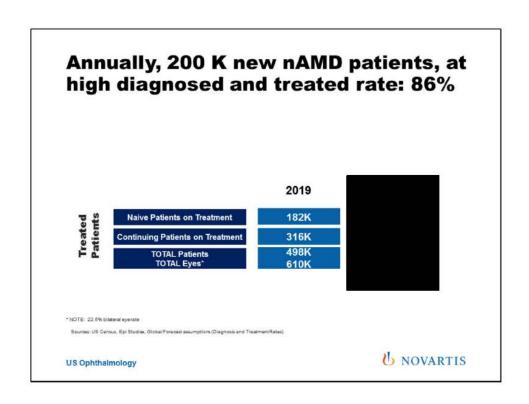
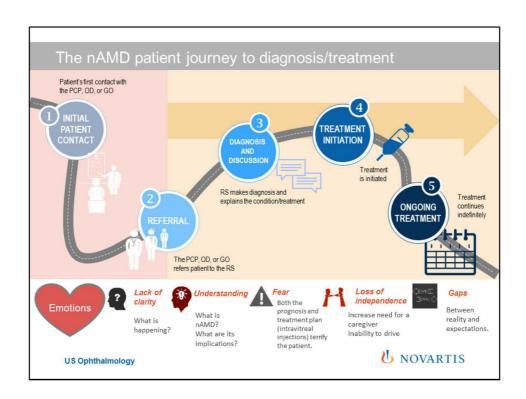


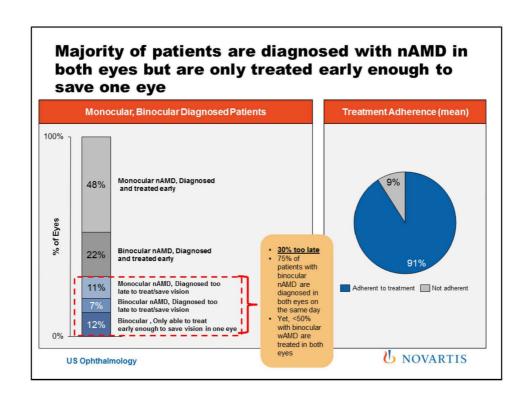


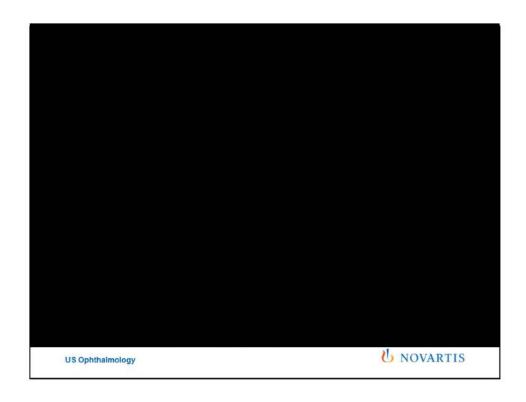
Notes:

*ONS5010: The first clinical study for ONS-5010 is being conducted outside of the U.S. and is designed to serve as the first of two adequate and well controlled studies for wet AMD. The U.S. portion of the second study is scheduled to begin in early 2019 upon the submission of an IND application. Oncobiologics' wet AMD clinical program was reviewed at a successful end of Phase II meeting held with the U.S. FDA conducted earlier in 2018. If the program is successful, it will support the Company's plans to submit for regulatory approval in multiple markets in 2020. The Company is developing ONS-5010 as an innovative therapy and not using the biosimilar drug development pathway. Previously, ONS-5010 met the primary and secondary endpoints in a 3-arm single-dose PK Phase I clinical trial. All of the PK endpoints met the bio equivalency criteria of the geometric mean ratios within 90% confidence interval of 80-125% when compared to both U.S. and EU sourced Avastin reference products (https://oncobiologics.com/programs/novel-therapeutics/)



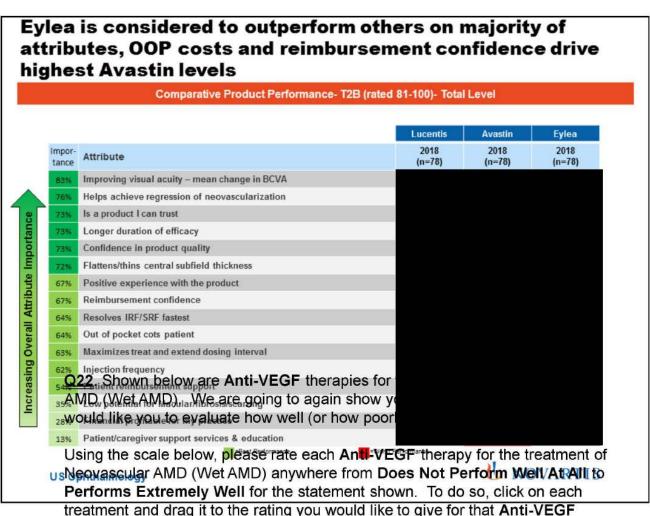




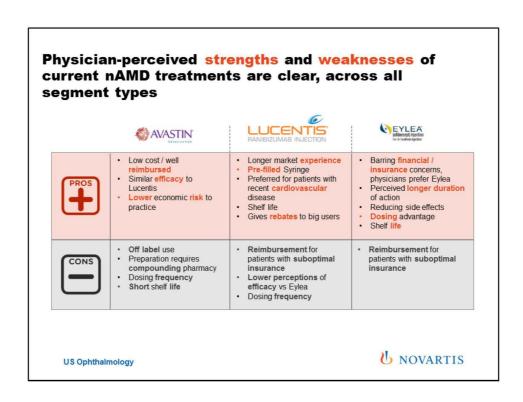


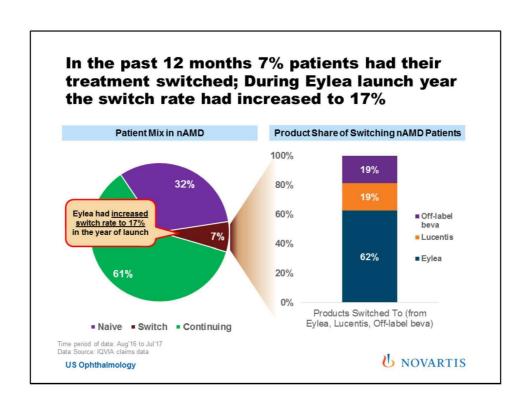


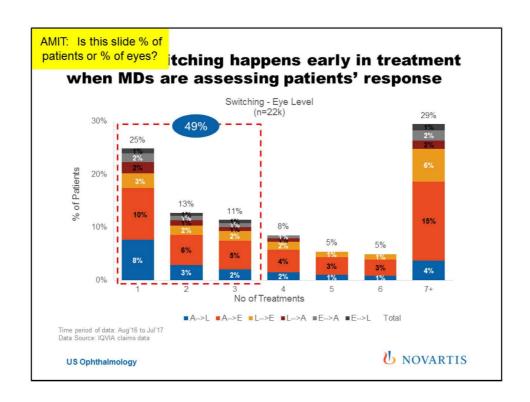


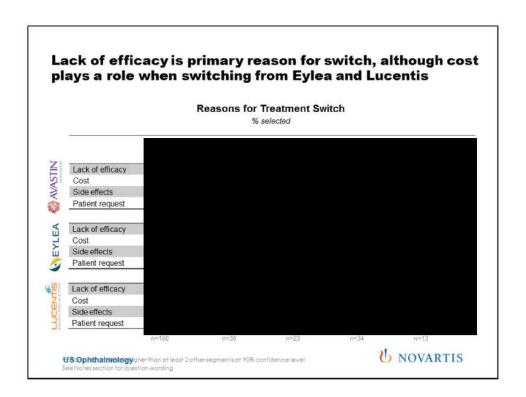


treatment and drag it to the rating you would like to give for that **Anti-VEGF** therapy for the treatment of Neovascular AMD (Wet AMD).

