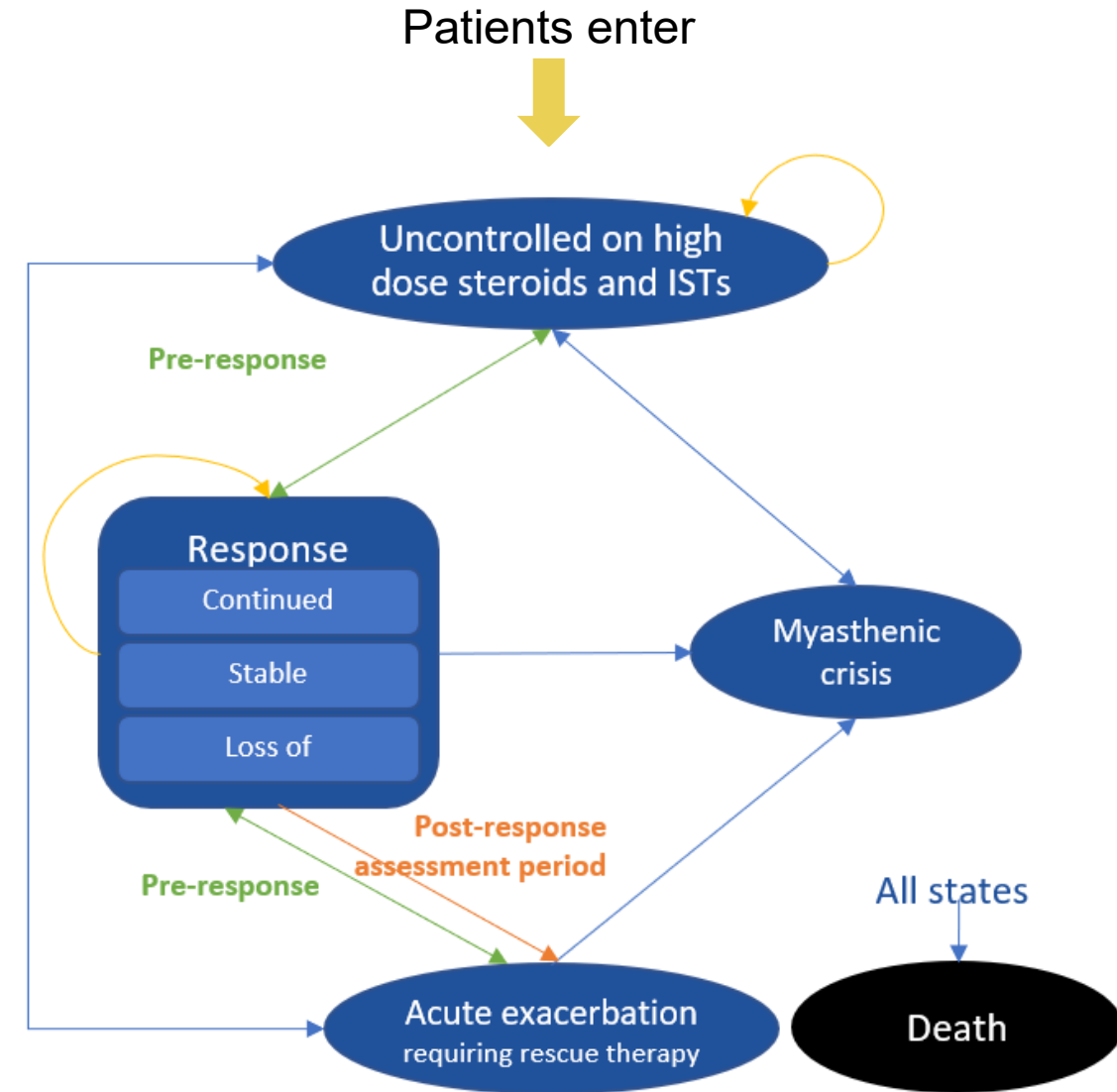
Loss of response

Model at ACM1: drop of ≥ 2 in MG-ADL from baseline, and a worsening in score until it returns to baseline

Model at ACM2: no change (5% in all treatment arms based on expert opinion)

NICE

Link to [use of MSE in model](#)



Abbreviations: ACM, appraisal committee meeting; IST, immunosuppressant; MG-ADL, myasthenia gravis activities of daily living; MSE, minimum symptom expression; NMA, network meta-analysis

Key issue: Modelling treatment responder substates (1/3)

Background:

- Using MSE to inform continued response utilises data from MycarinG (MG003) and MG0007 for rozanolixizumab and SoC only (NSISTs and CSs) but requires expert elicitation for IVIg and PLEX

Company base case response distributions

| Treatment | Continued response | Loss of response | Stable response | Source for proportion in continued response |
|----------------------------------------------------|--------------------|------------------|-----------------|----------------------------------------------------------------------------------------------|
| Rozanolixizumab | ████ | ████ | ████ | MSE rate for rozanolixizumab from MycarinG and MG0007 |
| IVIg | ████ | ████ | ████ | MSE rate estimated by expert elicitation |
| PLEX | ████ | ████ | ████ | MSE rate estimated by expert elicitation |
| Standard care basket (revised EAMS proportions) | ████ | ████ | ████ | Weighted average of placebo MSE data from MycarinG and IVIg and PLEX from expert elicitation |

Committee discussion at ACM2:

- Agreed that MSE is clinically relevant but could not conclude on appropriateness of MSE to inform continued response health state (due to lack of clarity of the data submitted by company)
- Model assumes that people stay in continued response unless they experience an exacerbation, but this is not based on empirical evidence
- Noted uncertainty around using expert elicitation, rather than empirical evidence, to inform MSE for IVIg, PLEX and the standard care basket, and to inform loss of response rate for all treatments

Key issue: Modelling treatment responder substates (2/3)

Committee requests for clarification following ACM2:

- Requested further analyses from company including:
 - a) Details about the distribution of MSE events among people having rozanolixizumab and treatment cycles
 - b) Evidence to justify the assumption that, of the people who respond, the proportion of MSE responders is greater in the rozanolixizumab arm than other treatment arms
 - c) Scenario analyses varying the proportion of responders reaching MSE and assuming the same proportion of responders in each treatment arm will have this quality of response

Company response to request for clarification:

- Provided [distribution of MSE rates for cycle 1 responders](#) and [for all participants](#) up to cycle 13 from MG0007
- Provided requested scenario analyses
- Considers proportion of MSE responders greater in rozanolixizumab arm than SoC basket arm based on:
 - a) Structured clinical expert elicitation exercise where MSE estimates provided for IVIg, PLEX and SoC (CSs and NSISTs) were lower compared with observed rozanolixizumab MSE rates
 - b) Change from baseline in MG-ADL scores statistically significant for rozanolixizumab versus placebo (proxy for SoC only), and NMA results numerically higher for rozanolixizumab than IVIg or PLEX
 - c) In MycarinG, the response rate for rozanolixizumab arm was statistically significantly higher than placebo arm (25% vs 3%)


Distribution of MSE rates across cycles

Proportion of responders having MSE is consistent across cycles but sample size reduced in later cycles

MSE (MG-ADL 0-1) rates in rozanolixizumab ~7mg/kg arm: Cycle 1 MG-ADL responders* vs all participants

| Symptom-driven cycle number | MSE among responders at Day 43 of Cycle 1 (Safety set) n/ Nsub (%) | MSE among all participants (Safety Set) n/ Nsub (%) |
|-----------------------------|-----------------------------------------------------------------------|--------------------------------------------------------|
| Cycle 1 | N/A | |
| Cycle 2 | | |
| Cycle 3 | | |
| Cycle 4 | | |
| Cycle 5 | | |
| Cycle 6 | | |
| Cycle 7 | | |
| Cycle 8 | | |
| Cycle 9 | | |
| Cycle 10 | | |
| Cycle 11 | | |
| Cycle 12 | | |
| Cycle 13 | | |

*MG-ADL responder is defined as a participant with a 2.0-point improvement in MG-ADL Score from Baseline at Day 43 of Cycle 1

 Why did some people who were not MG-ADL responders in cycle 1 appear to have MSE in subsequent cycles?

Key issue: Modelling treatment responder substates (3/3)

EAG:

- MSE data provided by the company indicates that MSE rates were similar whether response was achieved during the first cycle or not
- The range of response rates across cycles appears broad but this is likely due to small sample sizes (N sample sizes appear from Cycle 8 onwards). Response rates increase consistently across the incremental MG-ADL response thresholds.
- Company's rationale for the proportion of MSE responders being greater in patients receiving rozanolixizumab relies on expert elicitation and assumptions around clinical plausibility. The EAG cannot identify stronger evidence, but further expert opinion may help validate clinical plausibility of company's assumptions
- It is unclear why some people who did not have a response in cycle 1 had MSE in subsequent cycles



- Is it appropriate to use MSE to inform continued response?
- Is it appropriate to assume that the proportion of responders who have MSE is greater for rozanolixizumab than IVIg or PLEX?
- If so, is it appropriate to use company's expert elicitation to inform MSE for IVIg and PLEX?
- Is it appropriate to assume that people who have a response remain in their response substate (continued, stable or loss of response) unless they experience an exacerbation or myasthenic crisis?
- Is it appropriate to use company's expert elicitation to inform loss of response for all treatments?

Key issue: Modelling subsequent treatments (1/2)

Company applies same approach to treatment arms, whereas EAG prefers different approach for each arm

| | Company preference | EAG preference |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard care basket arm: subsequent treatments | Apply subsequent treatment proportions from Delphi panel for IVIg and PLEX to revised EAMS proportions (included re-treatment) <ul style="list-style-type: none"> • IVIg: 14.05% • PLEX: 35.73% • SoC (CS/NSISTs): 50.22% | Apply treatment proportions from Delphi panel for IVIg and PLEX to unrevised EAMS proportions (excluded retreatment): <ul style="list-style-type: none"> • IVIg: 8.2% • PLEX: 27.16% • SoC (CS/NSISTs): 64.64% |
| Rozanolixizumab arm: subsequent treatment proportions | Same proportions as standard care basket: Over time the mix of subsequent treatments will be the same across treatment arms <ul style="list-style-type: none"> • IVIg: 14.05% • PLEX: 35.73% • SoC (CS/NSISTs): 50.22% | Use unrevised EAMS proportions: company estimates do not align with expert assumptions after Roza <ul style="list-style-type: none"> • IVIg: 43.8% • PLEX: 14.6% • SoC (CS/NSISTs): 41.6% |

Mean of subsequent treatment proportions from Delphi panel:

| Subs Tx after IVIg | Mean |
|------------------------|------|
| IVIg + SoC retreatment | 6% |
| PLEX + SoC | 62% |
| SoC only | 32% |
| Subs Tx after PLEX | |
| IVIg + SoC | 56% |
| PLEX + SoC retreatment | 4% |
| SoC only | 40% |
| Subs Tx after Roza* | |
| IVIg + SoC | 44% |
| PLEX+ SoC | 29% |
| SoC only | 24% |

*Based on subsequent treatment proportions for zilucoplan but used by EAG to validate proportions for rozanolixizumab

