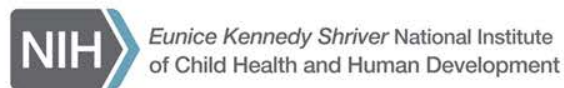


Funding the Best Science

NICHD Payline Discussion
Options to Optimize...

January 2016





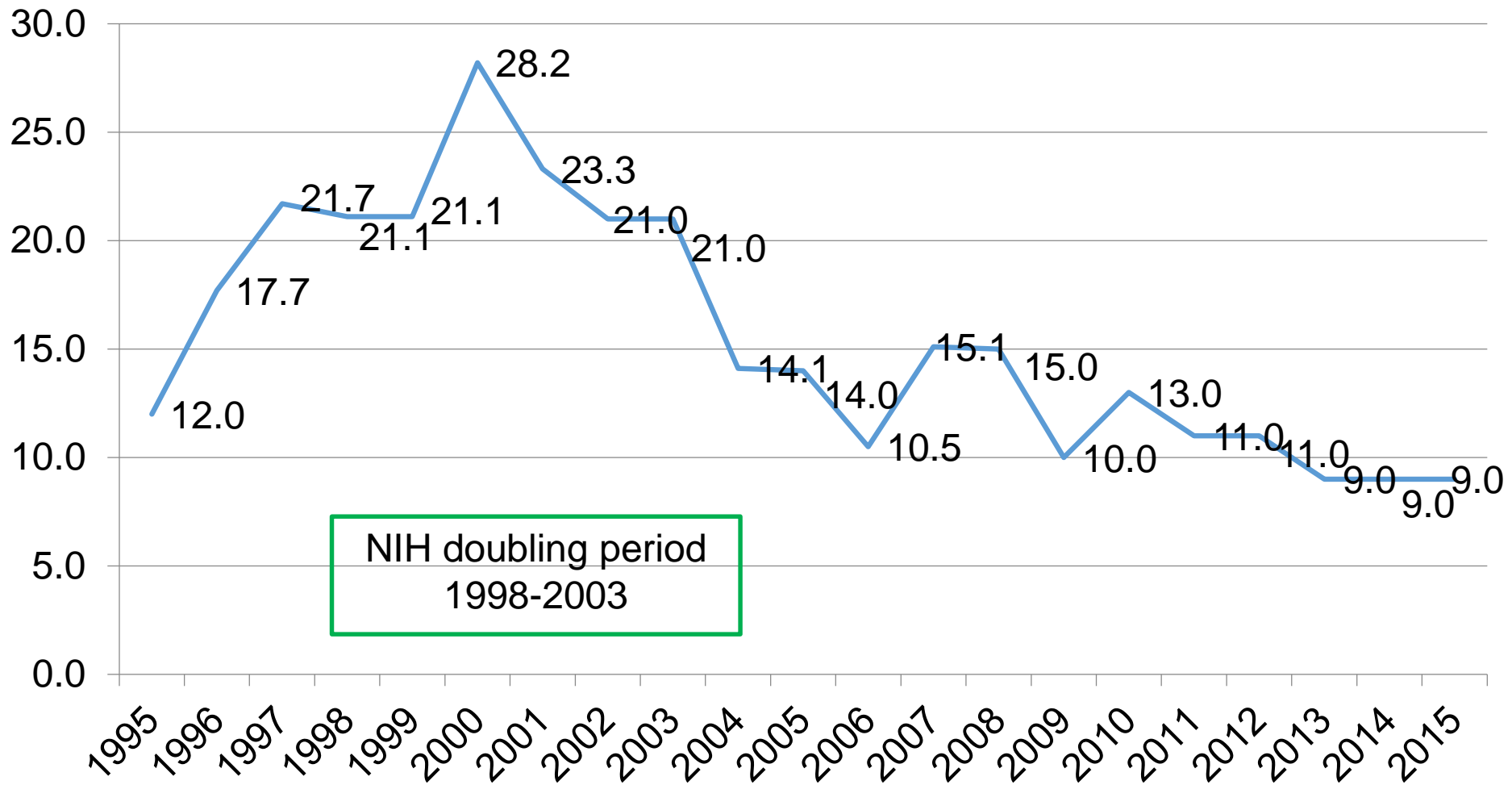
Our grantees don't like our payline

We aren't that keen on it either
