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VIRGINIA COMMONWEALTH UNIVERSITY

School of Medicine

From Normative to Narrative:
transitioning a clerkship curriculum and grading system

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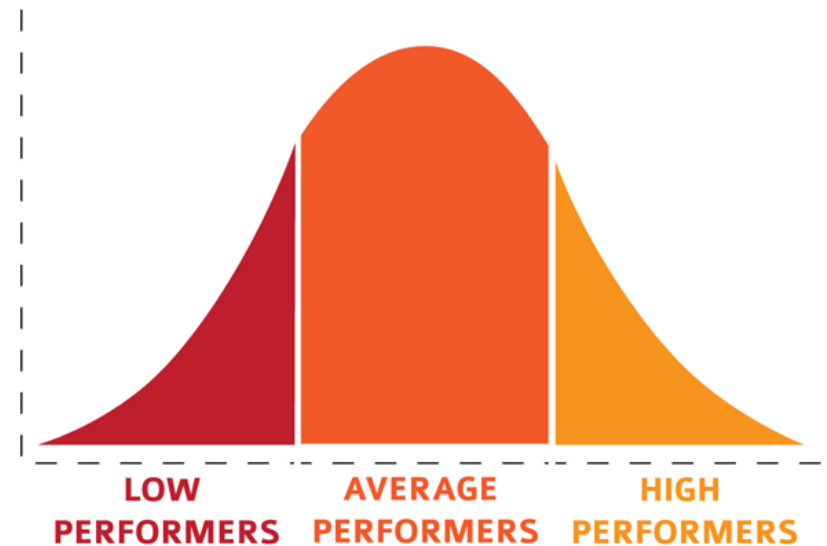
Disclosures

- None



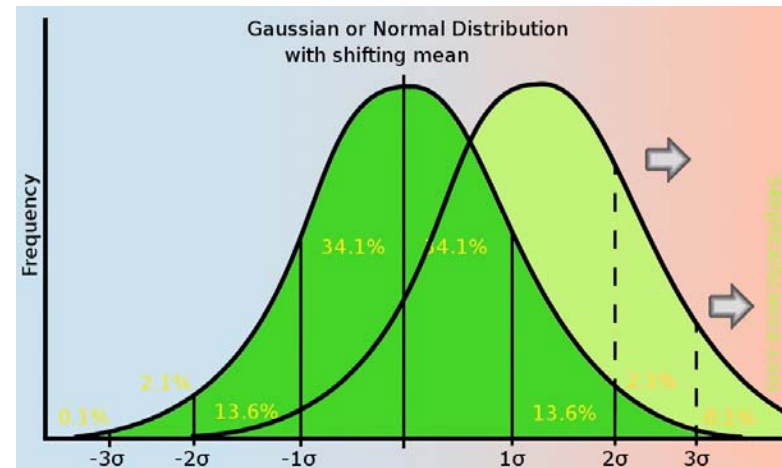
What's wrong with normative?

- Normative used for many years
- Allows comparisons between students
 - (helpful to GME)
- Makes “intuitive” sense to many faculty



The “dark” side of normative

- *Forces* an artificial distribution on a group of smart, highly accomplished students
 - In effect creates a “shifted” bell curve out of an already highly intelligent, motivated group
 - Unclear benefit to patients or clinical skills
- Often a single assessment (i.e. shelf) becomes the dominant factor in a grade
- Breeds competition rather than emphasis on clinical skills and patient care

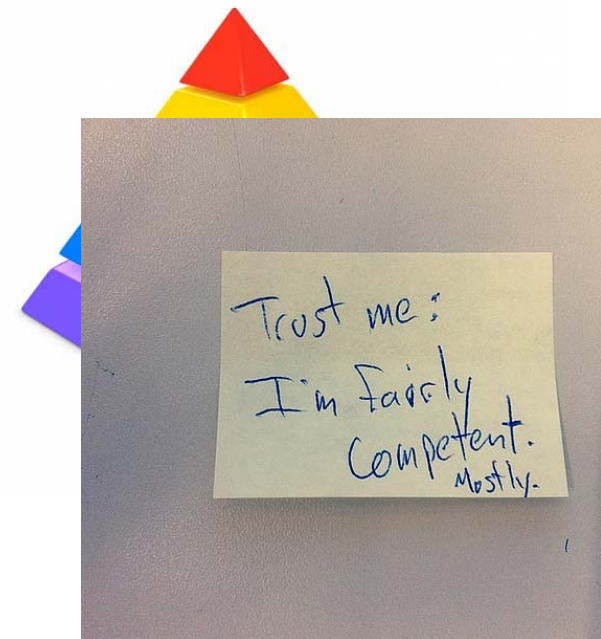


What's our job in UME?

