## Patient-Oriented Eczema Measure (POEM) Scores to Measure Patient Improvement with Specialty Medication for Atopic Dermatitis

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#### BACKGROUND

- Severe Atopic Dermatitis (AD) is chronic or recurrent, widespread skin lesions with persistent itching
- Compromises a patient's quality of life
- Often requires management with biologic medications available through specialty pharmacies
- Patient-Oriented Eczema Measure (POEM) is a validated patient-reported outcome tool used to monitor AD disease activity and assess response to therapy
- 7 questions; Scores range 0-28 (Table 1)
- Published findings are limited regarding the trajectory of POEM scores and their utility in patient care and clinical decision-making throughout the specialty pharmacy patient journey.

#### **METHODS**

- This was a retrospective cohort of patients with AD diagnosis in our health system-owned specialty pharmacy
- New to biologic therapy between 4/2017- 12/2021
- Filled 2+ dupilumab prescriptions within 6-months
- POEM scores reported through clinical assessment
- Baseline
- Follow Up (1+ POEM score recorded within 6 months)

#### **Table 1: POEM Scoring**

- 0 to 2 = Clear or almost clear
- 3 to 7 = Mild eczema 8 to 16 = Moderate eczema
- 17 to 24 = Severe eczema 25 to 28 = Very severe eczema
- Trends in in POEM scores assessed by baseline AD severity:
- Loess regressions examined inflection points
- Linear mixed models controlled for effects of intrapatient correlation to examine average decrease in POEM scores over time

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#### OBJECTIVE

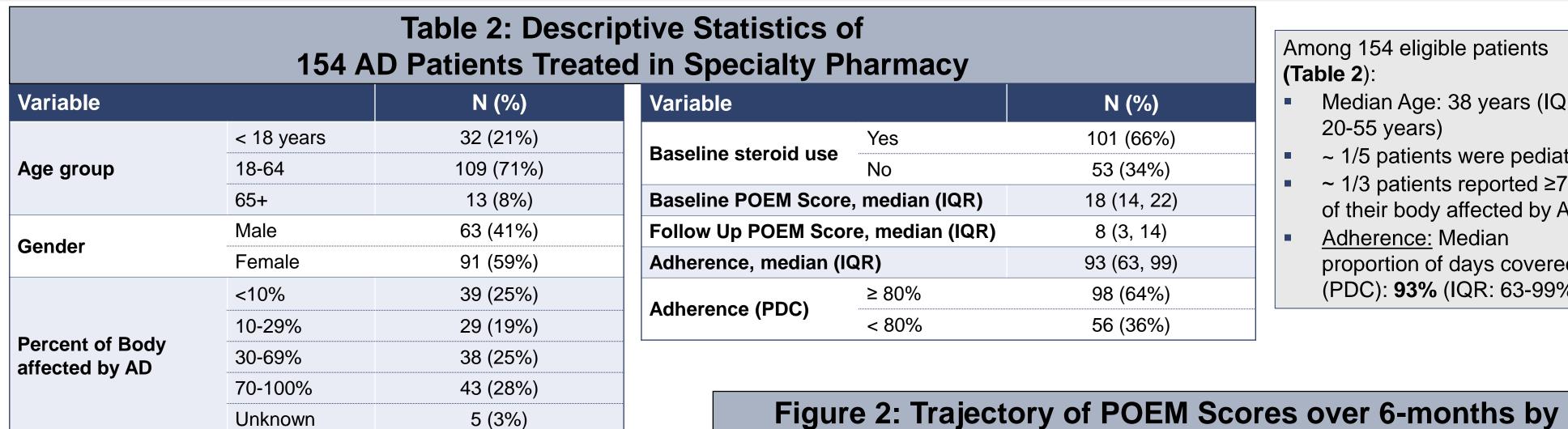
To examine trends in AD severity, as measured by POEM scores, among patients with AD during their first 6-months of specialty pharmacy treatment within our health system-owned specialty pharmacy.