But most important is to fund the best science

Let's talk

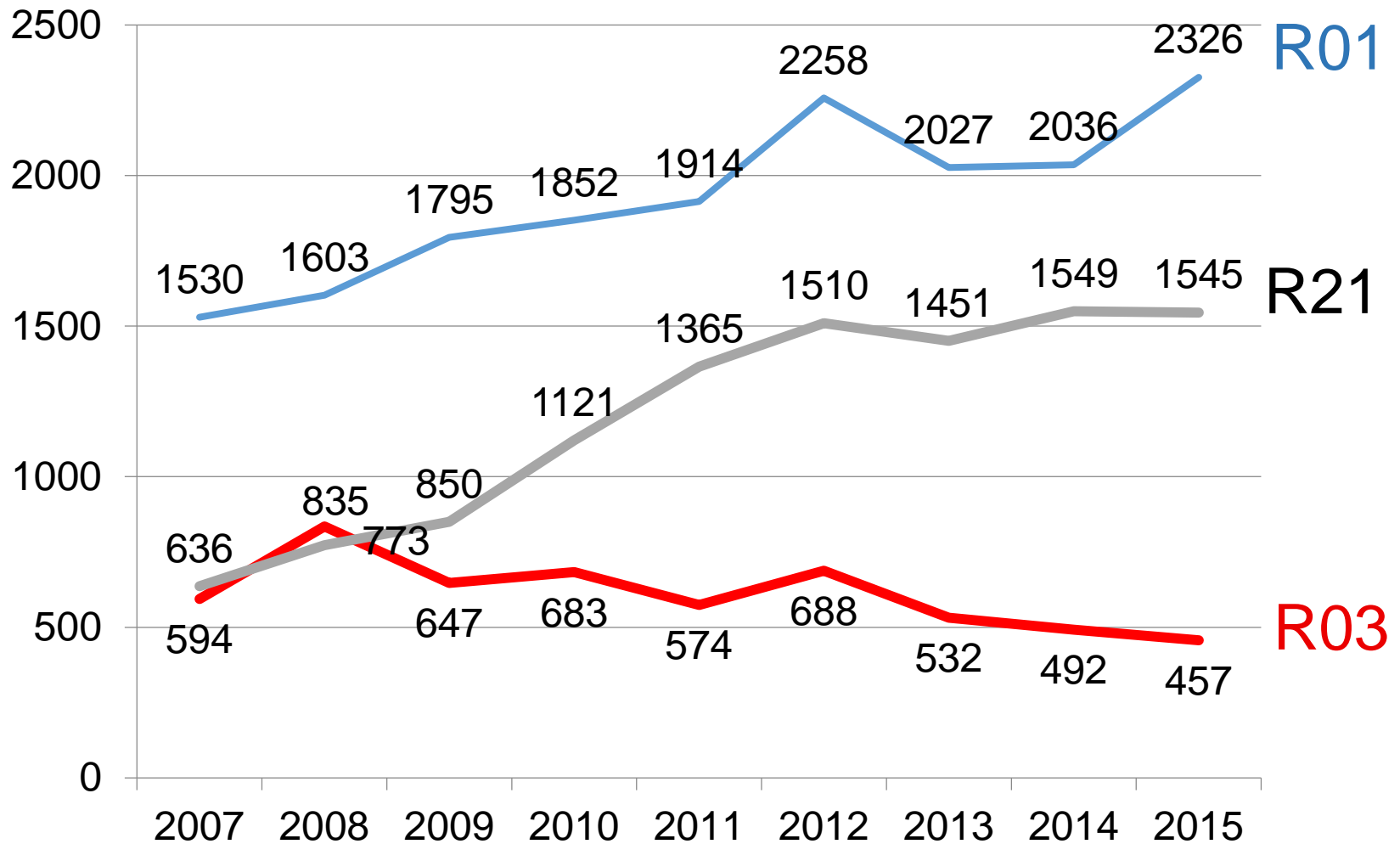


NICHD Historical Paylines, R01s



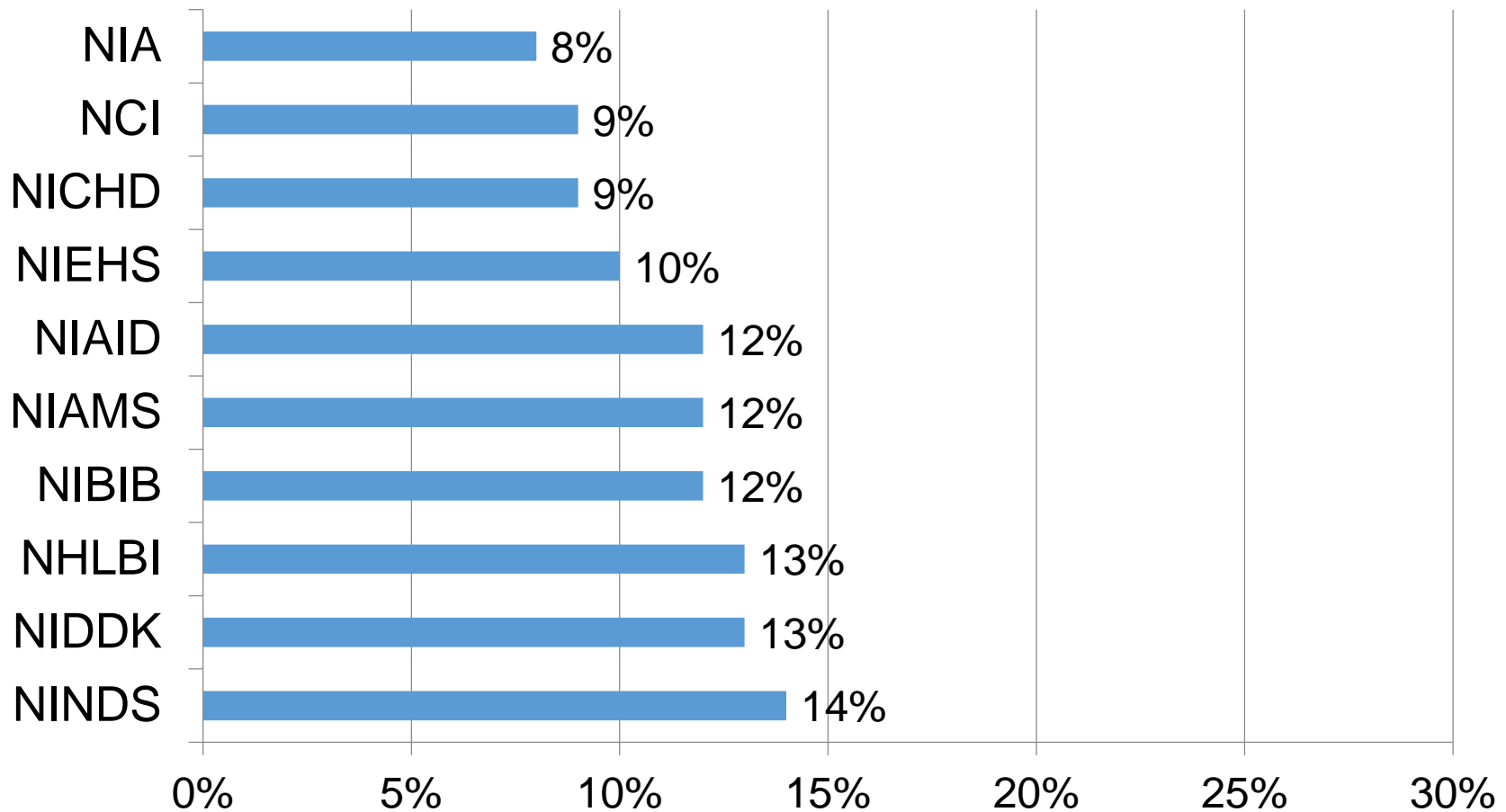


Application Trends





NIH R01 Paylines (2015)