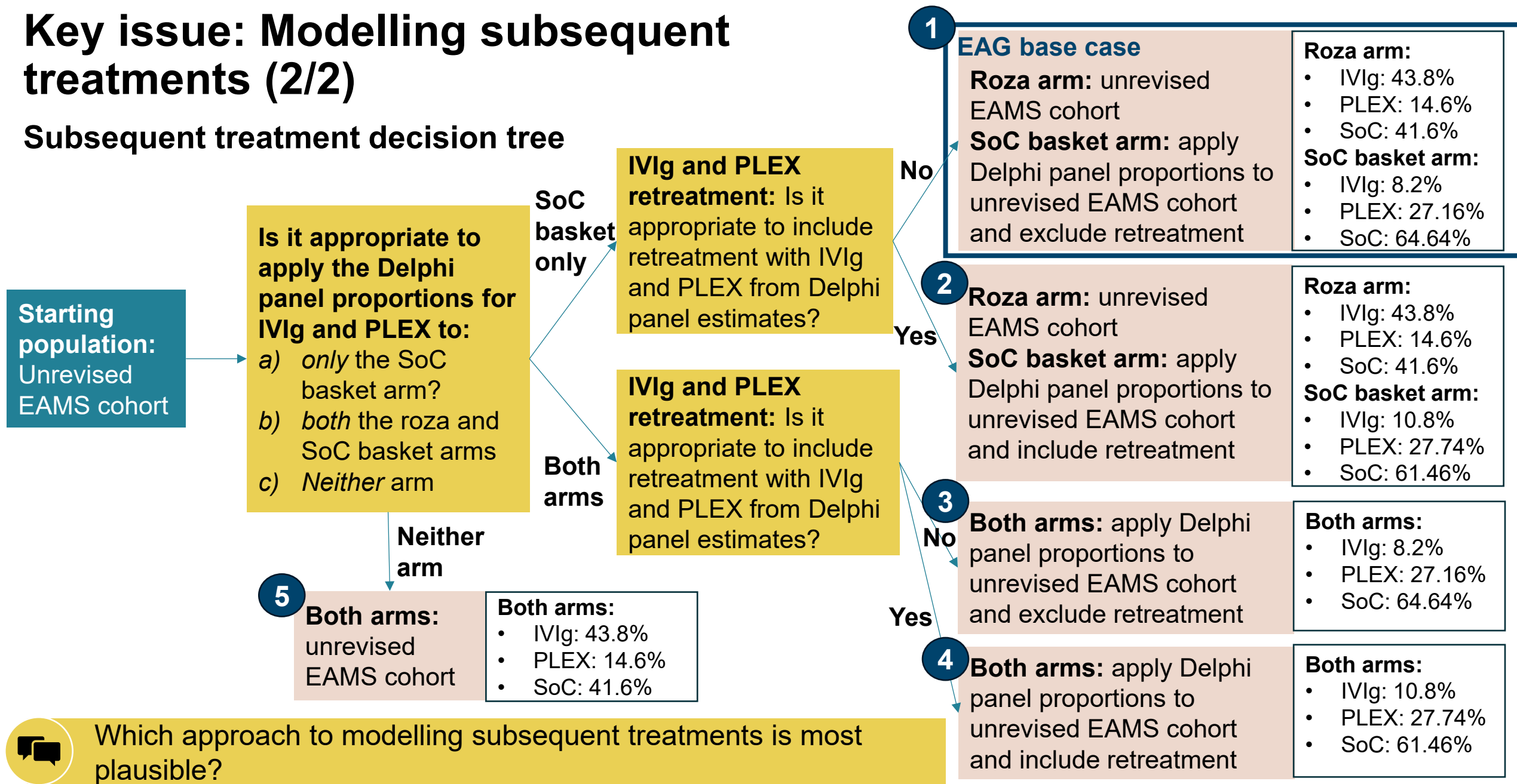
Note: wide range in clinical expert estimates

Are the mean subsequent treatment proportions from the Delphi panel plausible?

Link to [supplementary material](#)

Key issue: Modelling subsequent treatments (2/2)

Subsequent treatment decision tree



Which approach to modelling subsequent treatments is most plausible?

Key issue: Exacerbation and myasthenic crisis (1/2) [Link to exacerbation and crisis costs](#)

Background:

- Higher cost associated with treating an exacerbation for standard care basket than rozanolixizumab
- Lower cost associated with treating a crisis for standard care basket than rozanolixizumab
- Rates of exacerbation and myasthenic crisis applied equally across treatment arms and response substates
- After ACM2, committee requested clarification from company regarding exacerbation and crisis costs

Company response to request for further analyses

- Clarified that the LoS for exacerbation and myasthenic crisis is set at 28 days in all treatment arms (in line with committee preferred assumptions), and that any errors have been corrected
- Difference in cost of exacerbation or myasthenic crisis between treatment arms driven by differing use of IVIg and PLEX as acute rescue treatment based on clinical advice:

Exacerbation and myasthenic crisis acute treatment proportions by index treatment

| | Index treatment | | |
|------------------------------|-----------------------------|-----------|-----------|
| | Rozanolixizumab or SoC only | IVIg | PLEX |
| Exacerbation acute treatment | 73% IVIg; 27% PLEX | 100% PLEX | 100% IVIg |
| Crisis acute treatment | 5% IVIg; 95% PLEX | 100% PLEX | 100% IVIg |

Exacerbation and myasthenic crisis costs by treatment arm

| | Rozanolixizumab | Standard care basket (company) | Standard care basket (EAG) |
|-----------------------|-----------------|--------------------------------|----------------------------|
| Cost per exacerbation | £14,540 | £16,906 | £16,368 |
| Cost per crisis | £41,550 | £40,560 | £40,785 |

Key issue: Exacerbation and myasthenic crisis (2/2)

EAG:

- Unsure how company calculated proportions receiving IVIg and PLEX following rozanolixizumab or SoC only using Phillips et al. (2022) but these proportions have not changed since previous ACMs
- Considers company justifications and calculations appropriate.
- Clinical experts did not highlight concerns with proportions receiving IVIg or PLEX as rescue treatment for exacerbation or crisis.



Is it appropriate to assume a lower cost associated with an exacerbation for people in the rozanolixizumab arm than in the standard care basket arm and a higher cost associated with a myasthenic crisis?