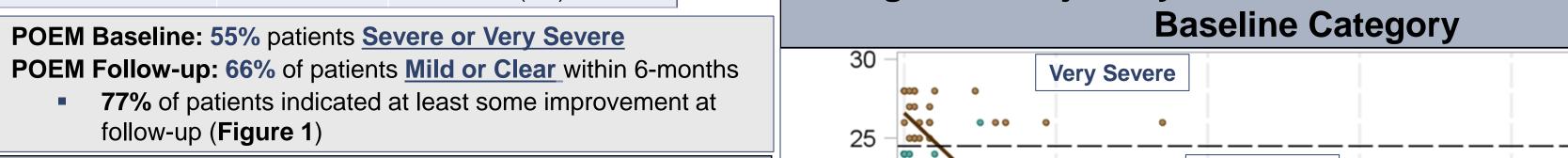
#### RESULTS

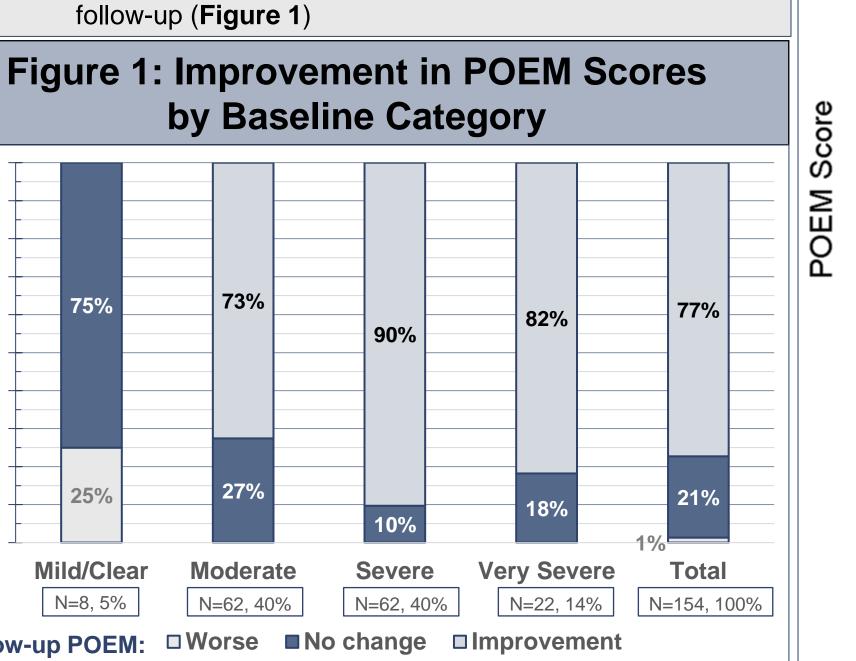
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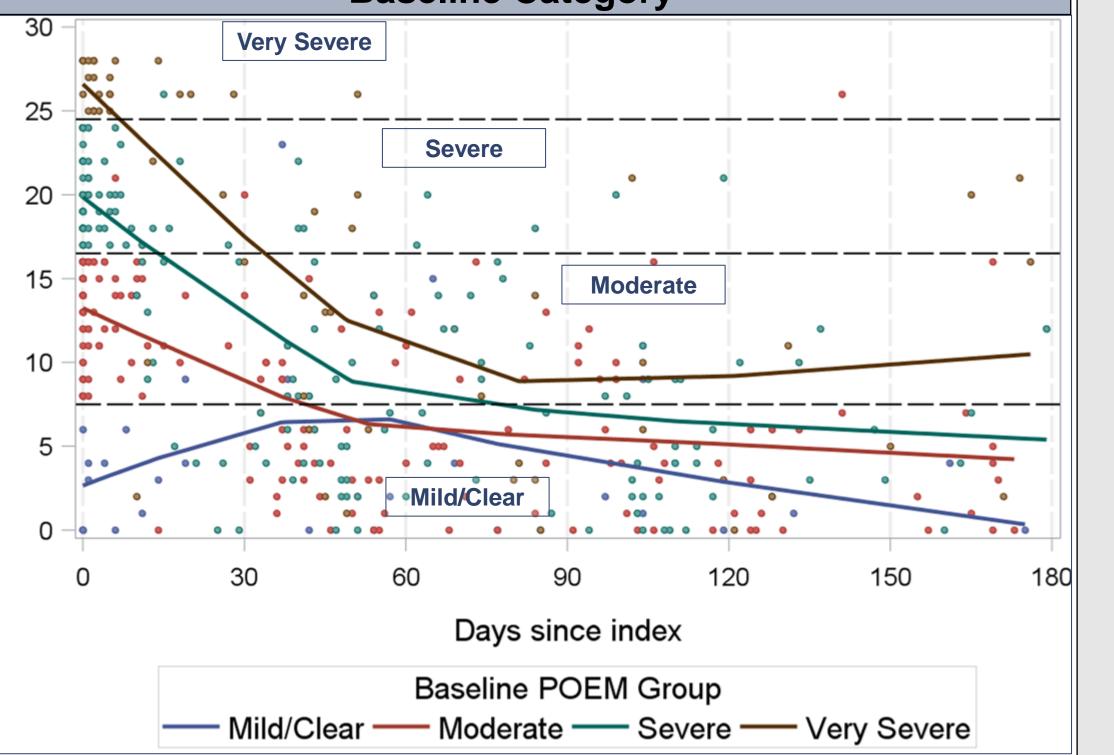
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10%