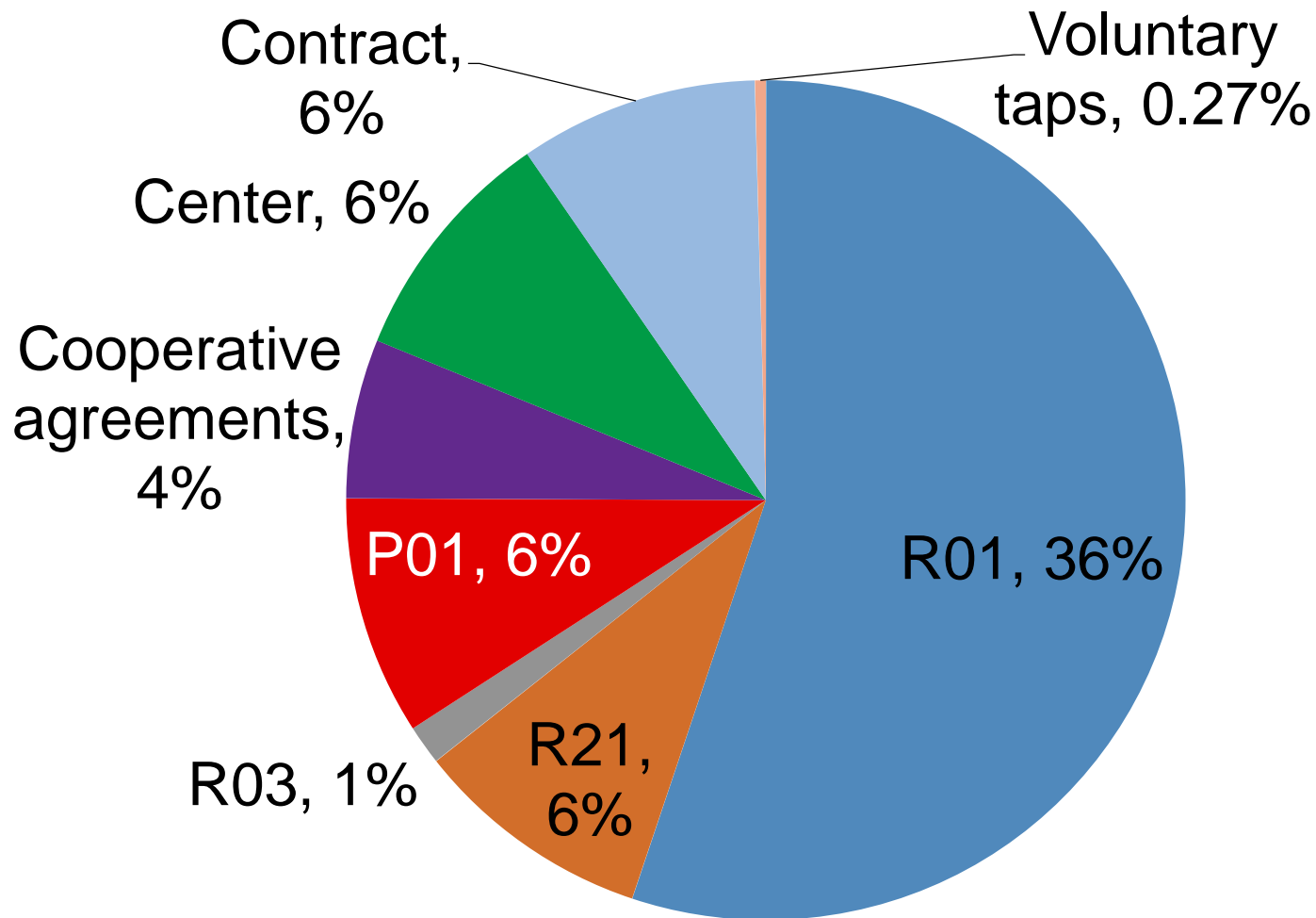


Payline Components

- Grants
 - RPGs
 - R01, R21, R03, P01
 - Cooperative agreements
 - Centers
 - Other
- Contracts
- “Voluntary” Taps



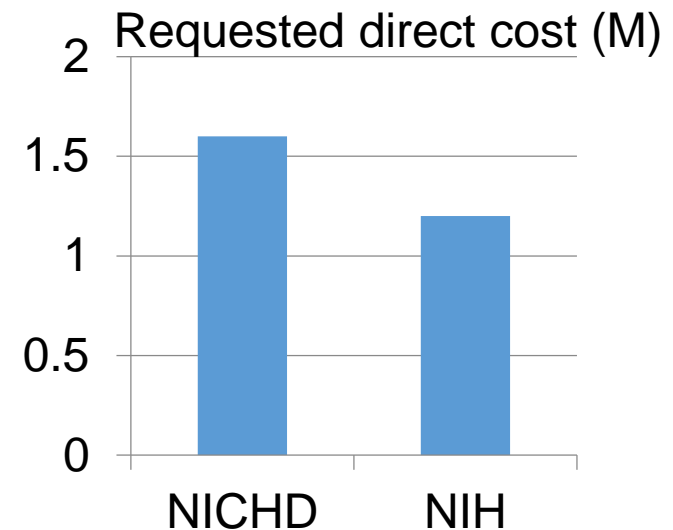
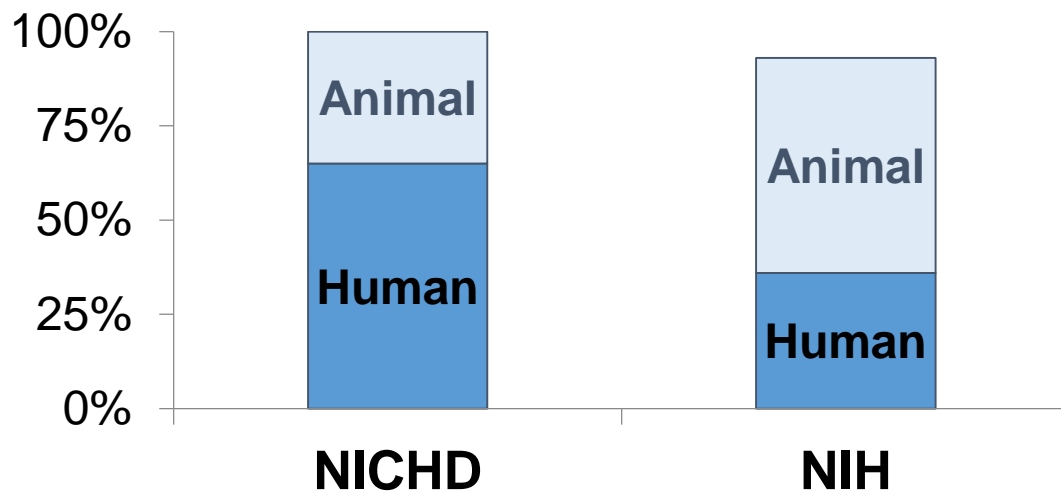
NICHD Components as % of budget