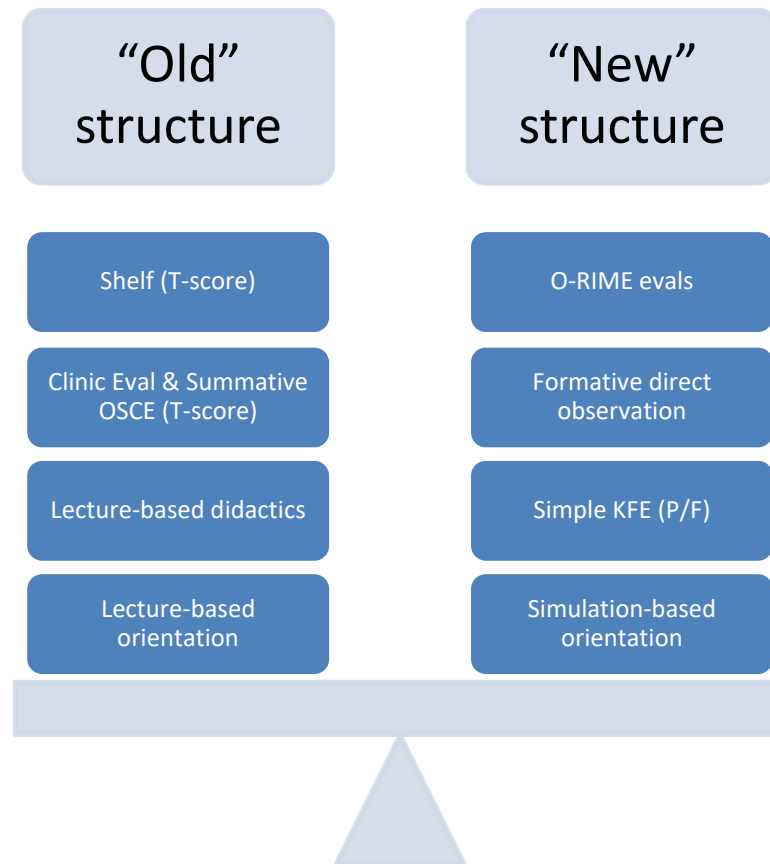
Stratify students—make it easy for GME to sort applications?

Certify competence for supervised practice?

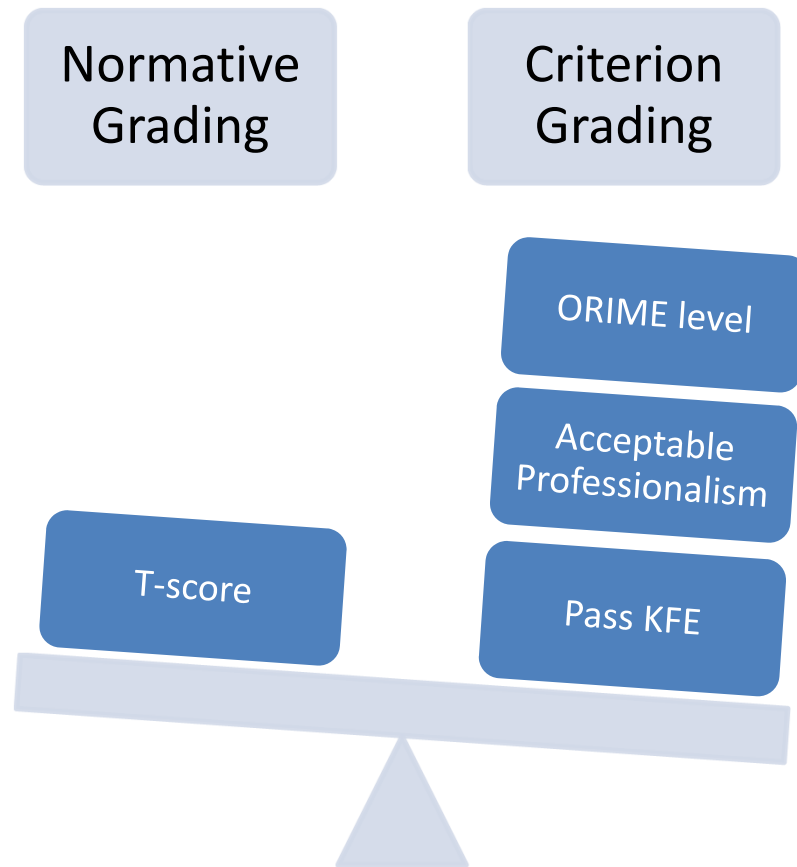
A bit of both?