Median Age: 38 years (IQR:

~ 1/5 patients were pediatric

~ 1/3 patients reported ≥70%

of their body affected by AD

proportion of days covered

(PDC): 93% (IQR: 63-99%)

Adherence: Median

20-55 years)

#### RESULTS

- Most dramatic decrease in POEM scores occurred within ~45 days of starting biologic therapy (**Figure 2**)
  - Baseline Higher Severity groups had early, sharp declines in POEM scores that stabilized at Moderate to Mild/Clear between 60 and 90 days follow up
  - Baseline Mild/Clear patients remained fairly stable throughout
- Patients with higher severity baseline disease activity exhibited larger average POEM decreases in follow-up from 1- to 6-months (**Table 3**):
  - Moderate decreased 11 points
  - Severe decreased 20 points
  - Very Severe decreased 21 points

#### Table 3: Average <u>Decrease</u> in POEM Score Over Time by Baseline POEM Category

		Decrease at 30-days	Decrease at 60-days	Decrease at 90-days	Decrease at 180-days	p-value
Baseline POEM Category	Mild/Clear	0.13	0.26	0.40	0.79	0.81
	Moderate	1.87	3.75	5.62	11.25	<.0001
	Severe	3.28	6.55	9.83	19.66	<.0001
	Very Severe	3.57	7.13	10.70	21.40	<.0001