Characteristics of scored applications

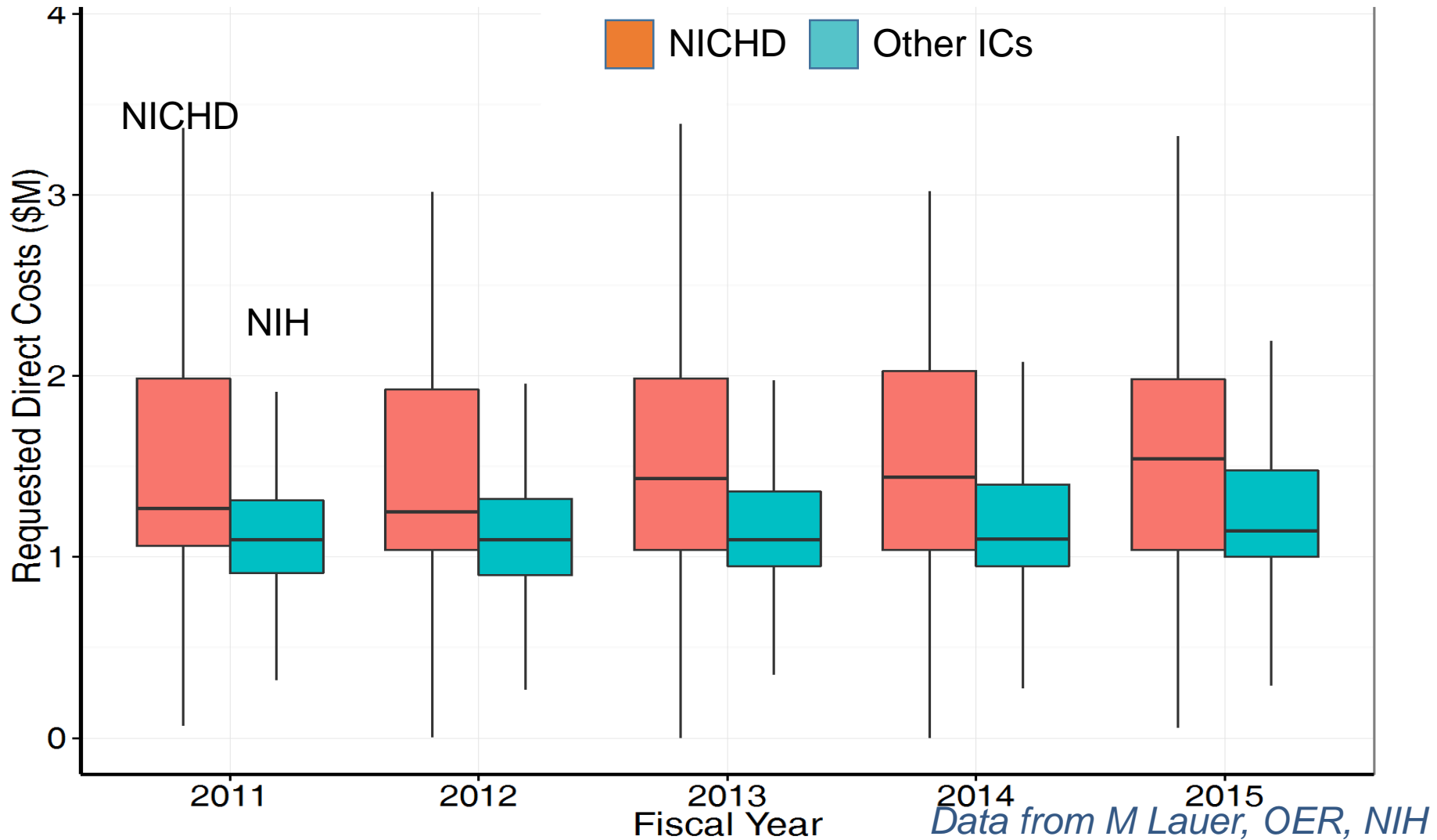
Human Study	65% (2836)	36% (26855)
Animal Study	35% (1517)	57% (42671)
Requested Direct Costs (\$M)	1.2 1.6 2.4	1.2 1.2 1.8