Changing the curriculum



Establishing the criteria



Establishing the criteria

“Old”
normative

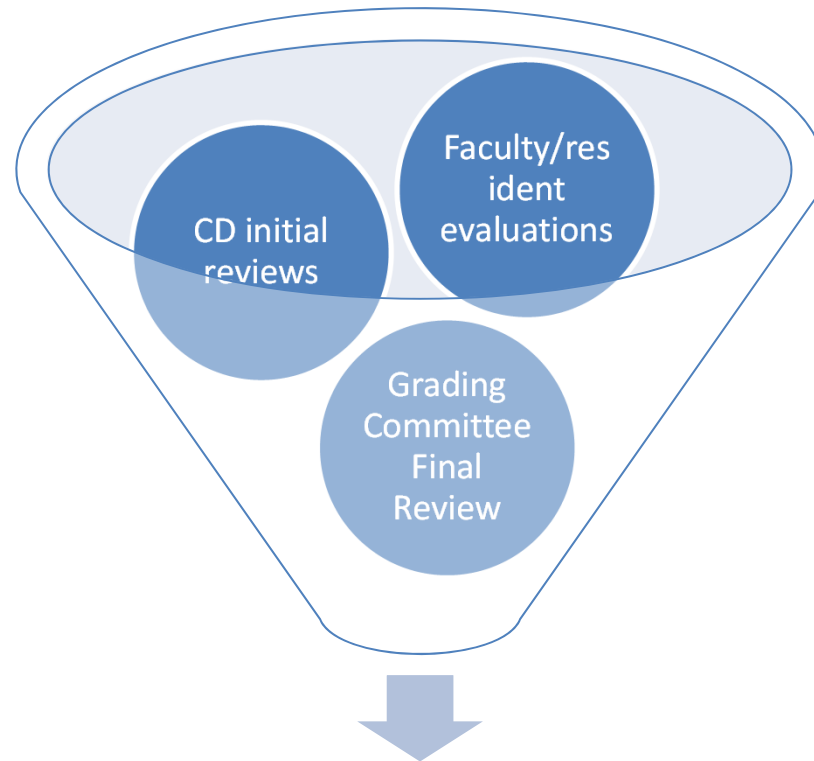
Pass	High Pass	Honors
<ul style="list-style-type: none">• T score >40	<ul style="list-style-type: none">• T-score >50	<ul style="list-style-type: none">• T-score >55

“New”
criterion

Pass	High Pass	Honors
<ul style="list-style-type: none">• Pass KFE• Reporter• Professionalism	<ul style="list-style-type: none">• Pass KFE• Interpreter• Professionalism	<ul style="list-style-type: none">• Pass KFE• Manager• Professionalism



How the ORIME sausage gets made!



Final ORIME designation



Extra special note!

- Curriculum office staff concerned about grade **deflation** using ORIME
- Determined we must use lower thresholds for Honors and HP in rotations 1-3; also an attempt to correct “timing” bias in student schedules
- Rotations 1-3:
 - Honors = interpreter or manager
 - HP = reporter with exceptional comments
- Rotations 4-6:
 - Honors = manager
 - HP = interpreter



ORIME summative evaluation

RIME Framework Instructions:

Please consider all of your interactions with the above student and determine whether you believe their overall performance while working with you is most characteristic of a "Reporter," an "Interpreter," or "Manager" based on the RIME framework descriptions of each level of performance below.

Observer:

Does not actively contribute to patient care; passive participant in rounds; does not report information or meaningfully add to clinical discussions.

Reporter:

Accurately gathers history and performs basic physical examination; Clearly organizes and communicates data, orally and written; Able to recognize normal from abnormal and identify a new problem; reliable: day-to-day, punctual, follows-up.

Interpreter:

Can do everything described under "reporter" plus the following: demonstrates independent and critical thinking; prioritizes problems and develops a differential diagnosis; interprets follow-up test results; shows a higher level of knowledge, increased skill in selecting data which support diagnosis; and can applying test results to specific patients.

Manager:

Can do everything described under "reporter" and "interpreter" plus the following: actively and directly involved in patient care; decides when action needs to be taken; proposes and selects among different diagnostic and therapeutic options; tailors the plan to the particular patient

Educator:

Has mastered the skills in reporter, interpreter, and manager; seeks out literature and does in-depth research into a central clinical question; appraises the quality of relevant scientific literature; takes a role in educating other members of the team.

Select student performance:

Overall Summative for this student:

SAVE



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Acceptable professionalism = self-directed learning

- Completion of at least 42 formative direct observation evaluations
 - Student-driven process
- Attendance at all didactic sessions (unless excused)
- Completion of at least 500 MCQ's on question bank with >75% correct



Direct observation

- Point of Education (POE) evaluations
- Based on EPA key functions
- Behavior-based
- Focused on 1-2 skills at a time
- Student-generated via text-based platform



Which EPA's for direct observation?