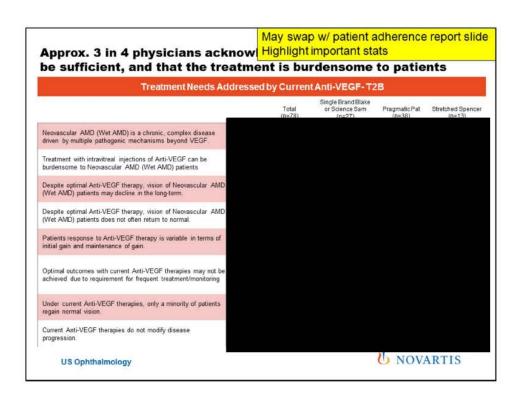




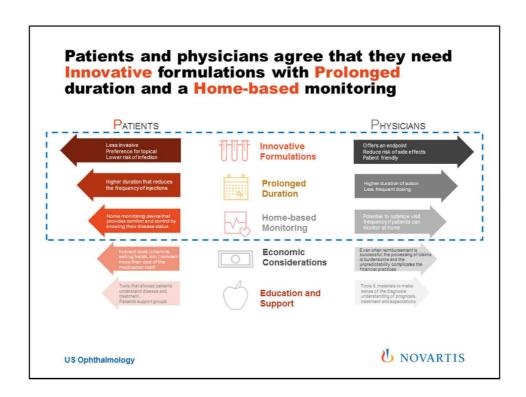


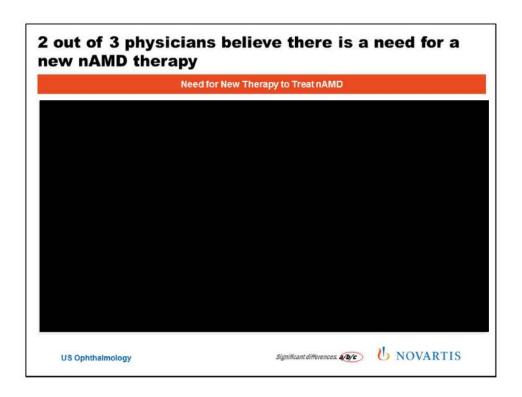


Q9. Again, please think of your wet AMD patients that you have initiated on each of the following agents, and then switched to a different anti-VEGF agent. On average, what % patients are switched for each of the following reasons?



Q26. We would now like to present you with a series of statements, can you please indicate your **level of agreement** with each of them, using a scale from 1 to 7, where 1 = 'Strongly Disagree' and 7 = 'Strongly Agree'? Single code per row.

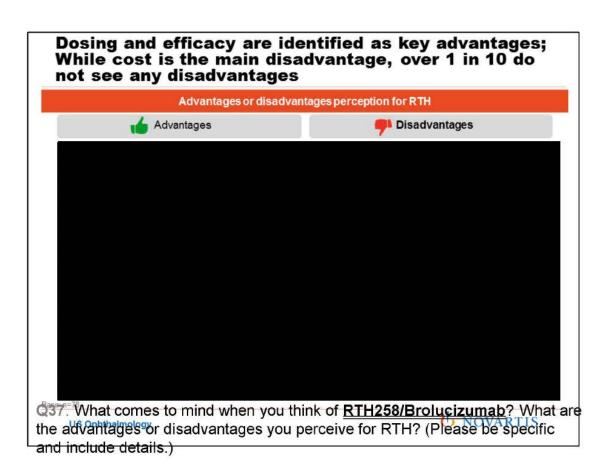




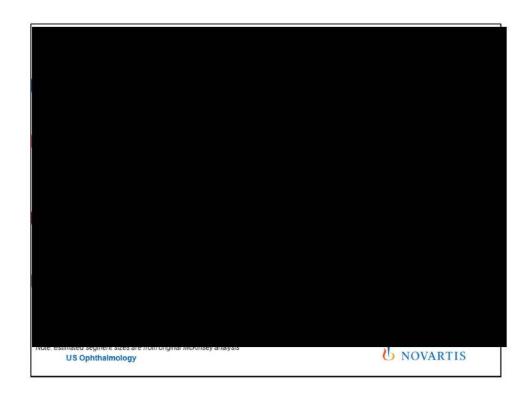
Q24. To what extent do you believe there is a need for a new therapy to treat Neovascular AMD (Wet AMD)? Please use a scale of 1 to 7 where 1 means "no need" and 7 means "major need".



Q36. And how you would describe your knowledge of these products?



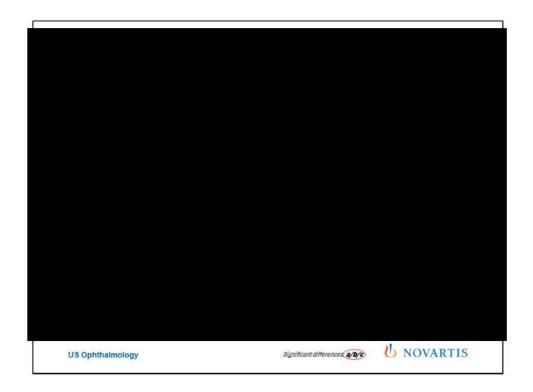




Regeneron v. Novartis, IPR2021-00816



Q38. Based on what you know / the information you have been shown, how likely are you to use RTH 258 / Brolucizumab as a treatment for Neovascular AMD (Wet AMD)? Single code per row

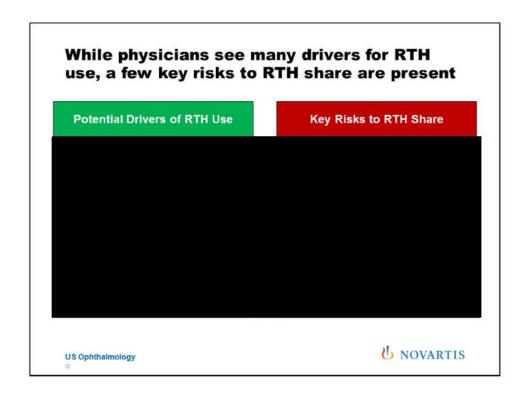


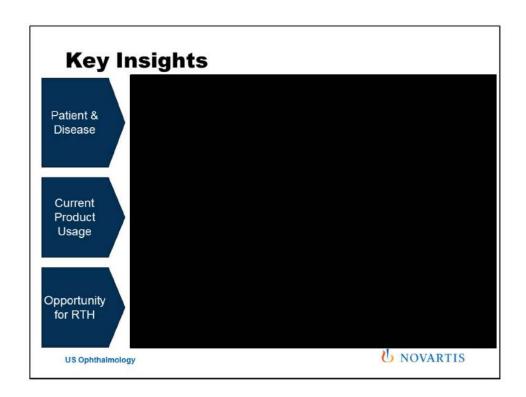
Q42. Should **RTH258/Brolucizumab** become available in the market, assuming positive clinical results and assuming that there will be no access challenges, how likely would you be to use this product to each type of Wet AMD patients? Please select all that apply.

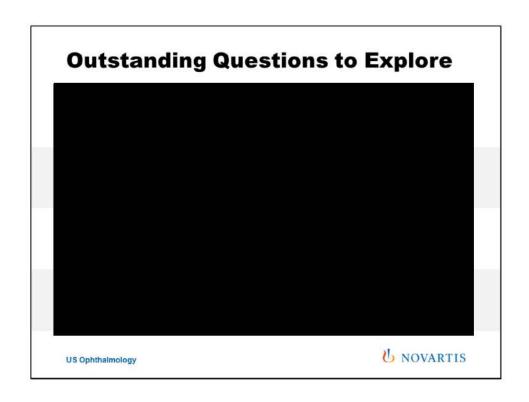
<u>Q43</u>. And should <u>RTH258/Brolucizumab</u> become available in the market, assuming positive clinical results and assuming that there will be no additional access challenges when compared to other branded, on-label anti-VEGFs, what proportion of each of your Neovascular AMD (Wet AMD) patients would you treat with this product? Please specify your answer per each of the following types of Wet AMD patients.