Data from M Lauer, OER, NIH

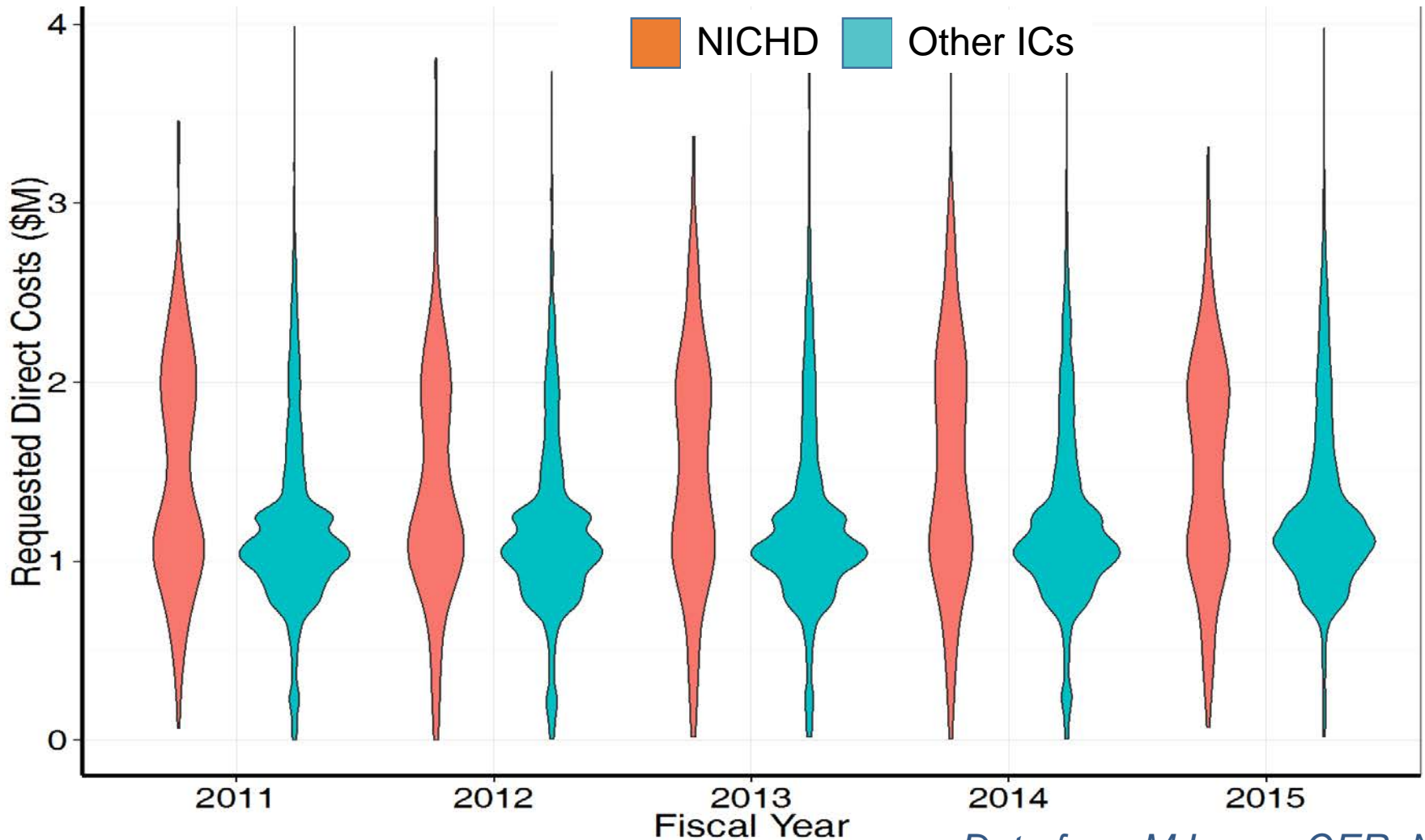


R01 direct costs: NICHD higher and increasing

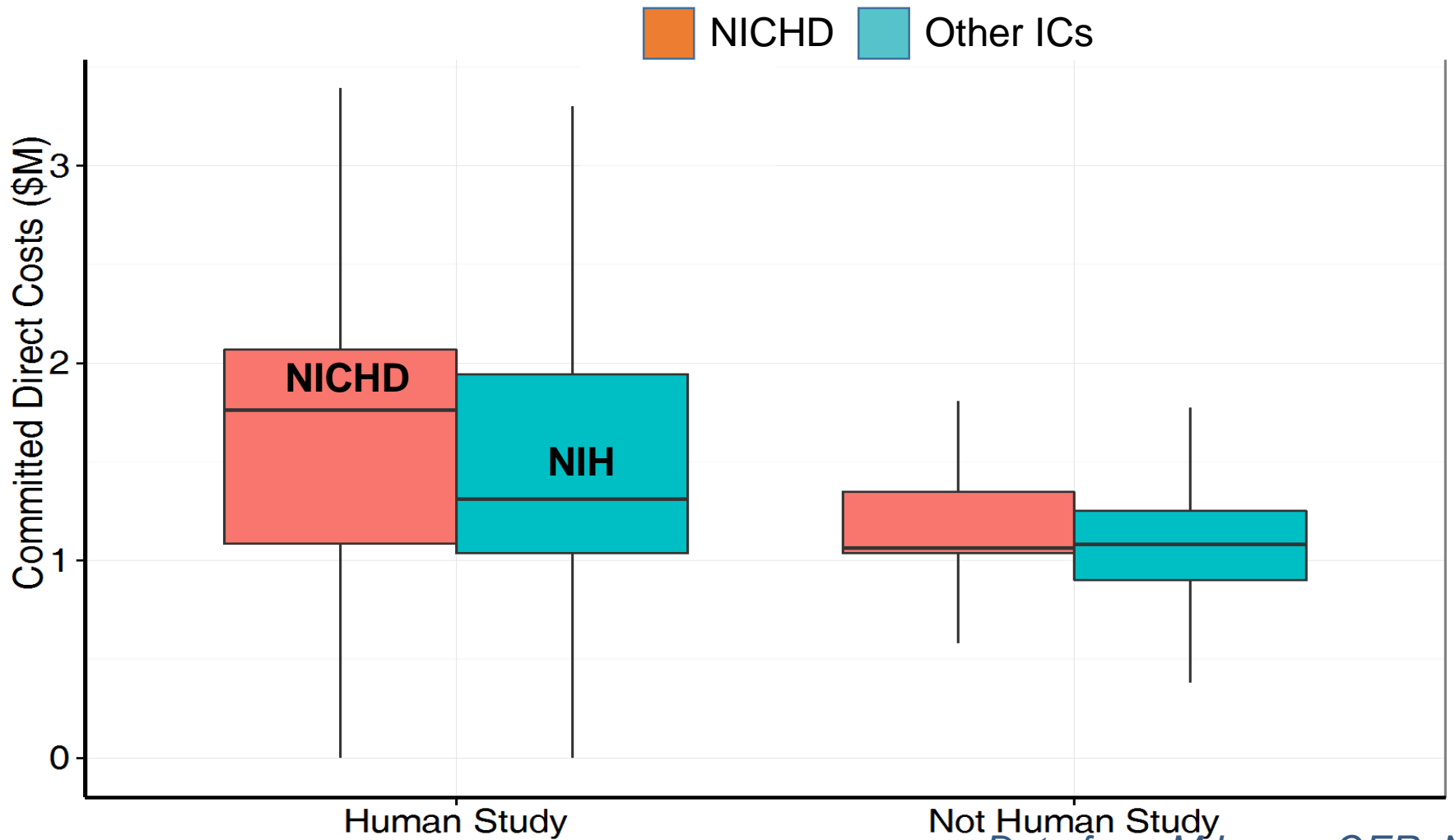




R01 direct costs: NICHD higher and bimodal



Data from M Lauer, OER, NIH



Data from M Lauer, OER, NIH



Summary of NICHD funding

- Payline declined, applications increasing
- No change over time in scores
- Compared to other ICs:
 - More human subjects studies and fewer animal studies
 - Higher requested budgets
 - Increasing over time
 - Higher budgets for human subjects work