- EPA 1: gather a history and perform a physical examination
- EPA 3: order and interpret common diagnostic and screening tests
- EPA 6: provide an oral presentation of a clinical encounter
- EPA 9: collaborate as a member of an inter-professional team



Point of Education Evaluations

CREATE EVALUATION

SELECT CLERKSHIP:
Internal Medicine

SELECT EVALUATOR:

SELECT STUDENT FROM ROTATION 6:

ORDER AND INTERPRET DIAGNOSTIC TESTING

- Gathered and prioritized data according to the patient's illness
- Interpret results of basic studies appropriately.
- Order tests, analyze and communicate results appropriately.

PROVIDE AN ORAL PRESENTATION OF A CLINICAL ENCOUNTER

- Gathered and prioritized data according to the patient's illness
- Present cases to colleagues appropriately.

SUBMIT

EPA 3: Order and interpret diagnostic testing

KF 2: Interpret results of basic studies appropriately.

Knew or independently determined appropriate ranges for results.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
Interpreted results accurately based on known or provided ranges.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No
Evaluated urgency of results.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
Eliminated common insignificant or explainable abnormalities.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
Accounted for sensitivity, specificity and PPV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A



Key Features Exam

- Developed by Valerie Lang and folks at Med U (Now Aquifer)
- Test of clinical reasoning vs. pure fact-based knowledge
- For this pilot phase ,“pass” set at 2SD below mean from national sample (Lang et al.)
- Piloted exam with local clerkship directors, deans and 35% appeared to be reasonable for passing/borderline competent student