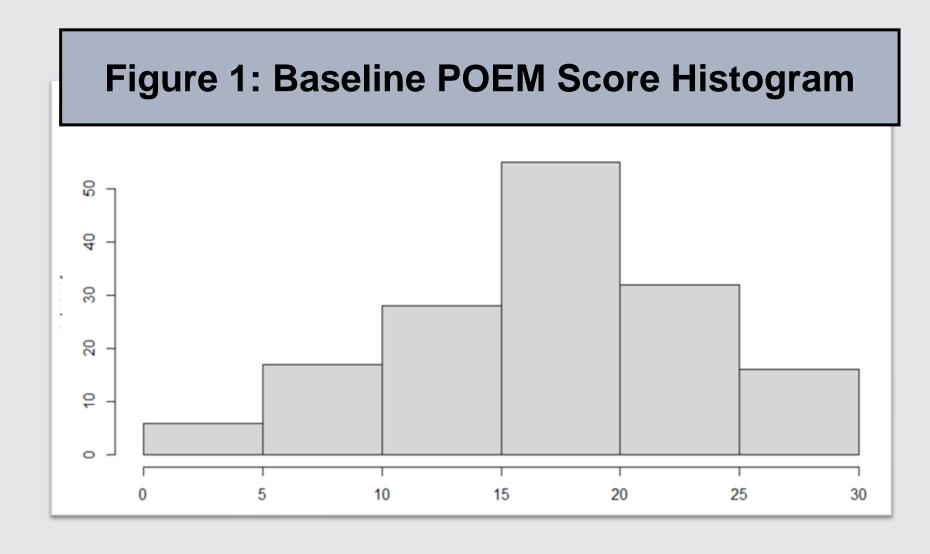
#### CONCLUSIONS

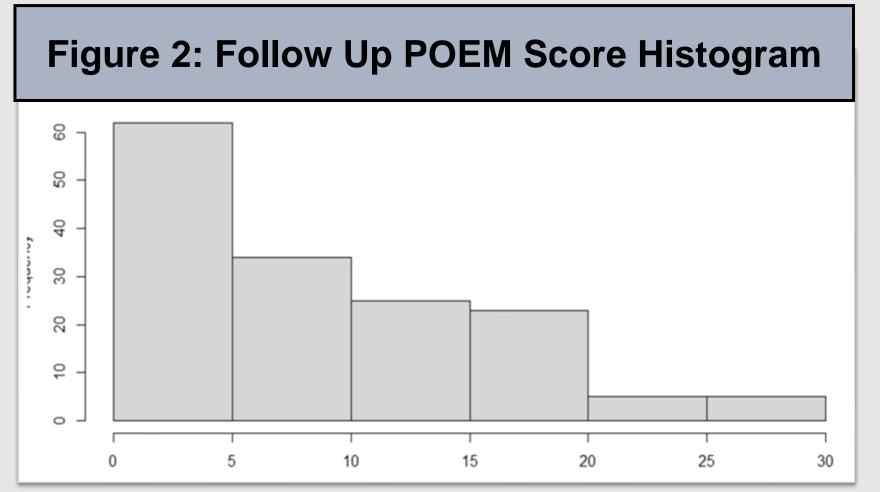
- Adult and pediatric patients generally had high AD disease severity when starting dupilumab with a health systemowned specialty pharmacy
- Patients with AD rapidly moved to a lower disease activity
- Minimally clinically important differences in POEM scores have been reported in the literature to range from a decrease in ~3 to 9 points<sup>1</sup>
- Study patients at baseline Moderate to Very Severe categories all met these thresholds within 1- to 6-months of dupilumab treatment