NIH Leadership Forum

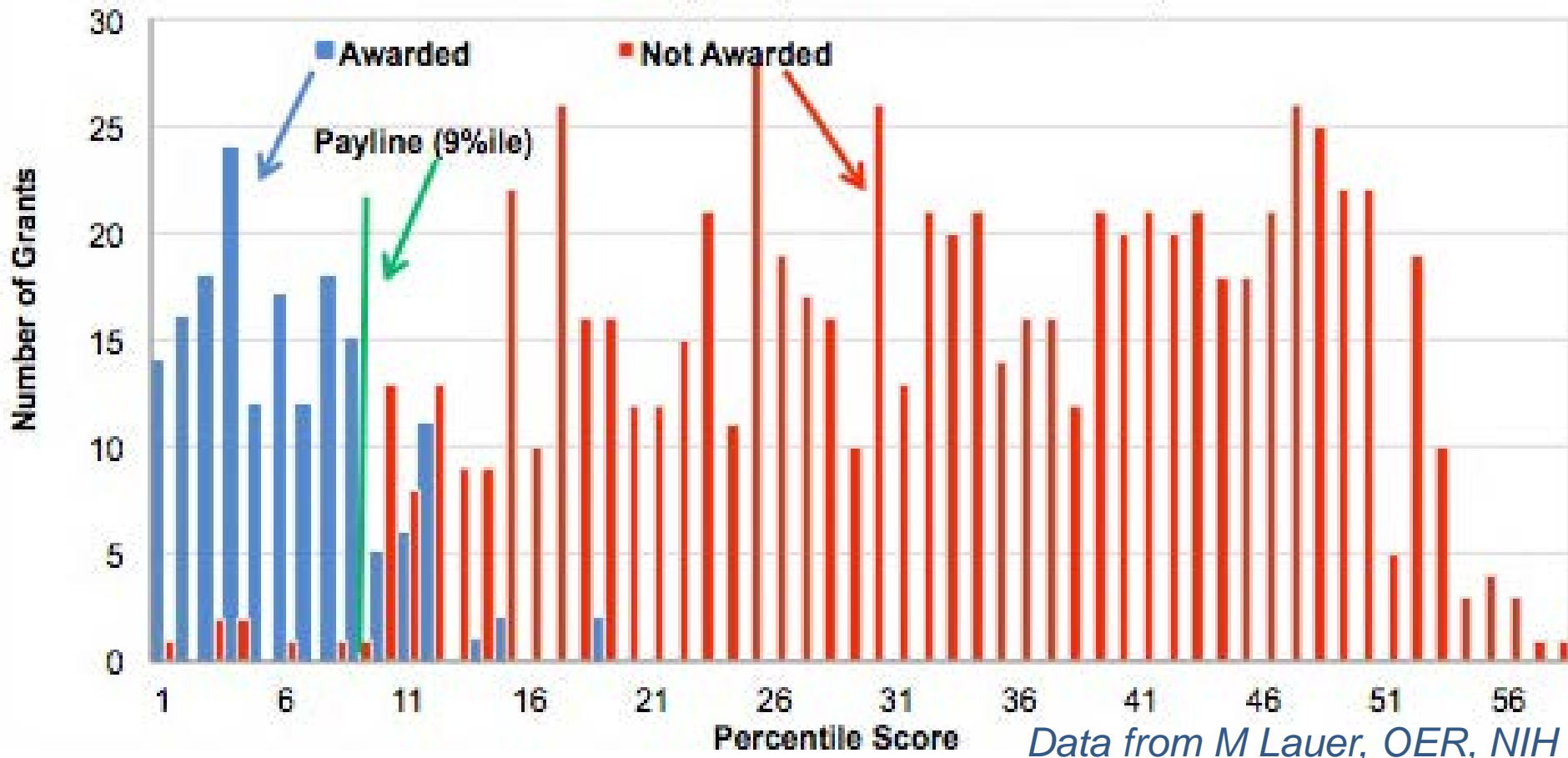
October 2015

- Best practices for making funding decisions
- Efficiency of funding



Spectrum of R01 Grants Awarded

FY 2015; NICHD Unsolicited R01/R37 grants (includes PAs but not RFAs)