Key issue: Plausibility of time on treatment estimates

Background:

- Model assumes that patients with continued response and stable response have same risk of exacerbation
- Committee requested scenario analyses exploring a higher probability of exacerbation for people in stable response than in the MSE/continued response state and an assessment of how this affected time on treatment

Scenario analyses submitted by company

| Transition probability from stable response to exacerbation (% increase from base case) | Time on treatment (months) | | | |
|-----------------------------------------------------------------------------------------|----------------------------|------|------|---------------------------------------|
| | Rozanolixi zumab | IVIg | PLEX | SoC basket (revised EAMS proportions) |
| Base case: 0.009 | ████ | ████ | ████ | ████ |
| 0.01 (+10%) | ████ | ████ | ████ | ████ |
| 0.011 (+20%) | ████ | ████ | ████ | ████ |
| 0.012 (+30%) | ████ | ████ | ████ | ████ |
| 0.013 (+40%) | ████ | ████ | ████ | ████ |
| 0.014 (+50%) | ████ | ████ | ████ | ████ |
| 0.015 (+60%) | ████ | ████ | ████ | ████ |
| 0.016 (+70%) | ████ | ████ | ████ | ████ |
| 0.017 (+80%) | ████ | ████ | ████ | ████ |
| 0.018 (+90%) | ████ | ████ | ████ | ████ |
| 0.019 (+100%) | ████ | ████ | ████ | ████ |

EAG:

- Uncertain if scenarios reasonable range
- Clinical expert advice regarding increased risk of exacerbation for patients in stable response compared with MSE would be beneficial



- Is it reasonable to assume that people receiving rozanolixizumab spend ~50% longer on treatment than people receiving other treatments?
- Is the assumption of equal exacerbation risk for stable and continued response states appropriate?

Link for [results shown by % increase in annual exacerbation rate of 0.244](#)

Abbreviations: ACM, appraisal committee meeting; EAMS, early access to medicines scheme; IVIg, intravenous immunoglobulin; MSE, minimum symptom expression; PLEX, plasma exchange; SoC, standard of care

Rozanolixizumab for treating antibody-positive generalised myasthenia gravis

- Recap
- Key issues
- ✓ **Other considerations**
- Summary

Equality considerations

At ACM2, the committee:

- Considered that gMG may have a different burden on women than men (more prevalent and women may be younger at onset and have higher mortality)
- Noted the variation in access to IVIg and PLEX across the NHS
- Noted comments from patient and clinical experts that to have treatment with IVIg and PLEX people have to live near to a hospital or have the means to travel regularly
- Heard from the company that it has a home care service that helps people administer rozanolixizumab themselves at home
- Noted that pregnancy may contraindicate some types of treatment and heard from clinical experts that the improved disease control with rozanolixizumab may help people become healthy enough to be able to start a family



Are there any other equality or health inequality considerations for decision making?

Uncaptured benefits

At ACM2, the committee concluded that some benefits of rozanolixizumab may not have been captured in the QALY calculation, including:

- As rozanolixizumab is a short-duration subcutaneous infusion, it could be more convenient and could improve adherence compared with IVIg or PLEX, which are time-consuming and require regular hospital stay
- People who have rozanolixizumab may be able to reduce their corticosteroid use, which could lead to fewer corticosteroid-related adverse effects



Are there any other uncaptured benefits?

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Summary of remaining issues and questions for committee

| Issue | Questions for committee | ICER impact |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Modelling treatment responder substates | <ul style="list-style-type: none"> • Is it appropriate to use MSE to inform continued response? • Is it appropriate to assume that the proportion of responders who have MSE is greater for rozanolixizumab than IVIg or PLEX? • Is it appropriate to use expert elicitation to inform MSE for IVIg and PLEX? • Is it appropriate to assume that people who have a response remain in their response substate (continued, stable or loss of response) unless they experience an exacerbation or myasthenic crisis? • Is it appropriate to use expert elicitation to inform loss of response for all treatments? | Unknown |
| Subsequent treatments | <ul style="list-style-type: none"> • Are the mean subsequent treatment proportions from the Delphi panel plausible? • Which arms should the Delphi panel proportions be applied to? • Is it appropriate to include IVIg and PLEX retreatment from Delphi panel? • Which approach to modelling subsequent treatments is most plausible? | Large |
| Modelling exacerbations and myasthenic crisis | <ul style="list-style-type: none"> • Is it appropriate to assume a lower cost associated with an exacerbation for people in the rozanolixizumab arm than in the standard care basket arm and a higher cost associated with a myasthenic crisis? | Large |
| Plausibility of time on treatment estimates | <ul style="list-style-type: none"> • Is it reasonable to assume that people receiving rozanolixizumab spend ~50% longer on treatment than people receiving other treatments? • Is the assumption of equal exacerbation risk for stable and continued response states appropriate? | Unknown |

Company, EAG and committee preferences after ACM2 (1/2)

| Assumption | Company base case | EAG base case | Committee preference |
|---------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Relevant comparator | IVIg and PLEX | Standard care basket informed by unrevised EAMS cohort | Standard care basket informed by unrevised EAMS cohort |
| Source of data for response | Bivariate NMA | Bivariate NMA | Bivariate NMA |
| Response assessment time points | 6 weeks for roza; 12 weeks for SoC basket | 6 weeks for roza; 3 weeks for SoC basket | 6 weeks for roza; 3 weeks for SoC basket |
| IVIg and PLEX admin costs frequency | Both every 4 weeks PLEX cost set to £0 in model | Both every 4 weeks PLEX cost of £2,482.50 per model cycle included | Both every 4 weeks PLEX cost of £2,482.50 per model cycle included |
| MSE proportion used to inform 'uncontrolled off initial treatment' health state | Standard care basket | Use standard care only (CSs and NSISTs only) MSE proportion | Use standard care only (CSs and NSISTs only) MSE proportion |
| Corticosteroid disutility | Included | Excluded | Exclude |
| Corticosteroid resource use costs | Costs from Stirnadel-Farrant et al. (2023) | Costs from Lee et al. (2018) | Costs from Lee et al. (2018) |