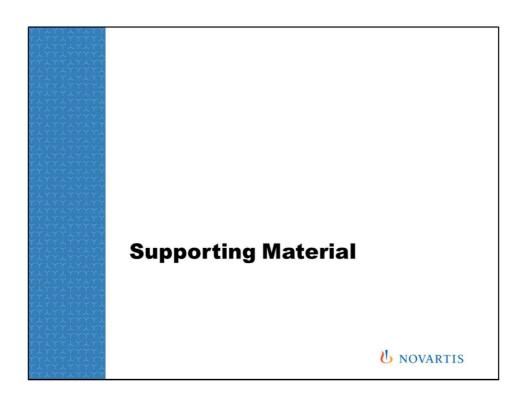




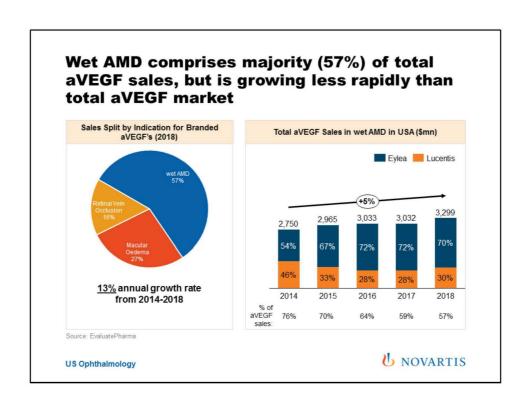


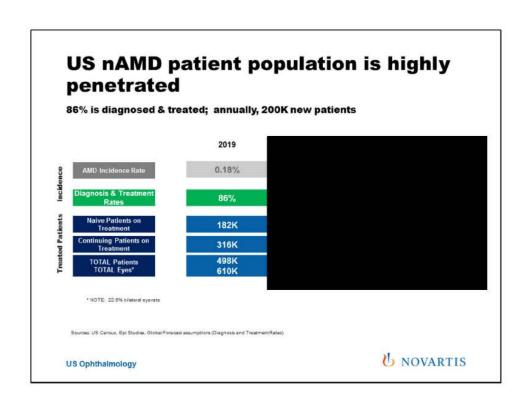


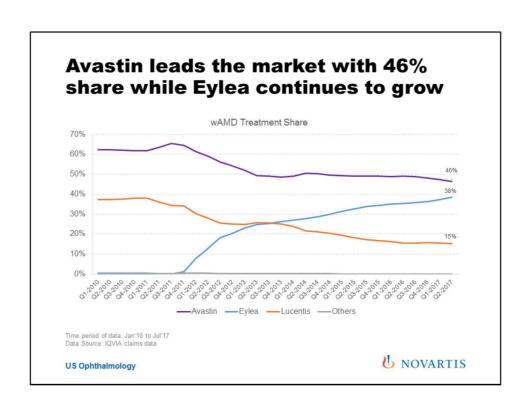


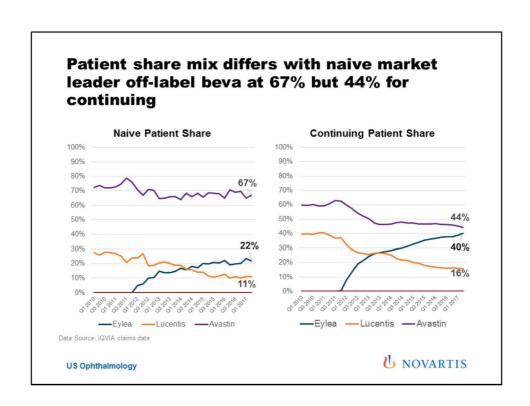


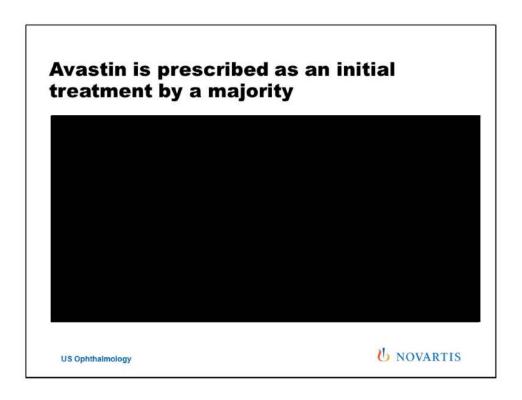




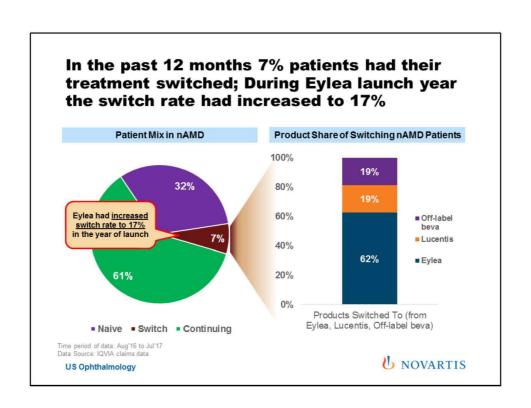


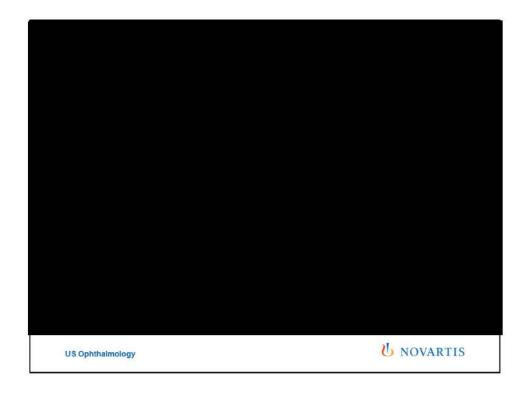




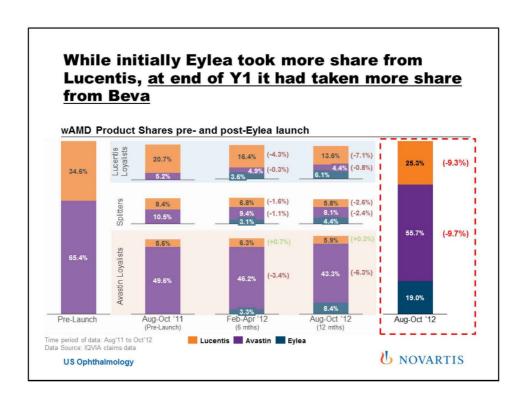


S11. In what order do you typically prescribe / escalate therapy in wet AMD patients (1 for first-line, up to 4 for 4th line)?

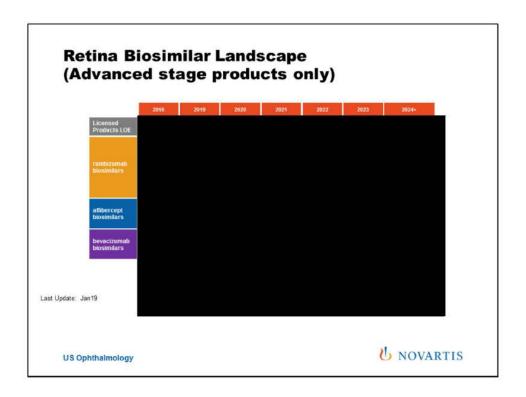




Q7. Now please think about your wet AMD patients that you have initiated on initiated on _____ and then switched to a different anti-VEGF agent. For those patients, what percent were switched to the following medications on average?