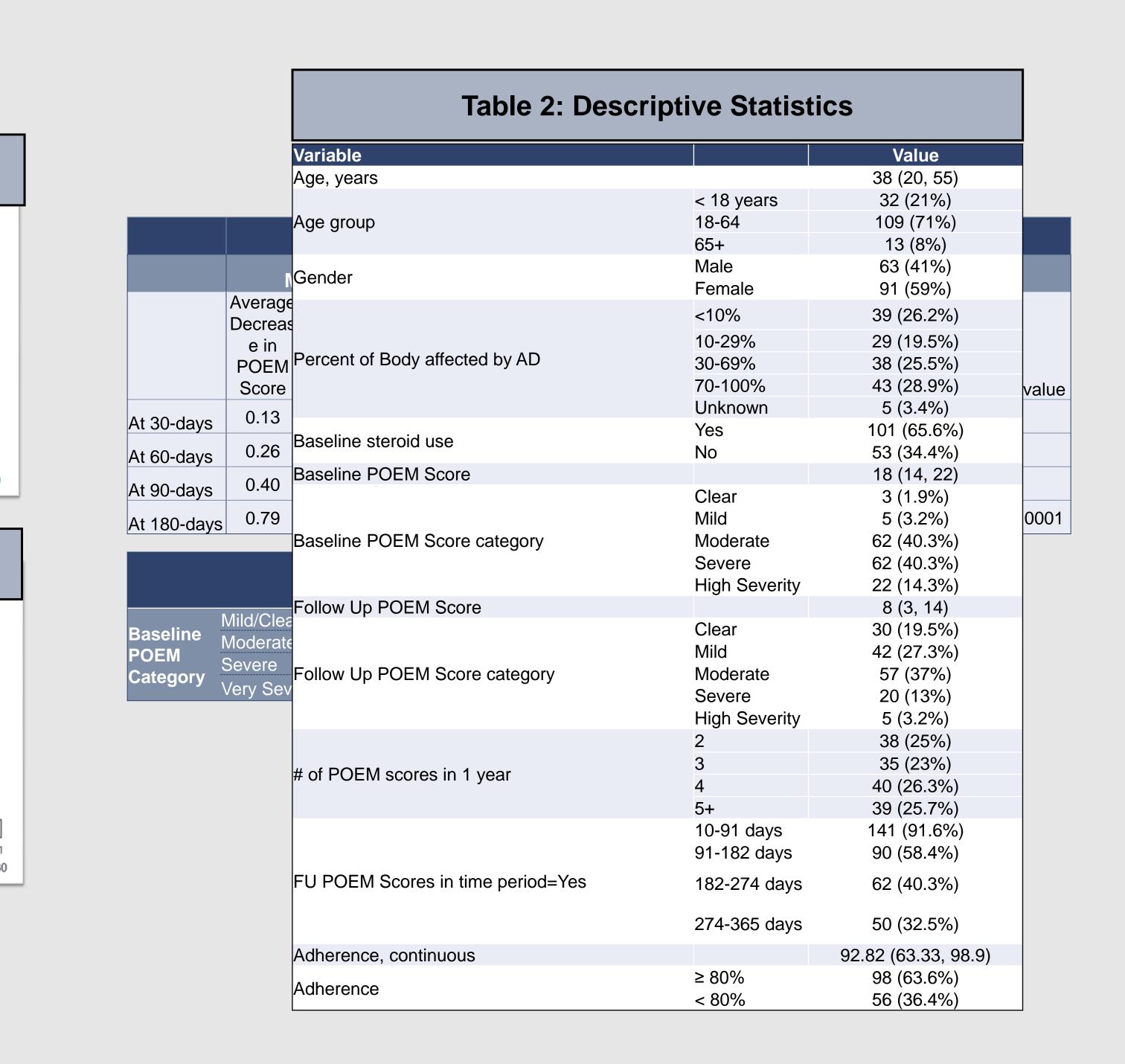
#### **REFERENCE**

Speeckaert R, Belpaire A, Herbelet S, Lambert J, van Geel N. Credibility and Generalization of the Minimally Important Difference Concept in Dermatology: A Scoping Review. JAMA Dermatol. 2022;158(11):1304–1314. doi:10.1001/jamadermatol.2022.3511

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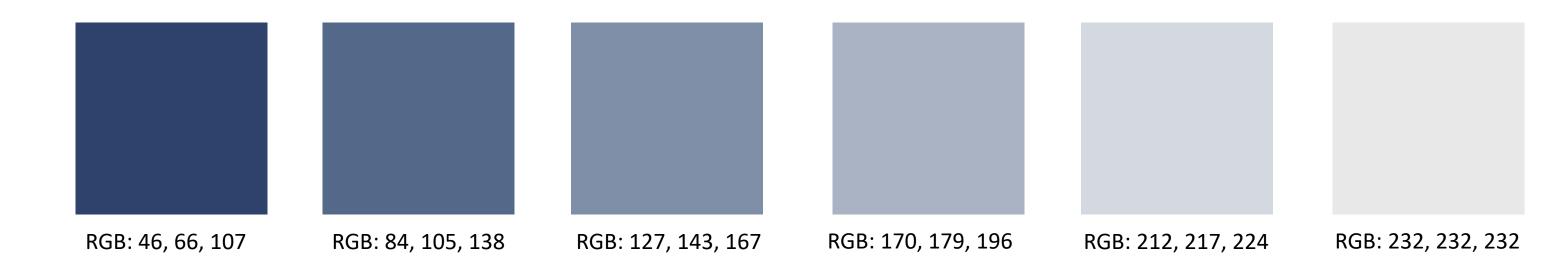