May 1, 2017



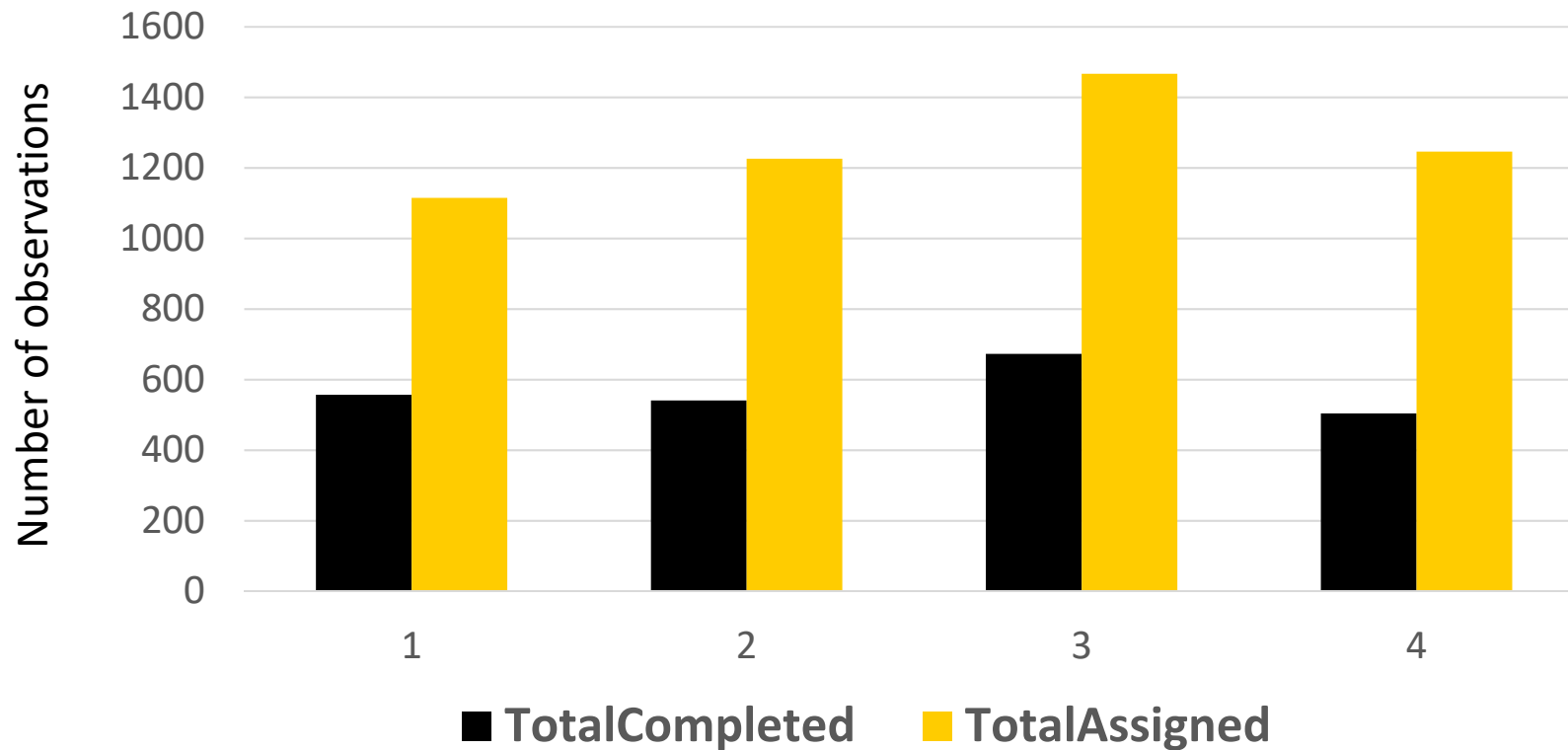
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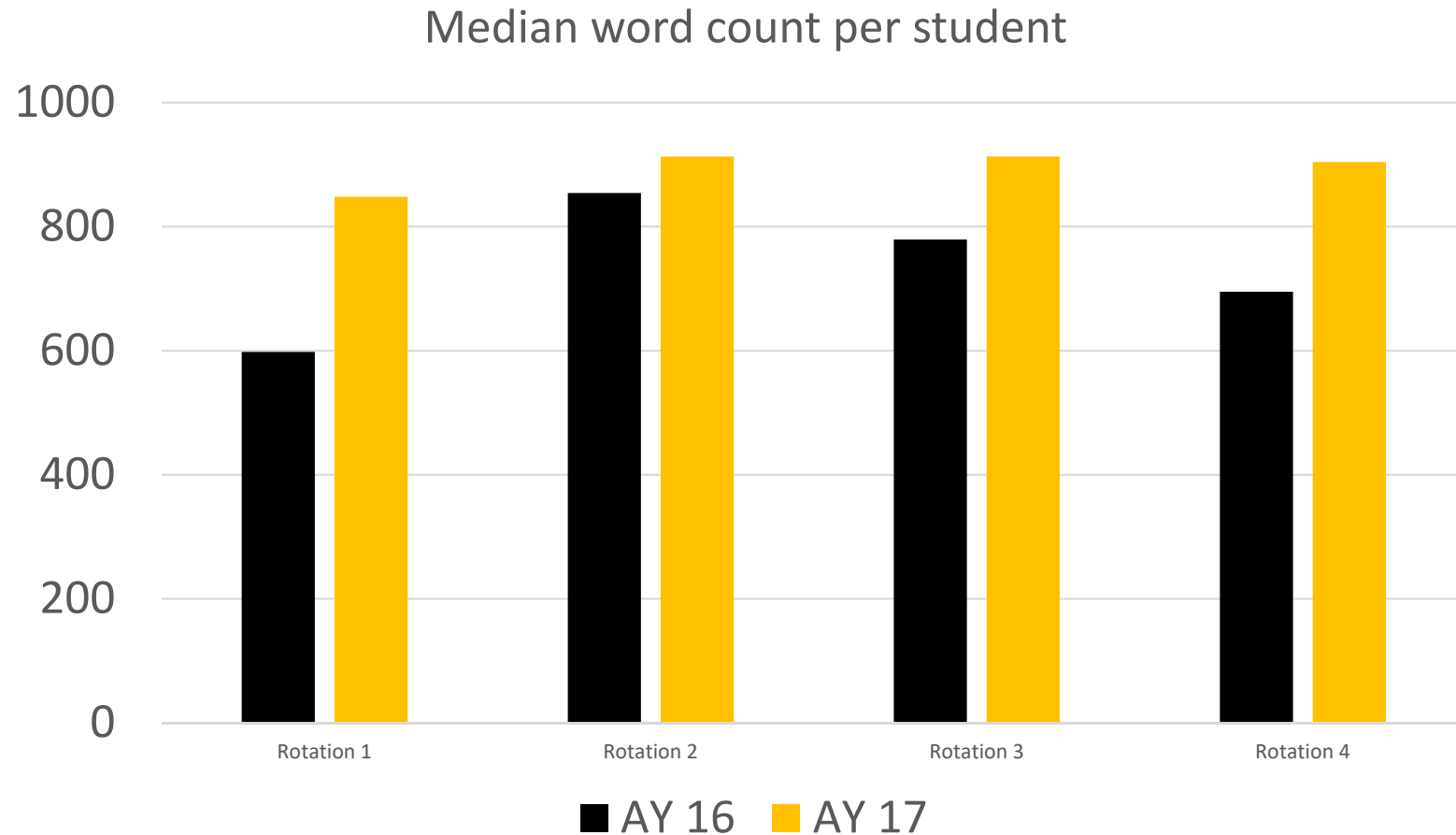
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Direct observations