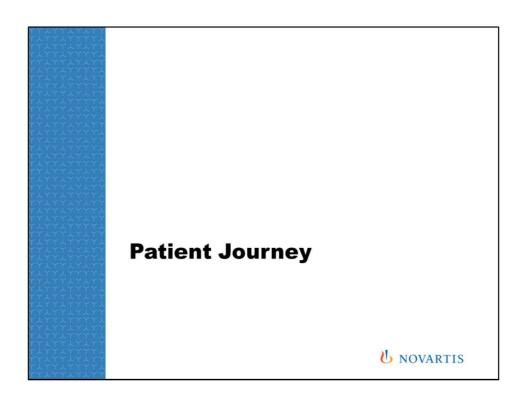
Lucentis share >60% - Lucentis Loyalist Avastin share > 60% - Avastin Loyalist Others - Splitters

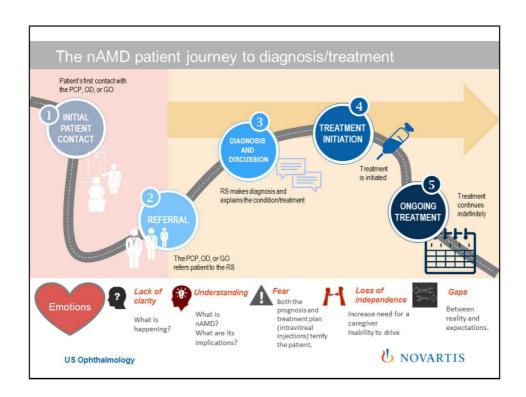


Notes:

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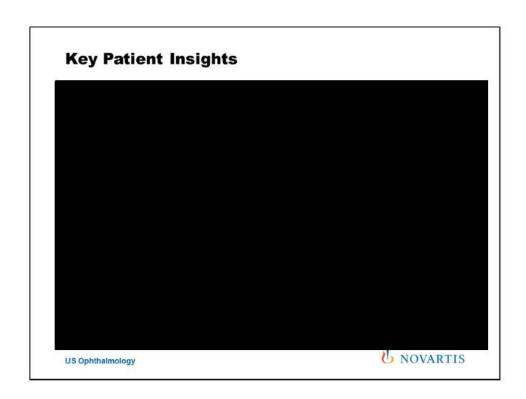


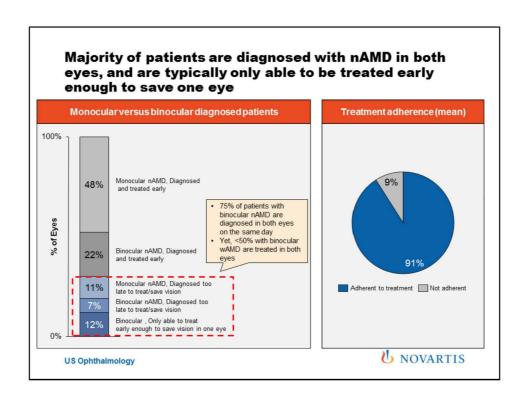




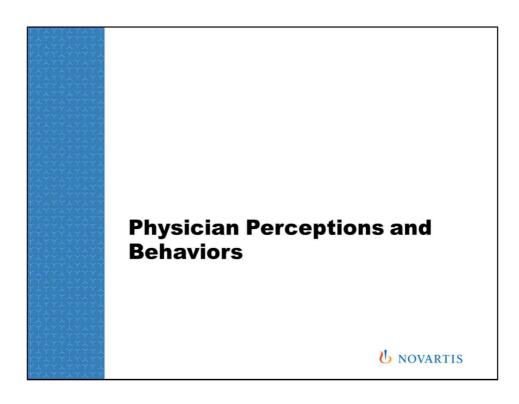
nAMD / DME Segmentation - Quintiles / nAMD Patients = 72

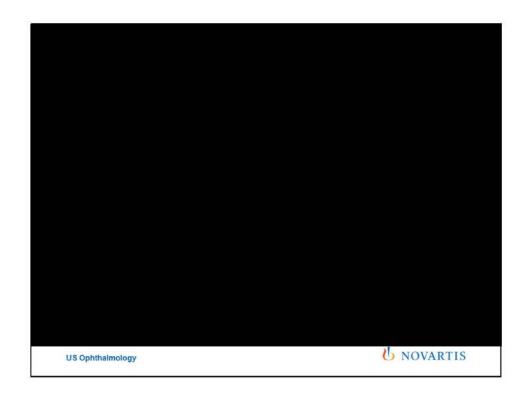
Q: Agreement with the statement : scale from 1 "Completely disagree" to 7 "Completely agree"

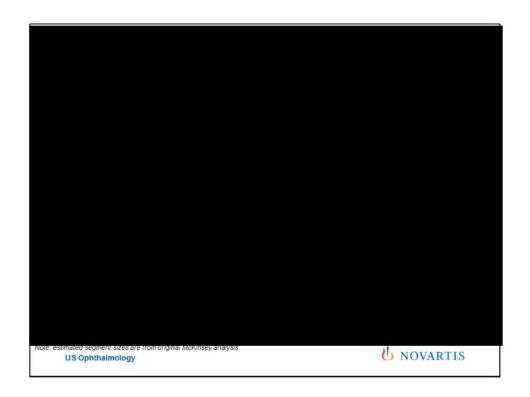


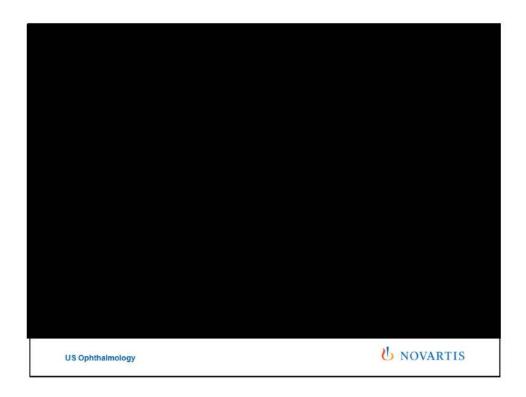










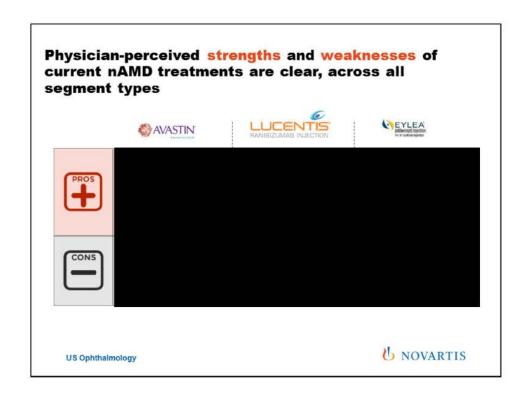


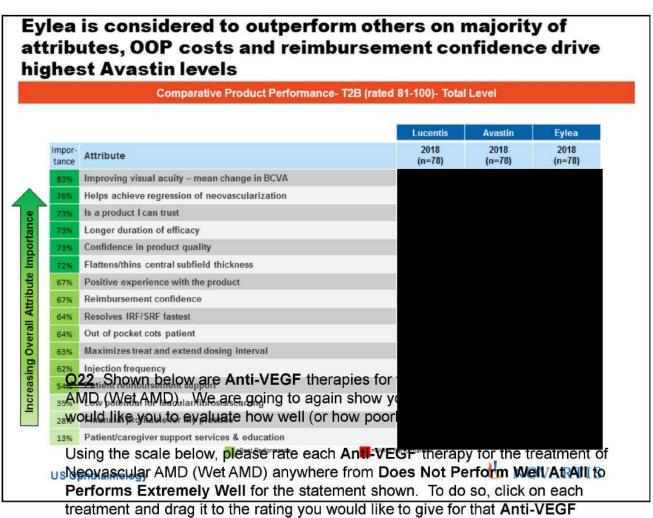
Q12. How satisfied are you with the current treatment options for your wet AMD patients?