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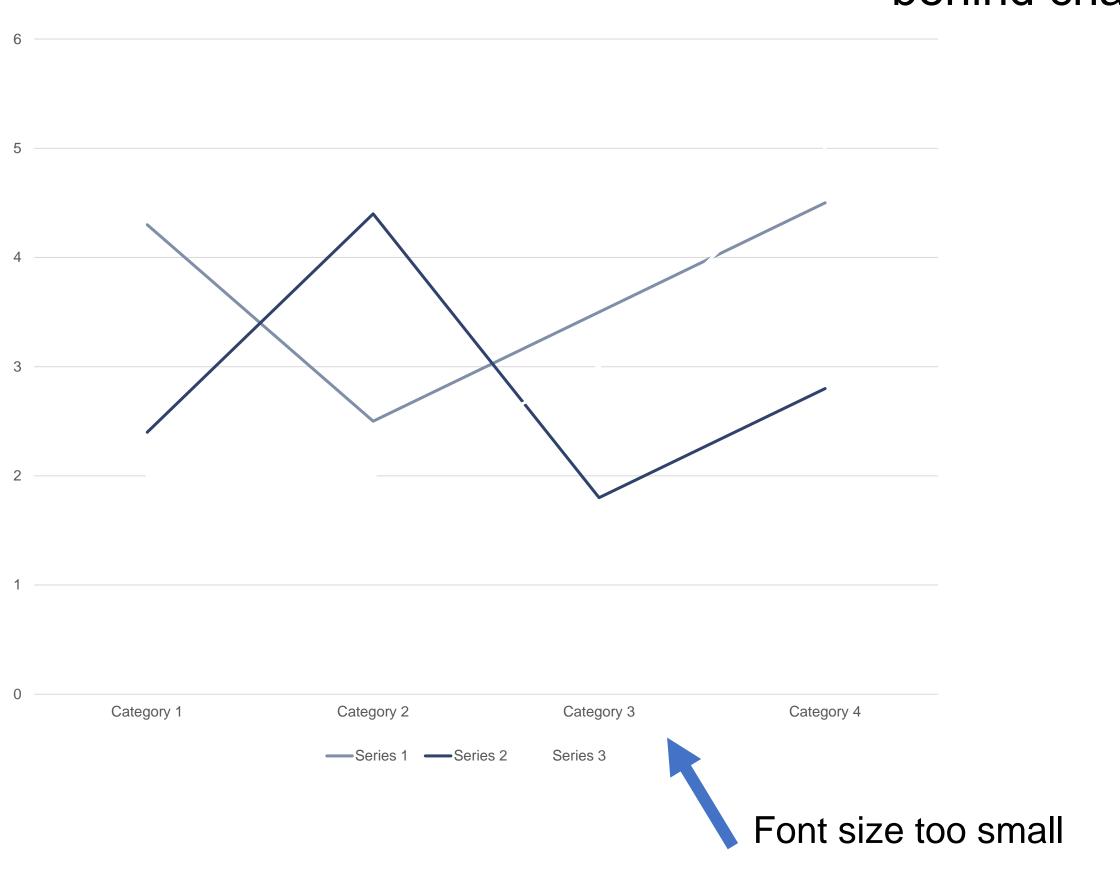