Company, EAG and committee preferences after ACM2 (2/2)

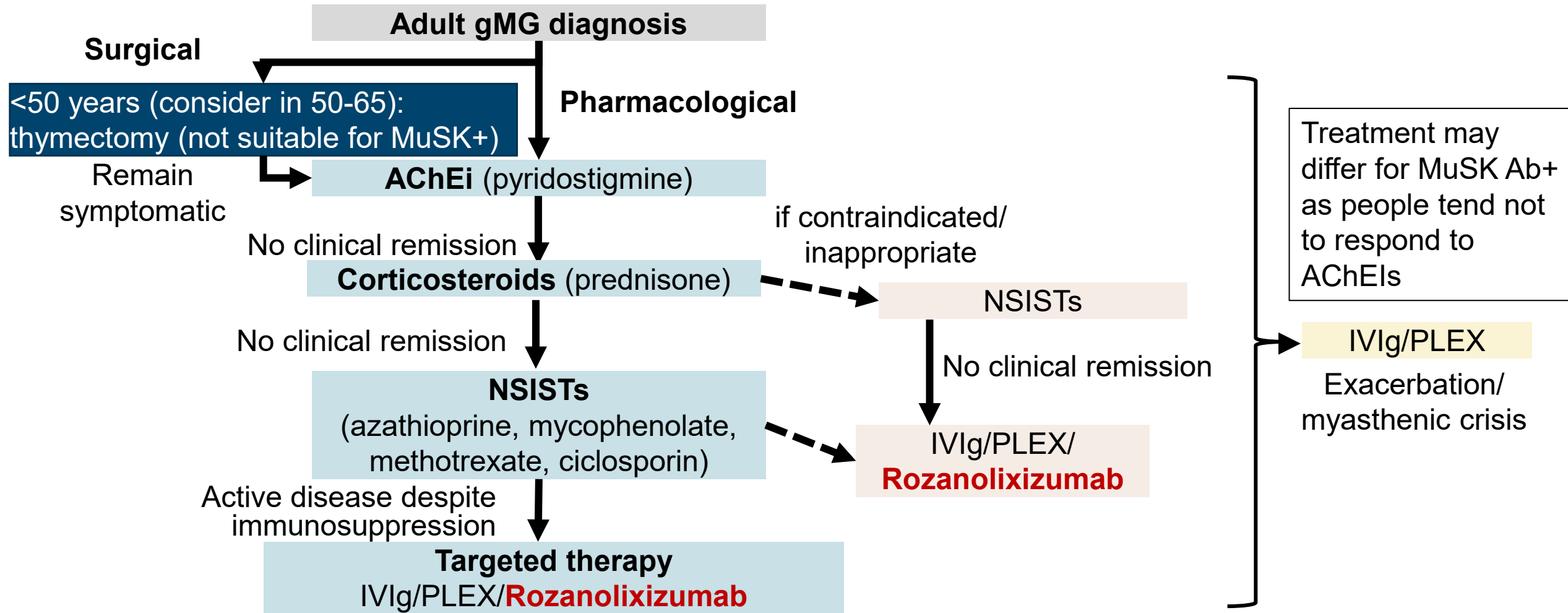
| Assumption | Company base case | EAG base case | Committee preference after ACM2 |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Modelling treatment response | <ul style="list-style-type: none"> MSE from MG0007 to inform continued response state for roza and SoC (CSs and NSISTs). Expert elicitation to inform MSE for IVIg and PLEX | <ul style="list-style-type: none"> Same as company | For discussion |
| Subsequent treatments | Both treatment arms: Delphi panel proportions applied to revised EAMS cohort (including IVIg and PLEX retreatment) | <ul style="list-style-type: none"> Roza: Unrevised EAMS cohort proportions SoC basket: Delphi panel proportions for IVIg and PLEX applied to unrevised EAMS cohort proportions (excluding IVIg and PLEX retreatment) | For discussion |
| Modelling exacerbation and myasthenic crisis | Use different proportions of IVIg or PLEX as acute treatment in each arm based on clinical advice | Same as company | For discussion |

Cost-effectiveness results

All ICERs are reported in PART 2 slides
because they include confidential
comparator PAS discounts

Supplementary appendix

Treatment pathway for generalised myasthenia gravis



Company proposed positioning: Rozanolixizumab as an add-on to standard care (corticosteroids and NSISTs) for refractory AChR+ or MuSK+ gMG

NICE Abbreviations: AChEi, acetyl-cholinesterase inhibitor; gMG, generalised myasthenia gravis; IVIg, intravenous immunoglobulin; MuSK, muscle specific tyrosine kinase; NSIST, non-steroidal immunosuppressive therapy; PLEX, plasma exchange; SC, standard care