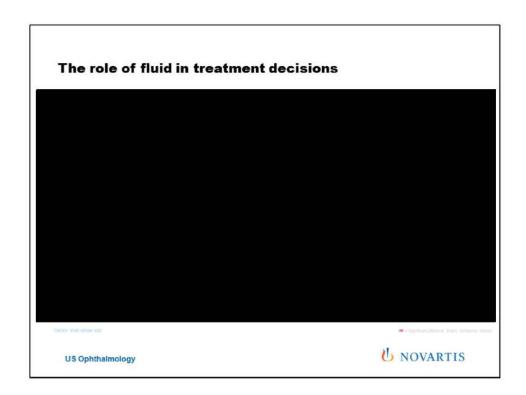


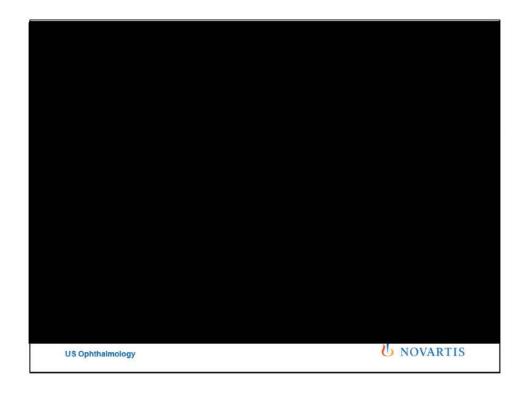
S13. Please select the statement that most closely reflects your approach to prescribing treatments to your AMD patients.



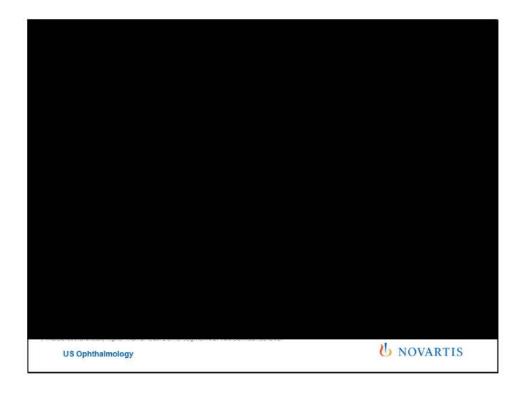


therapy for the treatment of Neovascular AMD (Wet AMD).



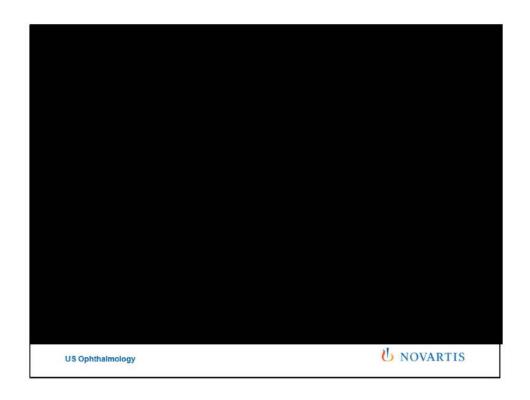


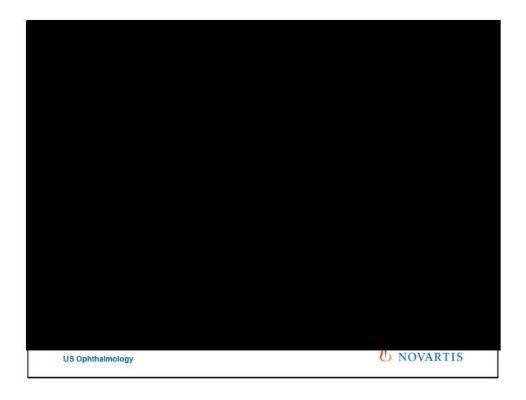
Q17. For **each** anti-VEGF agent below, please indicate how much you agree or disagree with each of the following statements.



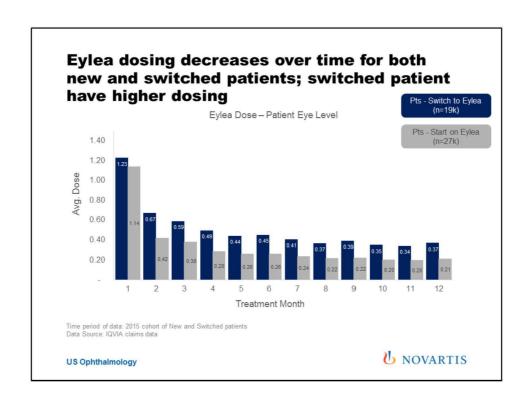
Q18. For each statement below related to wet AMD, please indicate how much you agree or disagree.

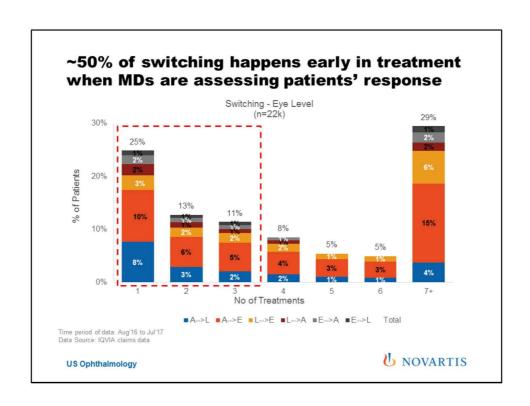






- Q4. Once patients are past the loading phase, what would you estimate is the average treatment interval you currently see in your practice? Please answer for each anti-VEGF agent listed below.
- Q5. In what % of your wet AMD patients who are treated with each of the following anti-VEGF agents are you able to use a 'treat and extend protocol (interval between treatments extended as long as macula remains dry)'?



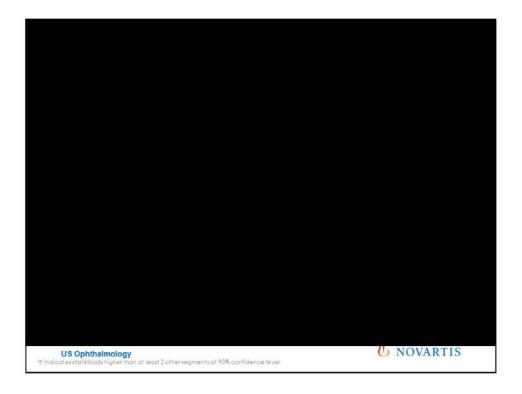




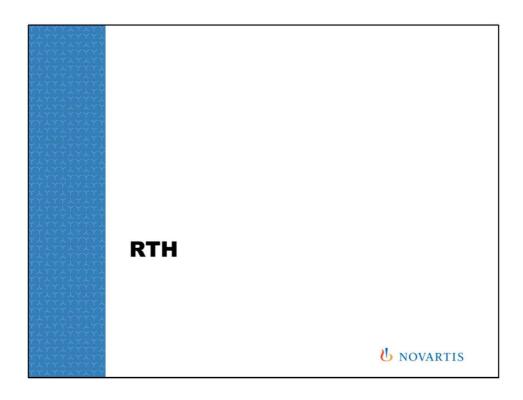
Q9. Again, please think of your wet AMD patients that you have initiated on each of the following agents, and then switched to a different anti-VEGF agent. On average, what % patients are switched for each of the following reasons?

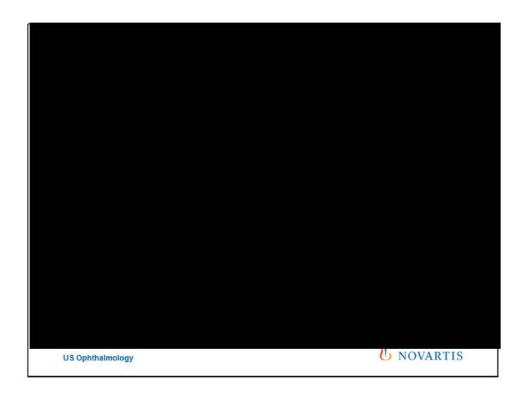


Q7. Now please think about your wet AMD patients that you have initiated on initiated on _____ and then switched to a different anti-VEGF agent. For those patients, what percent were switched to the following medications on average?