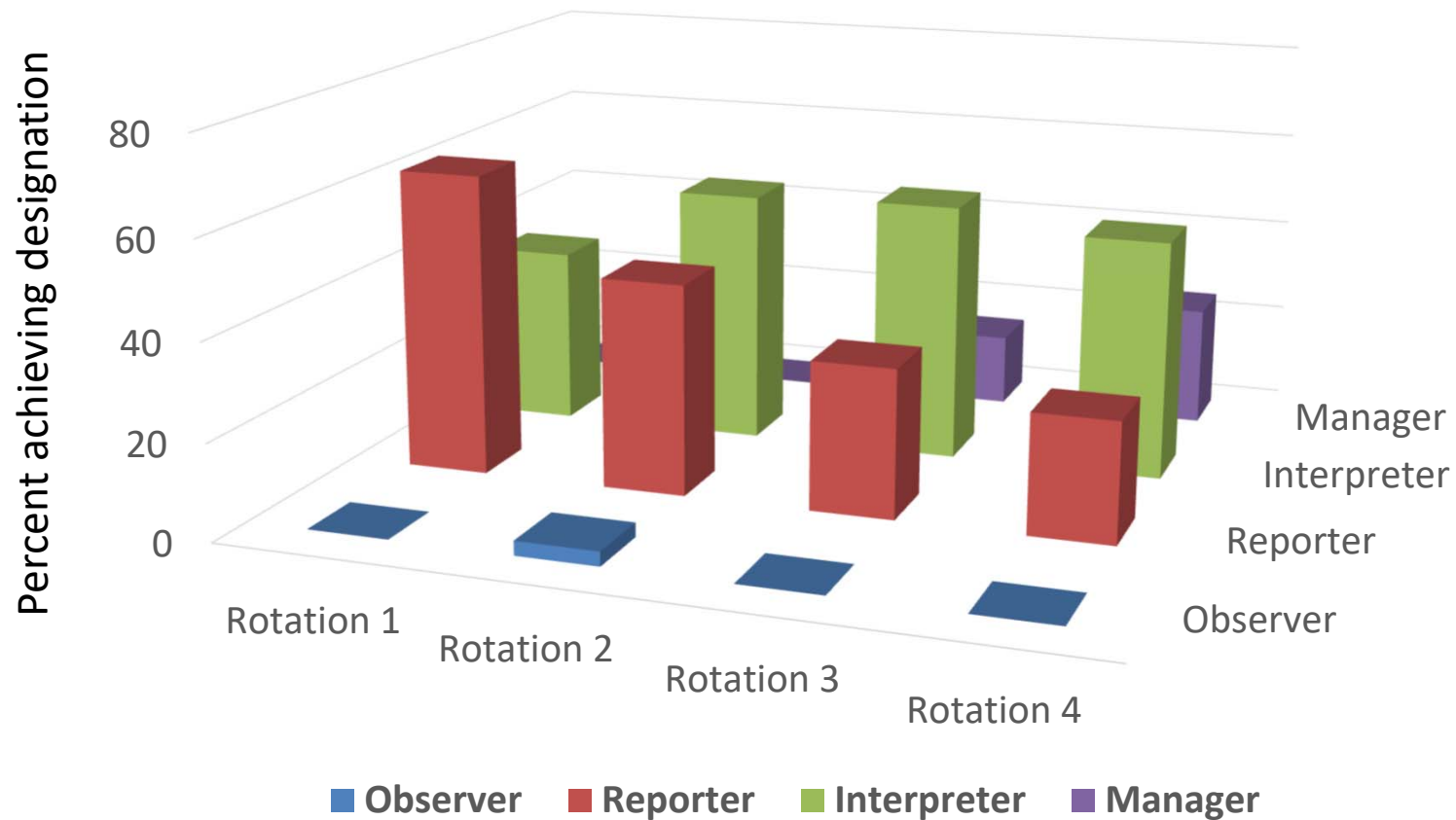
POE's by rotation