Revised vs unrevised EAMS basket

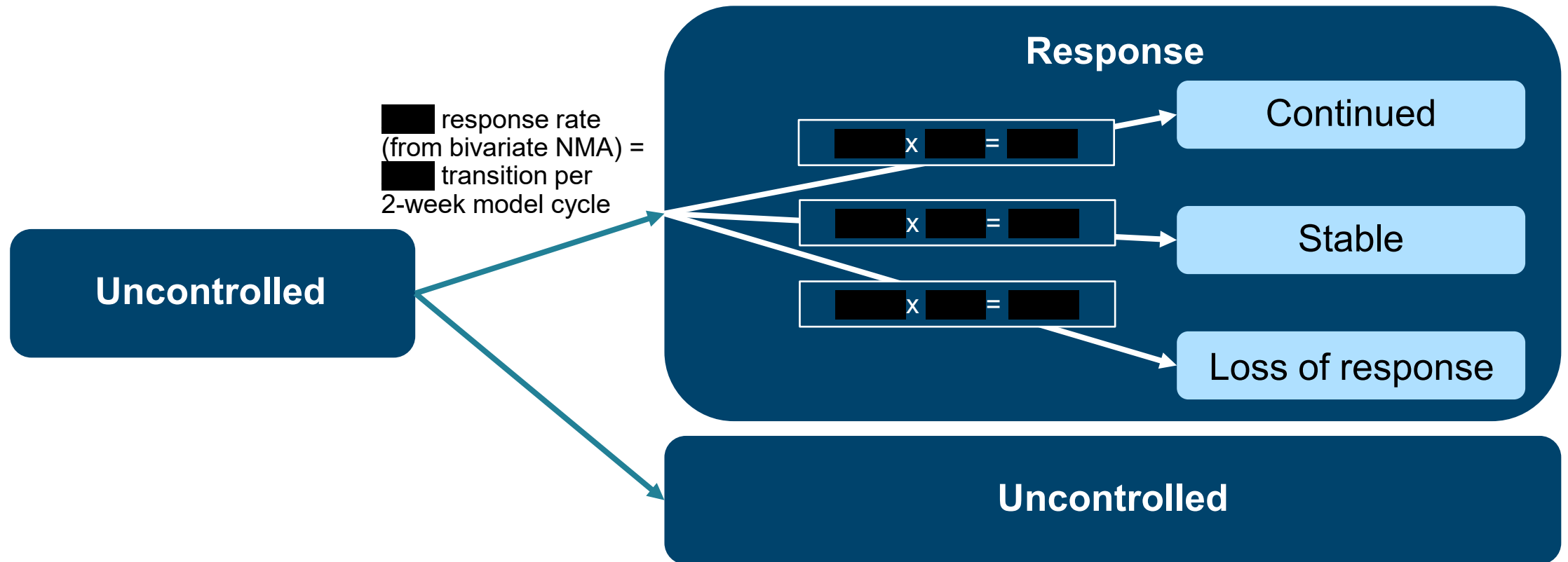
[Back to main presentation](#)

The standard care basket uses data on the proportion having treatments from the efgartigimod EAMS

| | Unrevised EAMS population | Revised EAMS population |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N | 48 | 37 |
| Definition | All people with AChR antibody-positive gMG who were treated with efgartigimod in the EAMS | Removes people from the EAMS cohort whose condition was not considered refractory, who had no treatment, and who were on corticosteroids only. Added 2 people who were on corticosteroids only. |
| Proportion of treatments at the time of starting efgartigimod | <ul style="list-style-type: none">• IVIg (and CS and NSISTs): 43.8%• PLEX (and CS and NSISTs): 14.6%• SoC (CS and NSISTs): 41.6% | <ul style="list-style-type: none">• IVIg (and CS and NSISTs): 56.7%• PLEX (and CS and NSISTs): 18.9%• SoC (CS and NSISTs): 24.4% |
| Preference | EAG and committee preference | Company preference |

Use of MSE in the model

Distribution of people whose myasthenia gravis responds to first-line treatment with rozanolixizumab, of responders, ██████ had MSE (based on data from MycarinG and MG0007) and 5% were assumed would lose response, the remaining responders had a stable response.



Company response: updated model efficacy assumptions and inputs

Bivariate NMA informed updated company model

Primary response rate and response assessment timepoint

| Treatment | Response rate used in the model | Response assessment timepoint used in the model (weeks) | Source |
|-----------------------|---------------------------------|---------------------------------------------------------|---------------|
| Rozanolixizumab | ████ | 6 | Bivariate NMA |
| IVIg | ████ | 3 | Bivariate NMA |
| PLEX | ████ | 3 | Bivariate NMA |
| Standard care basket* | ████ | 12 | Bivariate NMA |

Response distribution

| Treatment | Continued response | Loss of response | Stable response | Source for proportion in continued response |
|-----------------------|--------------------|------------------|-----------------|----------------------------------------------------------------------------------------------|
| Rozanolixizumab | ████ | ████ | ████ | MSE rate for rozanolixizumab from MycarinG and MG0007 |
| IVIg | ████ | ████ | ████ | MSE rate estimated by expert elicitation |
| PLEX | ████ | ████ | ████ | MSE rate estimated by expert elicitation |
| Standard care basket* | ████ | ████ | ████ | Weighted average of placebo MSE data from MycarinG and IVIg and PLEX from expert elicitation |

Treatment-specific MG-ADL score change from baseline (source: bivariate NMA)

| Treatment | Continued response | Loss of response | Stable response |
|-----------------------|--------------------|------------------|-----------------|
| Rozanolixizumab | ████ | ████ | ████ |
| IVIg | ████ | ████ | ████ |
| PLEX | ████ | ████ | ████ |
| Standard care basket* | ████ | ████ | ████ |

*Using revised EAMS population; abbreviations: IVIg, intravenous immunoglobulin; MG-ADL, myasthenia gravis activities of daily living; MSE, minimum symptom expression; NMA, network meta-analysis; PLEX, plasma exchange

Distribution of MSE rates (1/2)

Link to [main slides](#)

MG-ADL MSE Rate by Cycle - Subsequent MSE Rates Among Responders at Day 43 of Cycle 1 (Safety Set)

| Symptom-driven cycle number | RLZ ~7mg/kg n/ Nsub (%) MG-ADL MSE (0-1) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-2) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-3) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-4) |
|-----------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Cycle 2 | | | | |
| Cycle 3 | | | | |
| Cycle 4 | | | | |
| Cycle 5 | | | | |
| Cycle 6 | | | | |
| Cycle 7 | | | | |
| Cycle 8 | | | | |
| Cycle 9 | | | | |
| Cycle 10 | | | | |
| Cycle 11 | | | | |
| Cycle 12 | | | | |
| Cycle 13 | | | | |