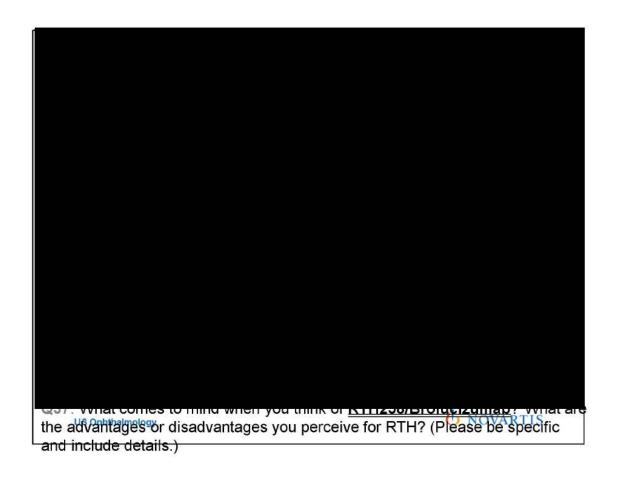


- Q6. On average, for what % of your wet AMD patients who are initiated on each of the following anti-VEGF agents, have you switched agents?
- Q8. Please continue to think about your wet AMD patients for whom you have switched agents. What would you estimate is the average treatment time before switching agents? Please provide the average number of weeks following the loading phase.





Q36. And how you would describe your knowledge of these products?





Q38. Based on what you know / the information you have been shown, how likely are you to use RTH 258 / Brolucizumab as a treatment for Neovascular AMD (Wet AMD)? Single code per row

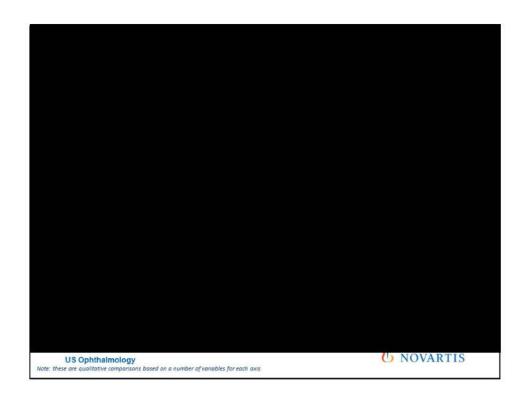




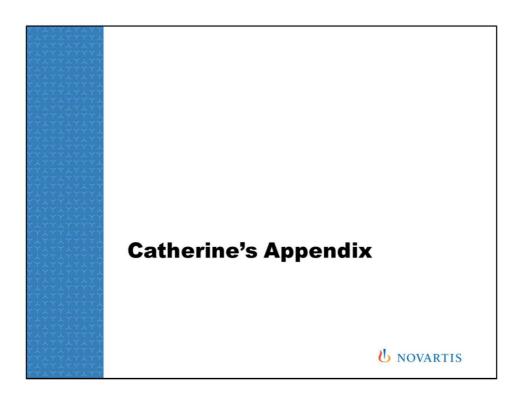
Q42. Should **RTH258/Brolucizumab** become available in the market, assuming positive clinical results and assuming that there will be no access challenges, how likely would you be to use this product to each type of Wet AMD patients? Please select all that apply.

<u>Q43</u>. And should <u>RTH258/Brolucizumab</u> become available in the market, assuming positive clinical results and assuming that there will be no additional access challenges when compared to other branded, on-label anti-VEGFs, what proportion of each of your Neovascular AMD (Wet AMD) patients would you treat with this product? Please specify your answer per each of the following types of Wet AMD patients.













nAMD ATU US - 2017 / Retinal Specialist=61

Q1b. Of the [S4 patients] suffering from Neovascular AMD (Wet AMD) that you have personally seen in the past 3 months, how many fell into each of the following categories the last time you saw them?

Q2b. What are the reasons why patients are not receiving any anti-VEGF treatment? Retinal Specialist=61

Q2c. You previously mentioned that some of your patients refused an anti-VEGF treatment. Can you please specify reason why for their decision? Retinal Specialist=41

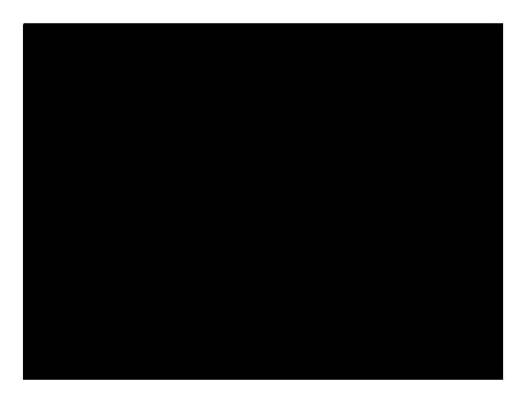
McKinsey study / Patients =232 Q: Attitudes regarding nAMD



McKinsey study / Patients =232 Q: Attitudes regarding nAMD

Q: Source of information : Where do you get all the information about AMD treatments (by proportion)?





nAMD ATU US - 2017 / Retinal Specialist=61

Q1b. Of the [S4 patients] suffering from Neovascular AMD (Wet AMD) that you have personally seen in the past 3 months, how many fell into each of the following categories the last time you saw them?

Q2b. What are the reasons why patients are not receiving any anti-VEGF treatment? Retinal Specialist=61

Q2c. You previously mentioned that some of your patients refused an anti-VEGF treatment. Can you please specify reason why for their decision? Retinal Specialist=41

McKinsey study / Patients =232 Q: Attitudes regarding nAMD



Q17a. Thinking now about treatment adherence for nAMD; Of the patients suffering from Neovascular AMD (Wet AMD) that you have treated in the last 3 months, what percentage of them who have responded to the treatment are not adherent? Range[0-100]

Q17. And now of the of patients who are not adherent, what percentage would fall into the following categories?







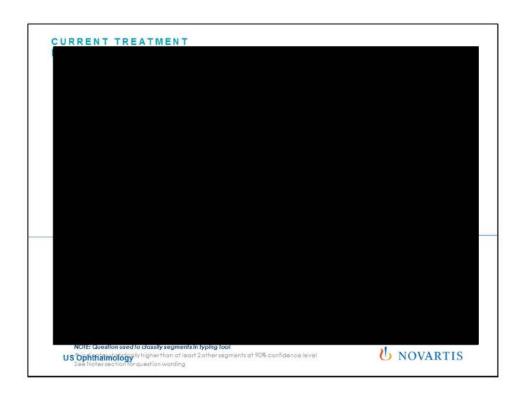


Ranibizumab/Lucentis, <u>IF Q5.2>0:</u> unlicensed Bevacizumab/Avastin, <u>IF Q6.2>0:</u> Aflibercept/Eylea] in the last 3 months, what percentage are using the following dosing regimens – after the initial loading doses?

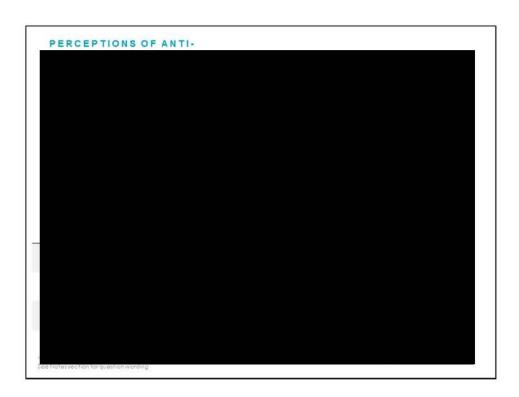
- Q8. Thinking about all your Neovascular AMD (Wet AMD) maintenance patients treated with unlicensed Bevacizumab/Avastin in the last 3 months, what percentage are using the following dosing regimens after the initial loading doses?
- Q9. Thinking about all your Neovascular AMD (Wet AMD) maintenance patients treated with Aflibercept/Eylea in the last 3 months, what percentage are using the following dosing regimens after the initial loading doses?



S11. In what order do you typically prescribe / escalate therapy in wet AMD patients (1 for first-line, up to 4 for 4^{th} line)?