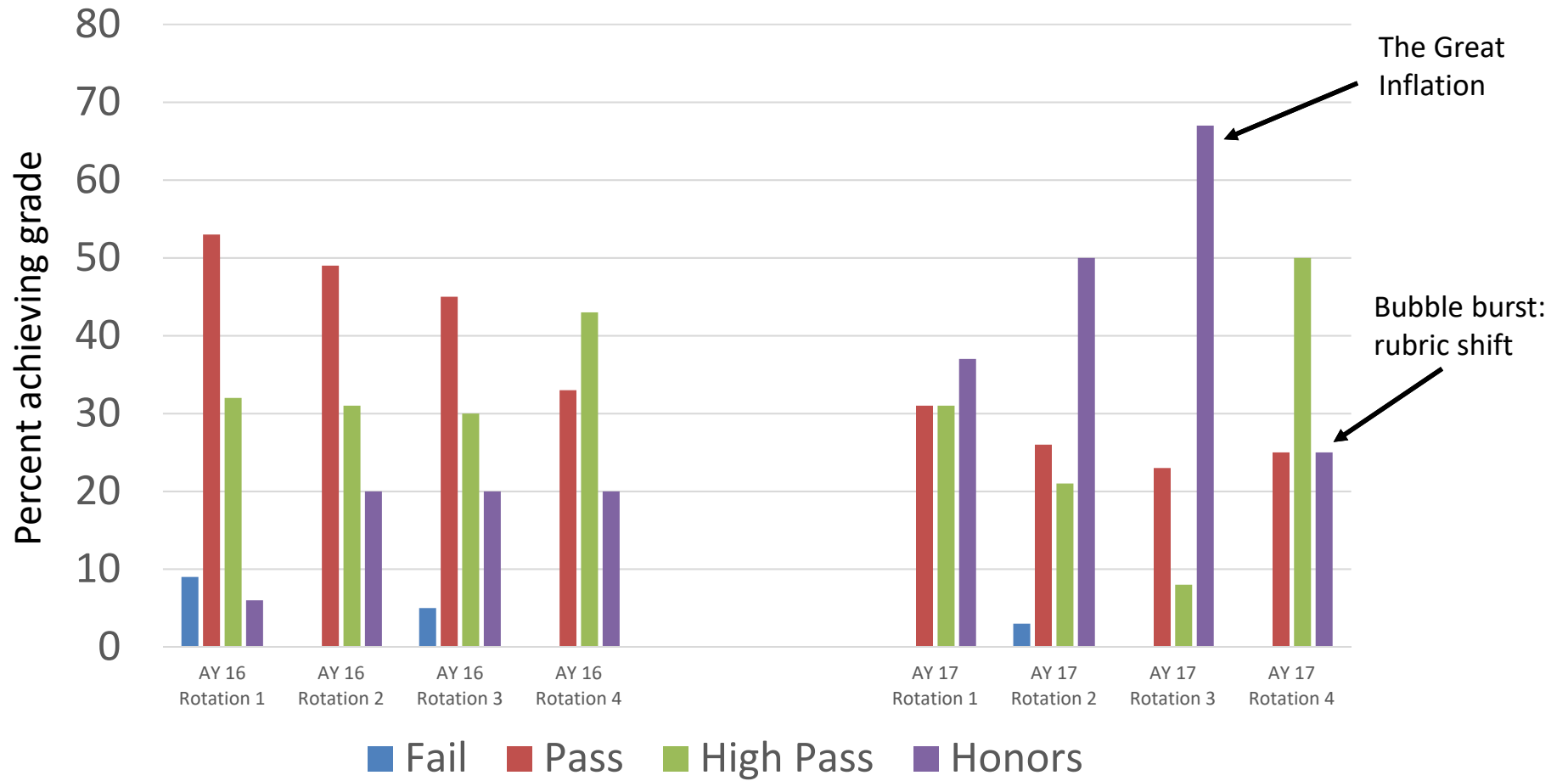
How much feedback did they get?