Distribution of MSE rates (2/2)

MG-ADL MSE Rate by Cycle – All participants (Safety Set)

| Symptom-driven cycle number | RLZ ~7mg/kg n/ Nsub (%) MG-ADL MSE (0-1) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-2) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-3) | RLZ ~7mg/kg n/ Nsub (%) MG-ADL (0-4) |
|-----------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Cycle 1 | | | | |
| Cycle 2 | | | | |
| Cycle 3 | | | | |
| Cycle 4 | | | | |
| Cycle 5 | | | | |
| Cycle 6 | | | | |
| Cycle 7 | | | | |
| Cycle 8 | | | | |
| Cycle 9 | | | | |
| Cycle 10 | | | | |
| Cycle 11 | | | | |
| Cycle 12 | | | | |
| Cycle 13 | | | | |

Subsequent treatment proportions from Delphi panel

| Treatment | Expert 1 | Expert 2 | Expert 3 | Expert 4 | Expert 5 | Expert 6 | Expert 7 | Expert 8 | Expert 9 | Mean |
|------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Following failure on IVIg + SoC (no option of zilucoplan) | | | | | | | | | | |
| % IVIg + SoC retreatment | 0% | 0% | 0% | 33% | 0% | 21% | 0% | 0% | 0% | 6% |
| % PLEX +SoC | 25% | 0% | 100% | 33% | 84% | 43% | 89% | 80% | 100% | 62% |
| % SoC only | 75% | 100% | 0% | 33% | 16% | 36% | 11% | 20% | 0% | 32% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Following failure on PLEX + SoC (no option of zilucoplan) | | | | | | | | | | |
| % PLEX + SoC retreatment | 0% | 0% | 0% | 33% | 0% | 5% | 0% | 0% | 0% | 4% |
| % IVIg +SoC | 14% | 50% | 90% | 33% | 83% | 74% | 0% | 60% | 100% | 56% |
| % SoC only | 86% | 50% | 10% | 33% | 17% | 21% | 100% | 40% | 0% | 40% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Following failure on zilucoplan | | | | | | | | | | |
| % IVIg + SoC | 13% | 53% | 80% | 33% | 44% | 63% | 11% | 0% | 100% | 44% |
| % PLEX +SoC | 13% | 0% | 10% | 11% | 44% | 13% | 89% | 80% | 0% | 29% |
| % SoC only | 75% | 47% | 10% | 28% | 11% | 25% | 0% | 20% | 0% | 24% |
| % zilucoplan + SoC retreatment | 0% | 0% | 0% | 28% | 0% | 0% | 0% | 0% | 0% | 3% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Committee preferred approach to modelling subsequent treatments in ID4008 zilucoplan

| Subsequent treatments in zilucoplan arm | Subsequent treatments in standard basket arm |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use unrevised EAMS proportions: <ul style="list-style-type: none"> • IVIg: 43.8% • PLEX: 14.6% • SoC (CSs and NSISTs): 41.6% | Use unrevised EAMS proportions and apply equal switching from IVIg to PLEX (████) and vice versa: <ul style="list-style-type: none"> • IVIg: █████% • PLEX: █████% • SoC (CSs and NSISTs): █████% |

Abbreviations: CS, corticosteroid; EAMS, early access to medicines scheme; IVIg, intravenous immunoglobulin; NSISTs, non-steroidal immunosuppressants; PLEX, plasma exchange; SoC, standard of care

Breakdown of exacerbation costs

Link to [main slides](#)

Treatment arm (pre-exacerbation)