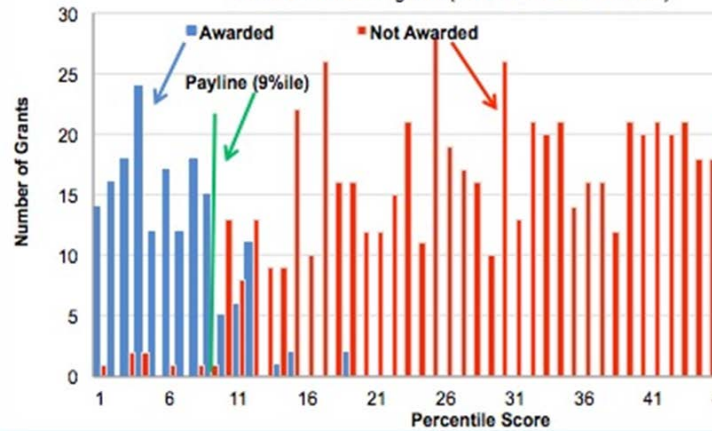


NICHD

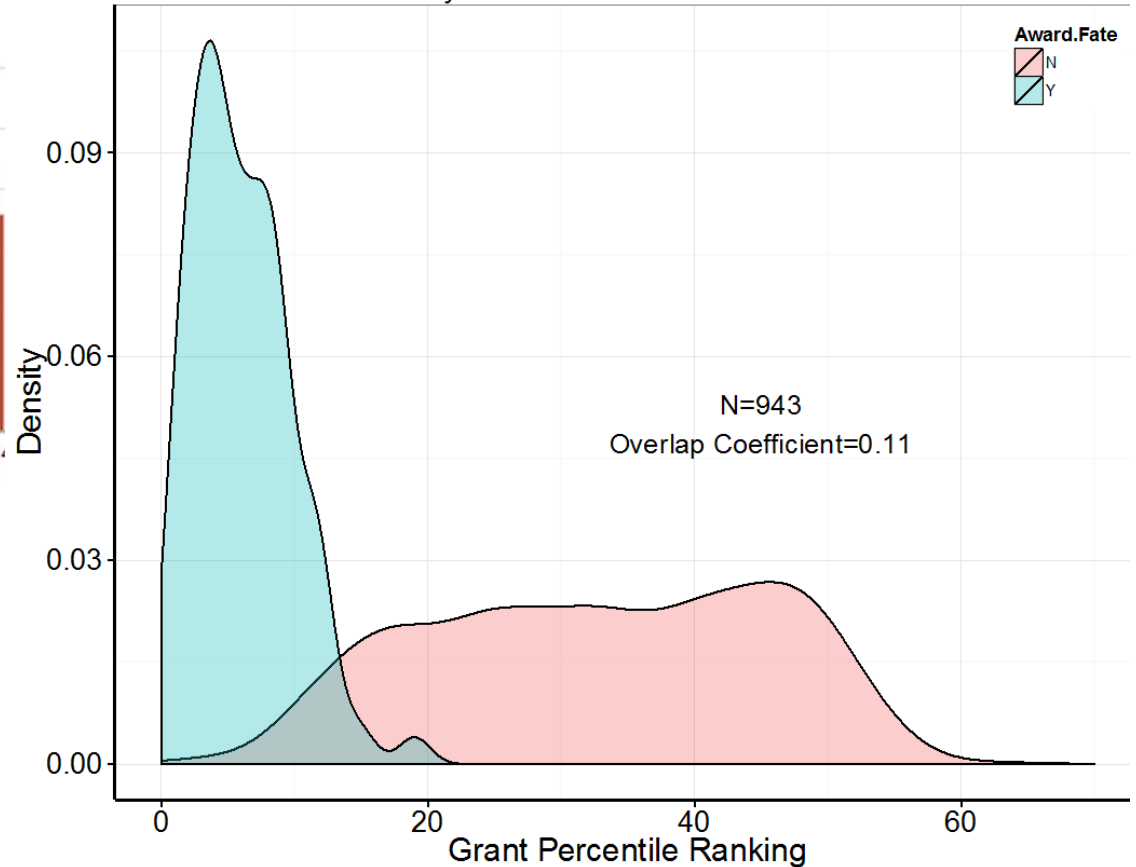
Spectrum of R01 Grants Awarded

FY 2015; NICHD

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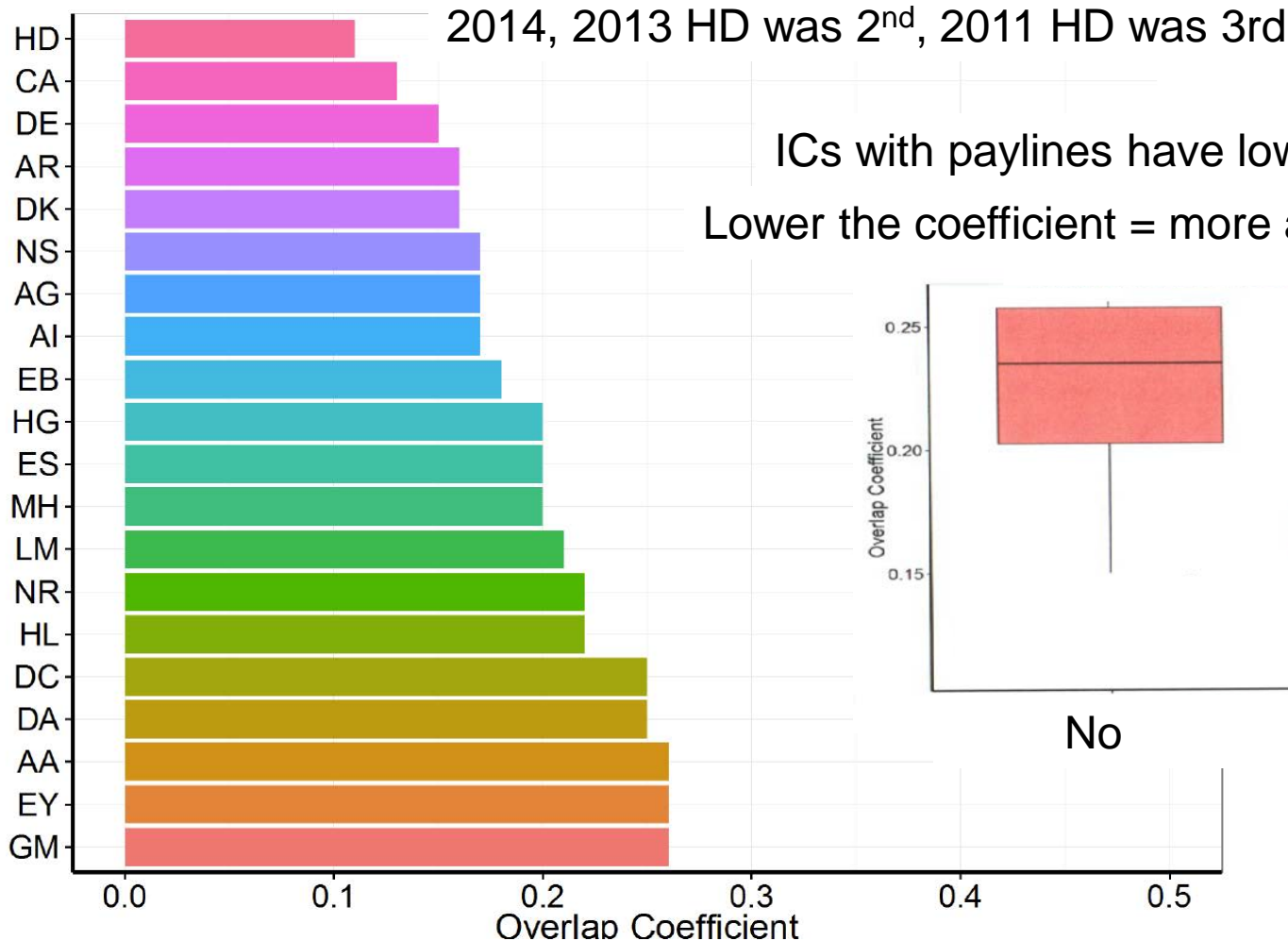
Kernel Density Distributions for NICHD R01/R37 Grants