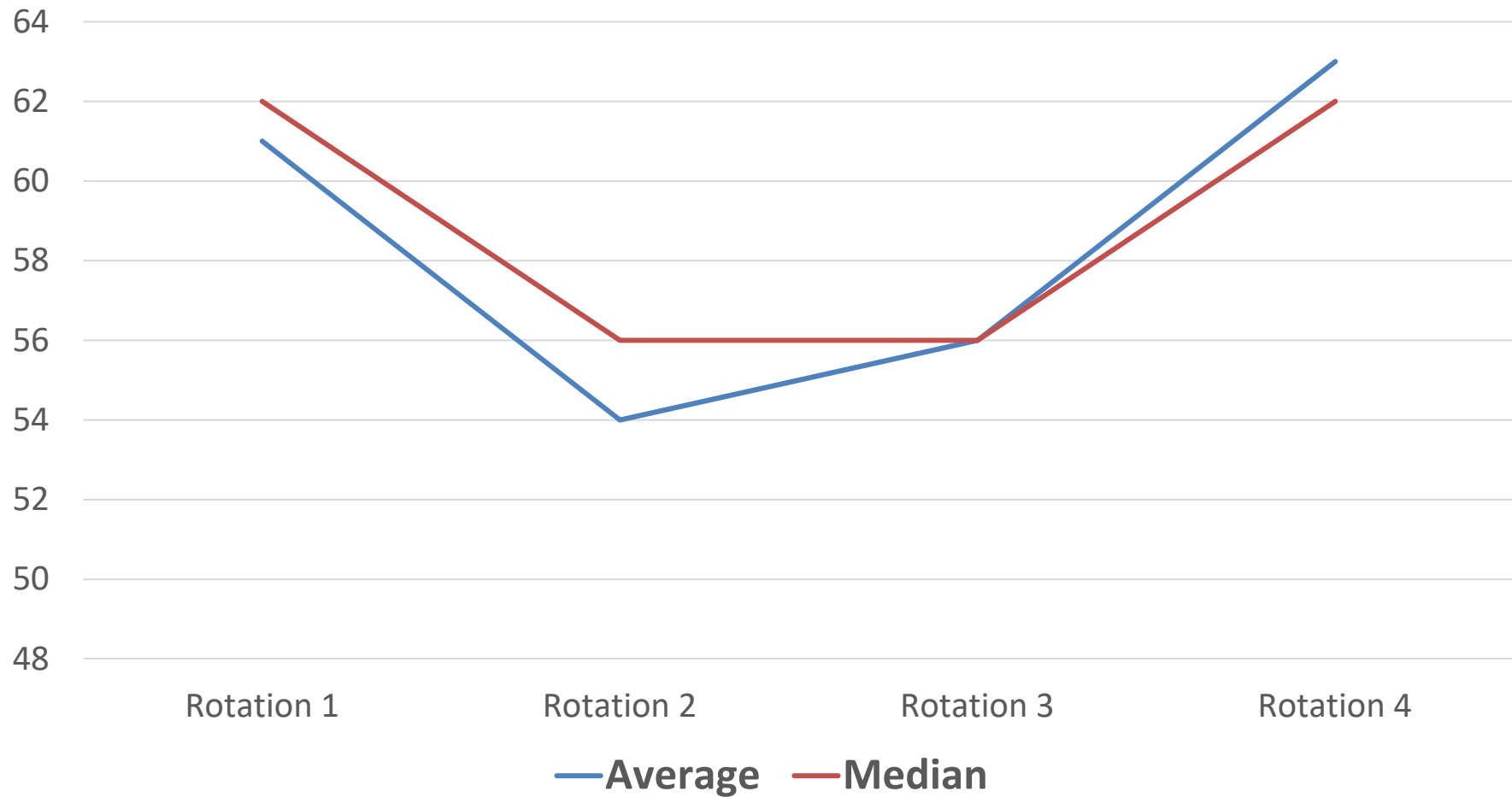
ORIME designations



Grade outcomes by rotation and AY



Key Features Exam Scores



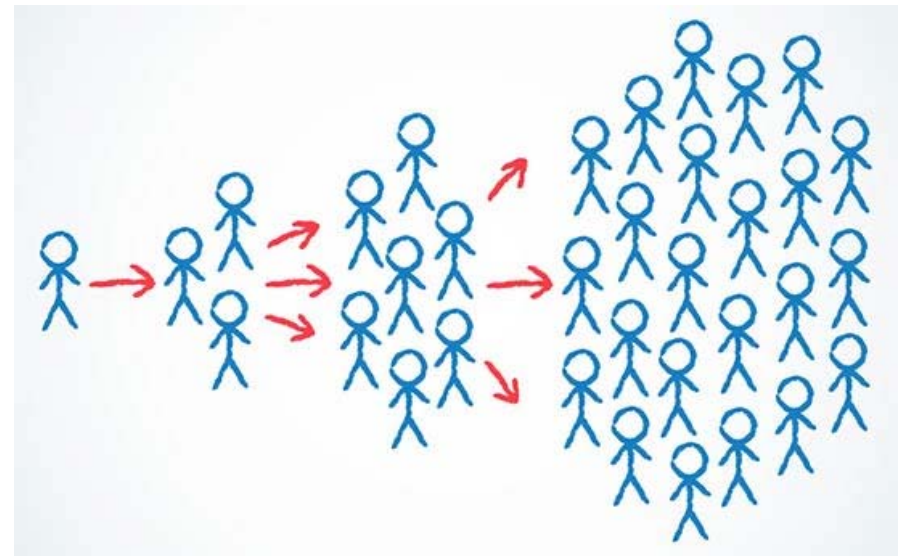
Conclusions

- Successfully transitioned to criterion-based, narrative-focused grading structure
 - The IM clerkship did not devolve into chaos without a number-based evaluation or a shelf exam
- Attempting to “correct” for timing bias is fraught with unintended consequences and should be approached carefully
- Total feedback is increased
 - Anecdotally it is high-quality and actionable per student reports
- Getting faculty/residents to perform direct observations is challenging
 - Requires ongoing reinforcement at evaluator and student level
 - Other evaluations/demands on evaluator time MUST be reduced to off-set direct observation time; we accomplished this by simplifying the summative evaluations



Next steps

- Pilot deemed successful by Curriculum Council
- All clerkships adopted RIME & criterion-based grading
- Faculty development underway across the institution



Thank you!

- Homan Wai, MD (INOVA clerkship director)
- Stephanie Call, MD MSPH
- Allison Dubinsky
- Gilda Harris-Howard
- John Nestler, MD
- Joel Browning
- Brie Dubinsky
- Thomas Bryan
- Gilda Harris-Howard





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V I R G I N I A C O M M O N W E A L T H U N I V E R S I T Y