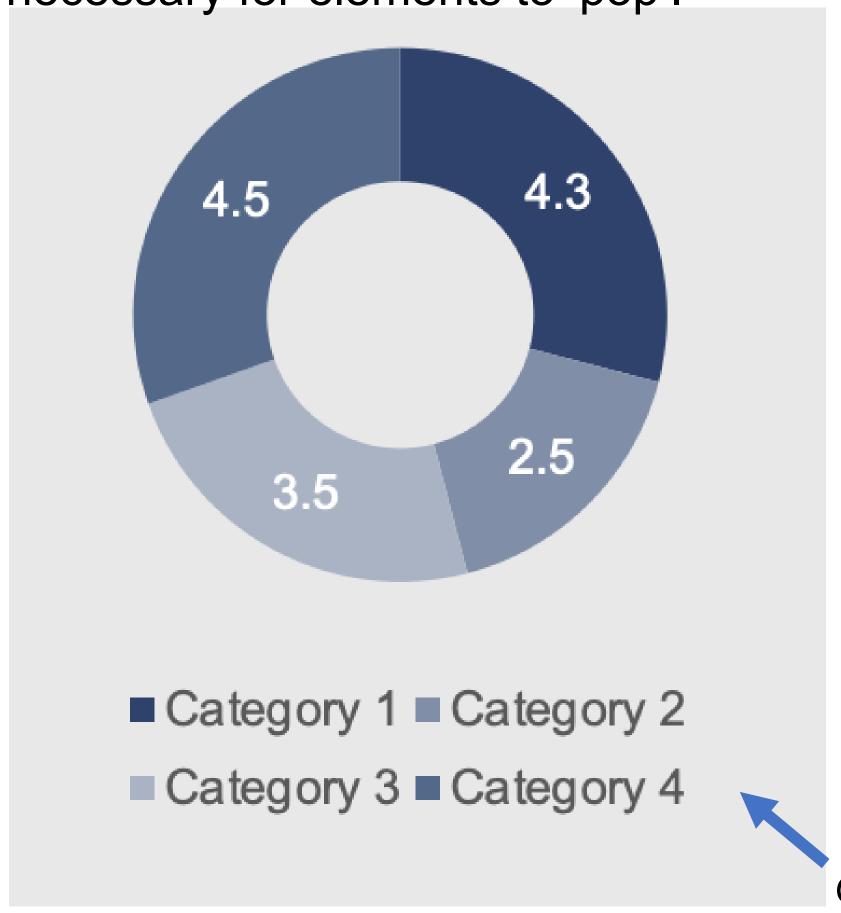
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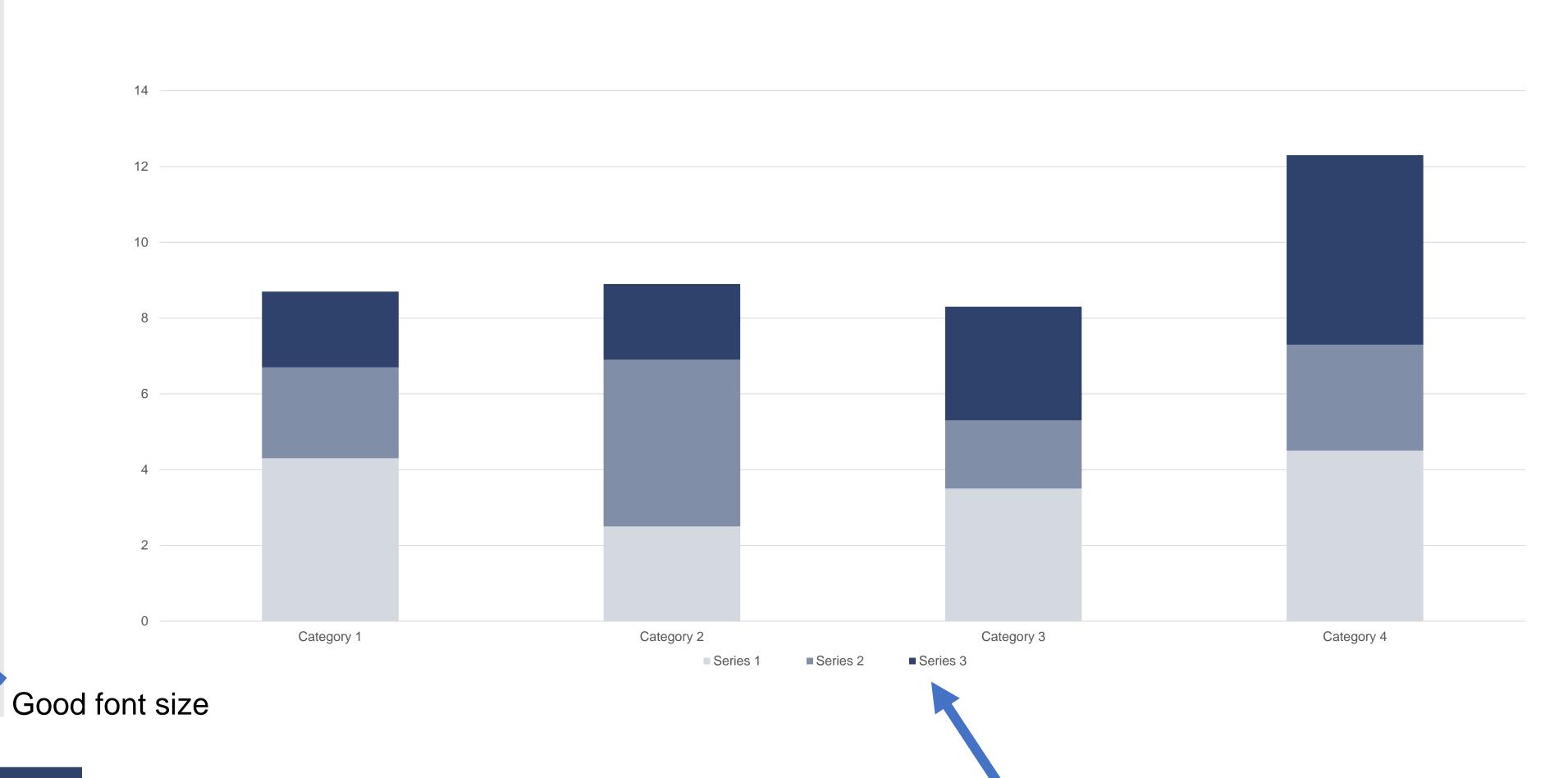


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