Treatment receive for exacerbation

% of each treatment for exacerbation

SoC basket (revised EAMS)
18.9% PLEX
56.7% IVIG
24.4% SoC

→ 100% IVIG
→ 100% PLEX
→ 73% IVIG/
27% PLEX*

SoC basket (revised EAMS)
36.7% PLEX
63.3% IVIG

Cost per exacerbation
£16,906

Roza

→ 73% IVIG/
27% PLEX*

27% PLEX
73% IVIG

Cost per exacerbation
£14,539

SoC basket (EAMS)
14.6% PLEX
43.8% IVIG
41.6% SoC

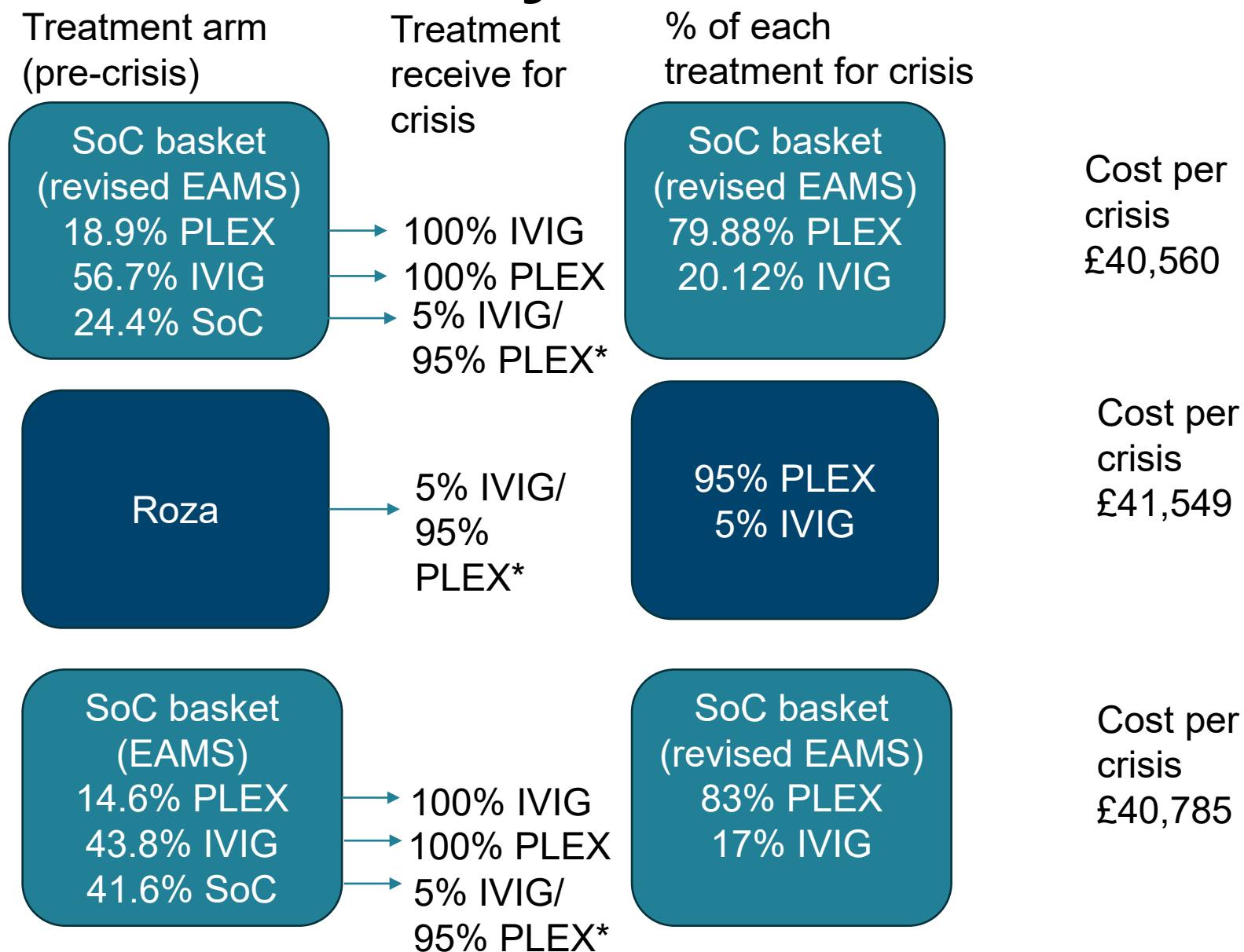
→ 100% IVIG
→ 100% PLEX
→ 73% IVIG/
27% PLEX*

SoC basket (EAMS)
55% PLEX
45% IVIG

Cost per exacerbation
£16,368

Breakdown of myasthenic crisis costs

Link to [main slides](#)



* Informed by Phillips et al, 2022; next treatment for people who have IVIg or PLEX as their pre-crisis treatment : clinical opinion

Key issue: Plausibility of time on treatment estimates

Background:

- Model assumes that patients with continued response and stable response have same risk of exacerbation
- Committee requested scenario analyses exploring a higher probability of exacerbation for people in stable response than in the MSE/continued response state and an assessment of how this affected time on treatment

Scenario analyses submitted by company

| Stable response substate annual exacerbation risk (% increase from base case) | Time on treatment (months) | | | |
|-------------------------------------------------------------------------------|----------------------------|------|------|---------------------------------------|
| | Rozanolixi zumab | IVIg | PLEX | SoC basket (revised EAMS proportions) |
| Base case: 0.244 | ████ | ████ | ████ | ████ |
| 0.268 (+10%) | ████ | ████ | ████ | ████ |
| 0.293 (+20%) | ████ | ████ | ████ | ████ |
| 0.317 (+30%) | ████ | ████ | ████ | ████ |
| 0.342 (+40%) | ████ | ████ | ████ | ████ |
| 0.366 (+50%) | ████ | ████ | ████ | ████ |
| 0.390 (+60%) | ████ | ████ | ████ | ████ |
| 0.415 (+70%) | ████ | ████ | ████ | ████ |
| 0.439 (+80%) | ████ | ████ | ████ | ████ |
| 0.464 (+90%) | ████ | ████ | ████ | ████ |
| 0.488 (+100%) | ████ | ████ | ████ | ████ |

EAG:

- Uncertain if scenarios reasonable range
- Clinical expert advice regarding increased risk of exacerbation for patients in stable response compared with MSE would be beneficial



Is it reasonable to assume that people receiving rozanolixizumab spend ~50% longer on treatment than people receiving other treatments?

- Is the assumption of equal exacerbation risk for stable and continued response states appropriate?

Abbreviations: ACM, appraisal committee meeting; EAMS, early access to medicines scheme; IVIg, intravenous immunoglobulin; MSE, minimum symptom expression; PLEX, plasma exchange; SoC, standard of care

Company response: long-term treatment effect

Company: final results from open-label extension study (MG0007) show consistent efficacy in AChR- and MuSK-positive generalised MG

ACM1 MG0007 (■■■■; ■■■■ ~7 mg/kg, ■■■■ ~10 mg/kg [unlicensed]); committee conclusion: some supporting evidence for rozanolixizumab's effectiveness

Company draft guidance response

- Final results (■■■■): meaningful improvements in each treatment cycle
- Responses (≥ 2 -point reduction in MG-ADL score) from day ■■■■ of each treatment cycle, with a median time to MG-ADL response of ■■■■ in the first ■■■■ 6-week treatment cycles; MG-ADL scores plateaued at around ■■■■ compared with baseline after repeated cycles ([MG0007 long-term results](#))

EAG comments

Data supports ongoing efficacy of rozanolixizumab; but limitations in study completion and discontinuation:

- ■■■■ participants in the 7 mg arm completed the study
- by cycle ■■■■, ■■■■ participants remained in the 7 mg arm for MSE data
- ■■■■ total participants completed the study
- ■■■■ discontinued for reasons listed as 'other' - not clearly explained
- important to understand subsequent treatments - gMG is chronic, rozanolixizumab is not curative

MG0007 efficacy outcomes

Change from baseline to day 43 in MG-ADL score during each treatment cycle



MG0007 long-term results

MG-ADL score stabilised at around -3 compared with baseline