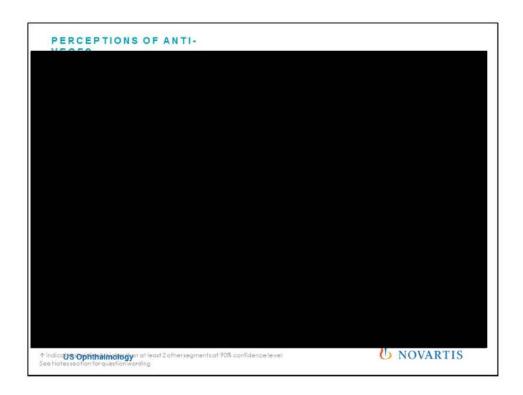
S11. In what order do you typically prescribe / escalate therapy in wet AMD patients (1 for first-line, up to 4 for 4^{th} line)?



Q14. Using the scale below, how would you rate your **overall opinion** of each of the following medications specifically for the treatment of **wet AMD**?



Q13. Please indicate how important each of the items below is in your selection of an anti-VEGF treatment for wet AMD. Please review the full list and then select and rank order your **top 5 items** in terms of importance in selecting an anti-VEGF for wet AMD.



Q12. How satisfied are you with the current treatment options for your wet AMD patients?



Q13. Please indicate how important each of the items below is in your selection of an anti-VEGF treatment for wet AMD. Please review the full list and then select and rank order your **top 5 items** in terms of importance in selecting an anti-VEGF for wet AMD.



Q15. For **each** anti-VEGF agent below, please indicate how much you agree or disagree with each of the following statements.

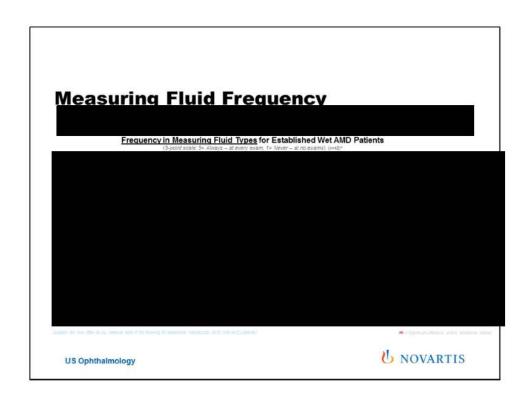


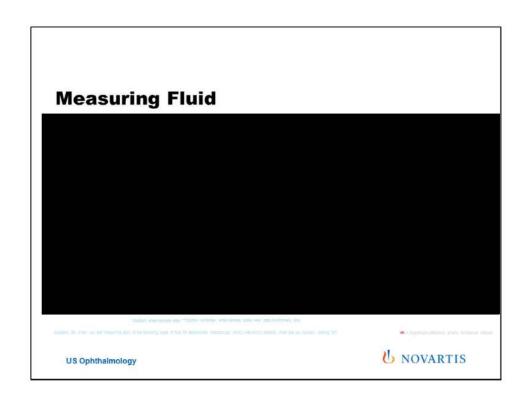
Q15. For **each** anti-VEGF agent below, please indicate how much you agree or disagree with each of the following statements.

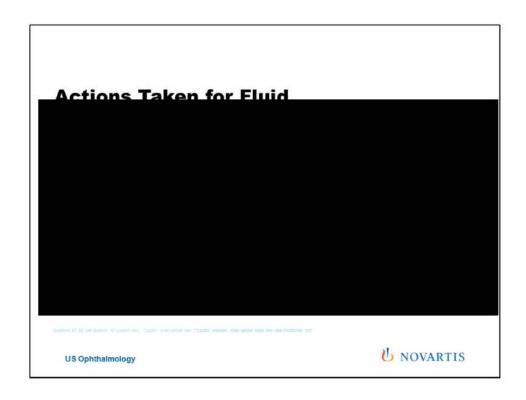


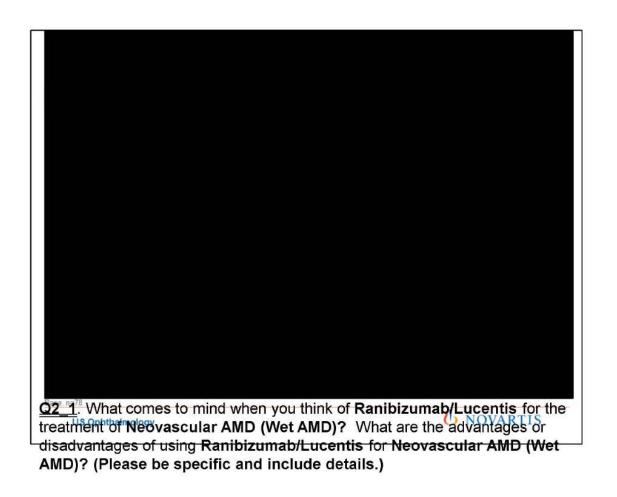
Q26. For each statement below, please select the medication or medication(s) for which you believe the statement is most true. You must select at least one medication for which you think the statement is most true, and you may select up to three choices if you believe the statement applies to all three medications. Even if you are unsure, please provide your best guess. Select at least one and up to three items for each row.









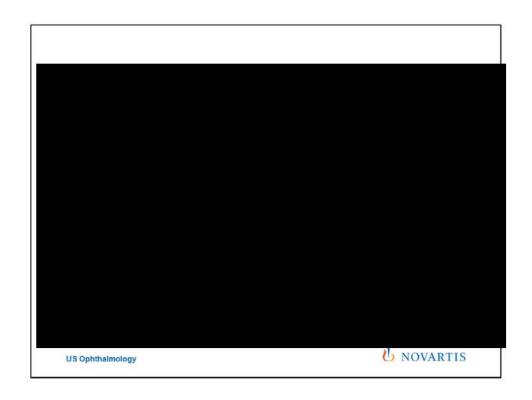


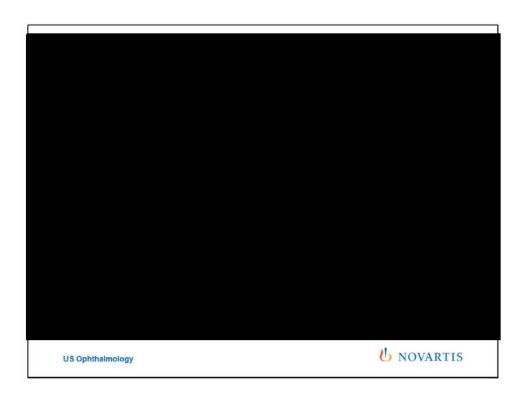


<u>Q2_2</u>. What comes to mind when you think of Bevacizumab/Avastin for the treatment of Neovascular AMD (Wet AMD)? What are the advantages or disadvantages of using Bevacizumab/Avastin for Neovascular AMD (Wet AMD)? (Please be specific and include details.)



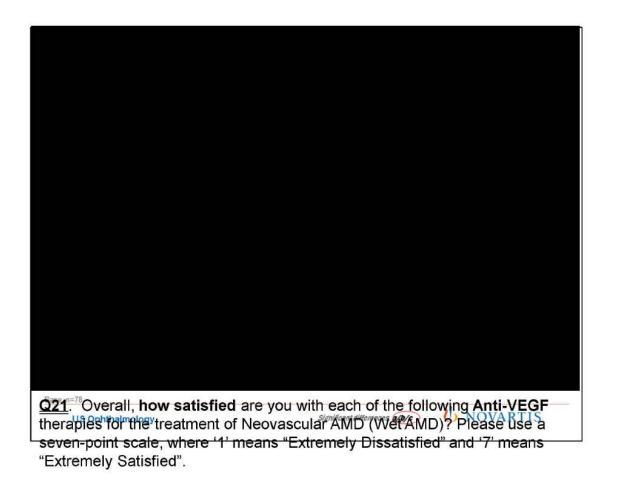
what comes to mind when you think of Aflibercept/Eylea for the treatment of Neovascular AMD (Wet AMD)? What are the advantages or disadvantages of using Aflibercept/Eylea for Neovascular AMD (Wet AMD)? (Please be specific and include details.)





McKinsey study / Retinal Specialist =98

Q: Agreement with attributes in a scale from 1 "Completely disagree" to 8 "Completely agree"





Q3. Of the [insert number from S9] patients suffering from Neovascular AMD (Wet AMD) that you have personally seen in the past 3 months, what percentage are currently receiving each of the following therapies?

Q4. Of the patients suffering from Neovascular AMD (Wet AMD) that you have treated with Ranibizumab/Lucentis in the last 3 months, what percentage fell in each of the following categories the last time you saw them?

Q5. Of the patients suffering from Neovascular AMD (Wet AMD) that you have treated with unlicensed Bevacizumab/Avastin in the last 3 months, what percentage fell in each of the following categories the last time you saw them?

Q6. Of the patients suffering from Neovascular AMD (Wet AMD) that you have treated with Aflibercept/Eylea in the last 3 months, what percentage fell in each of the following categories the last time you saw them?



Q26. We would now like to present you with a series of statements, can you please indicate your **level of agreement** with each of them, using a scale from 1 to 7, where 1 = 'Strongly Disagree' and 7 = 'Strongly Agree'? *Single code per row.*



Q24. To what extent do you believe there is a need for a new therapy to treat Neovascular AMD (Wet AMD)? Please use a scale of 1 to 7 where 1 means "no need" and 7 means "major need".

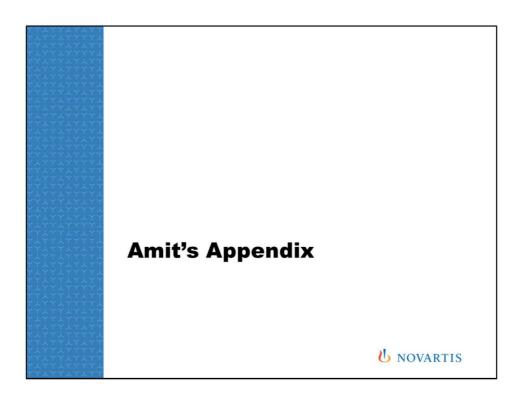


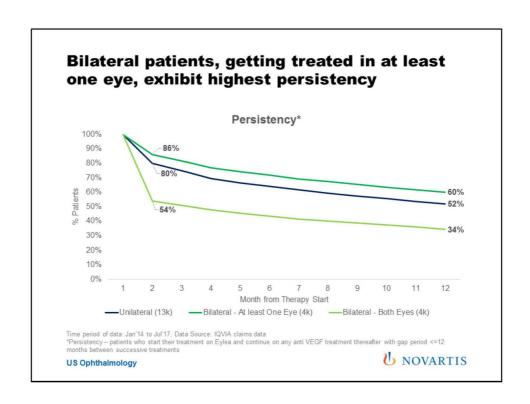
Q36. And how you would describe your knowledge of these products?

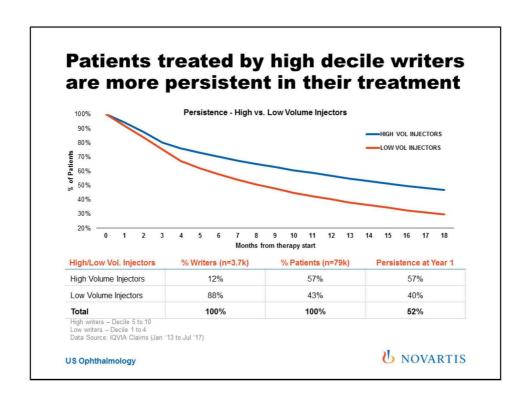


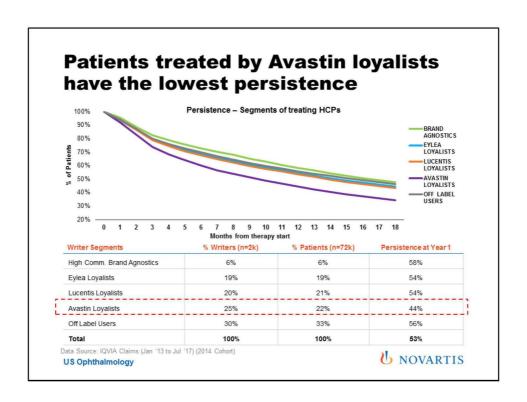
Q36. And how you would describe your knowledge of these products?





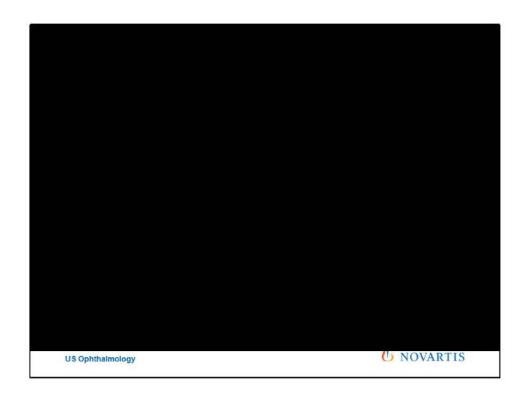




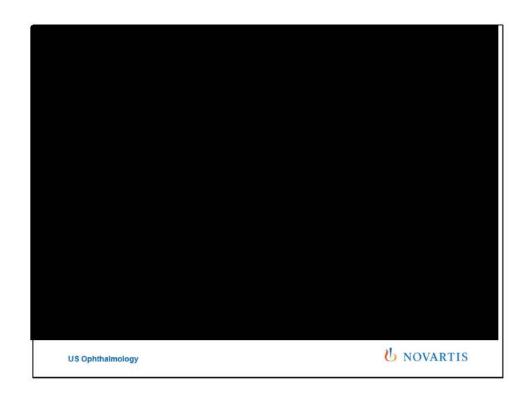


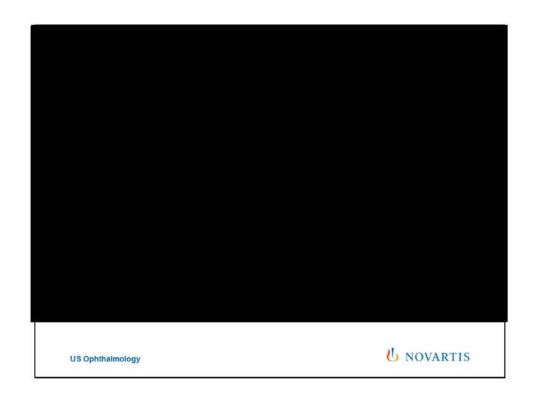
New patients with 2 or more anti VEGF injections were included in this analysis Note: 12 month look forward period was considered for patient persistency Data Source: IQVIA Claims (Jan '13 to Jul '17) (2014 Cohort)

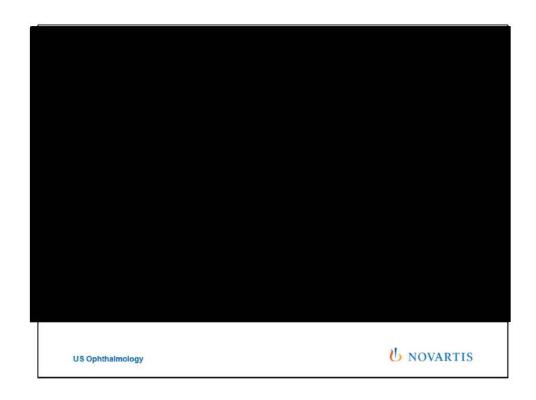




No Visit = LTFU, Continued Visit = stop therapy and Continued Treatment = restart







Medicare FFS channel yields the best branded performance

- Avastin is currently the first line treatment of choice across all payment channels; Eylea is the branded leader among switching patients
- Among new-to-brand patients, almost two thirds are naïve patients, indicating lack of switching behavior in the wet-AMD space
- Branded naïve share is highest in the Medicare FFS channel, presenting the greatest opportunity for RTH258