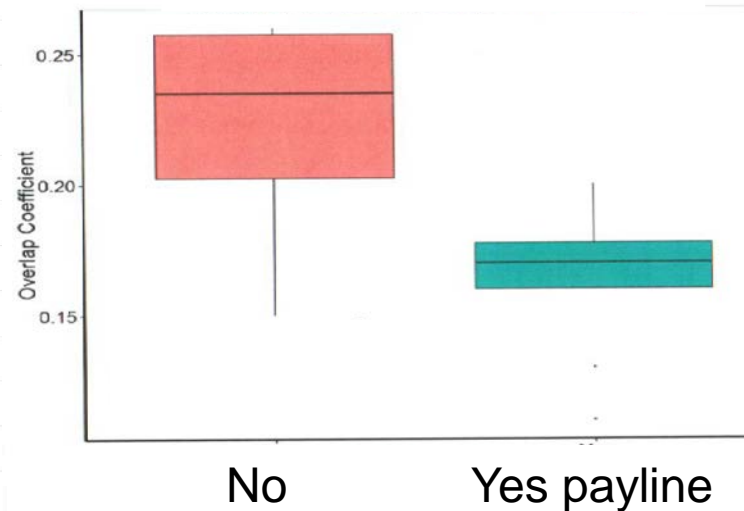
Data from M Lauer, OER, NIH



NIH Award Overlap Coefficients (2015)



ICs with paylines have lower coefficients
Lower the coefficient = more adherent to payline



NIH Findings

- NIH Strategic plan discusses funding strategy
- ICs are more similar than different; more consistency across ICs than expected
- Recommendations
 - Consider PI minimum time
 - Consider limit # grants/PI
 - Select pay – best science

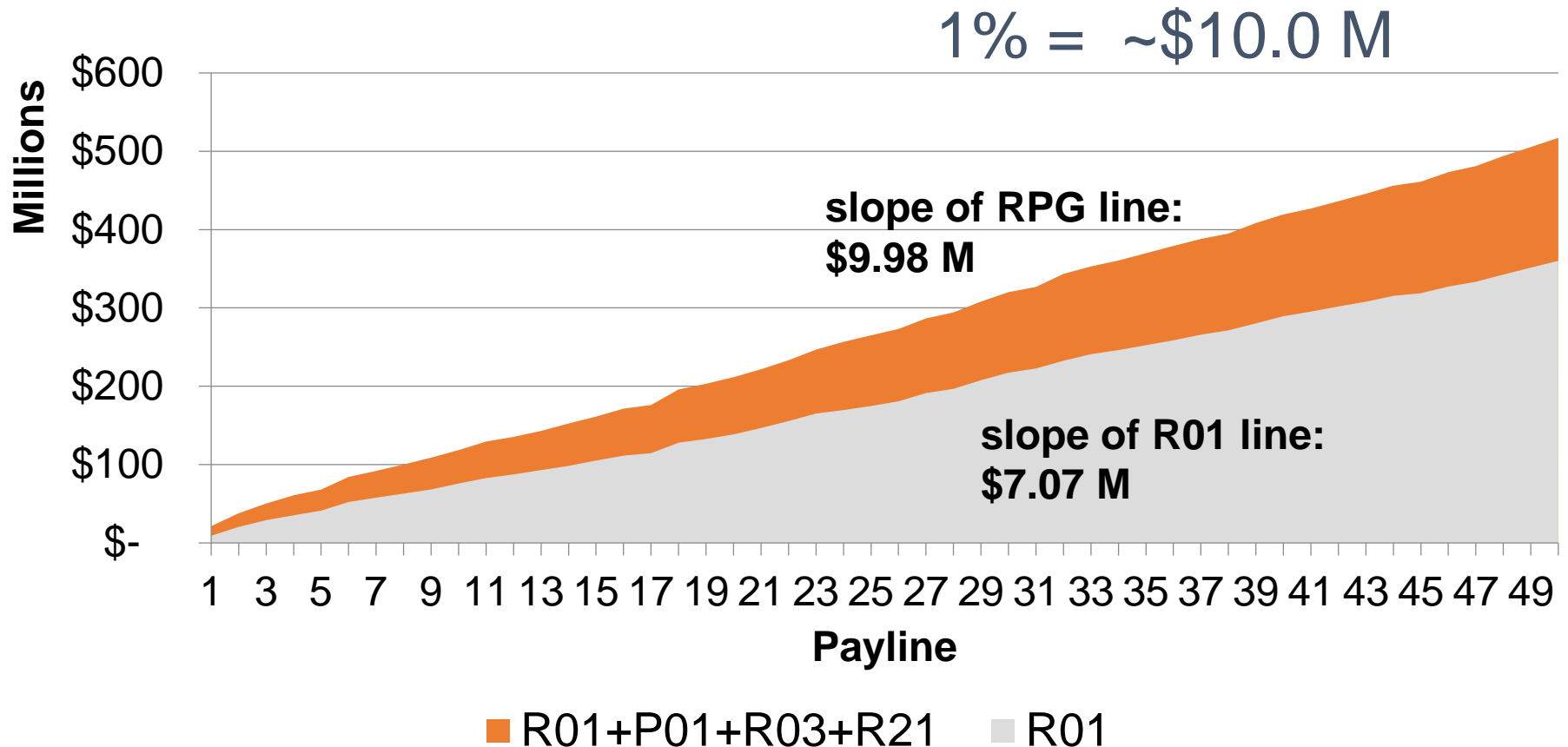
The logo for the National Institutes of Child Health and Human Development (NICHD) is located on the left side of the slide. It features a light blue background with a pattern of overlapping, curved, concentric lines that resemble a stylized brain or a series of waves. The text "NICHD" is written in a bold, blue, sans-serif font.

NICHD

What is needed to fund the
best science?



NICHD Funding Level and Payline



based on 2014 data



Implementation

- Tighten referral guidelines
- Tighten transfer acceptance
- Clinical trials by FOA
- Stricter methods for large grant acceptance
- Limit PA, PAR, and secondary assignments



Additional Considerations

- Stringent on > \$1M applicants
- Limit long-standing grants
- Limit duration of awards
- P01s by FOA (no parent FOA)
- Limit mechanisms
- Examine larger programs to find savings
- Limit # awards to a PI; Require higher % effort



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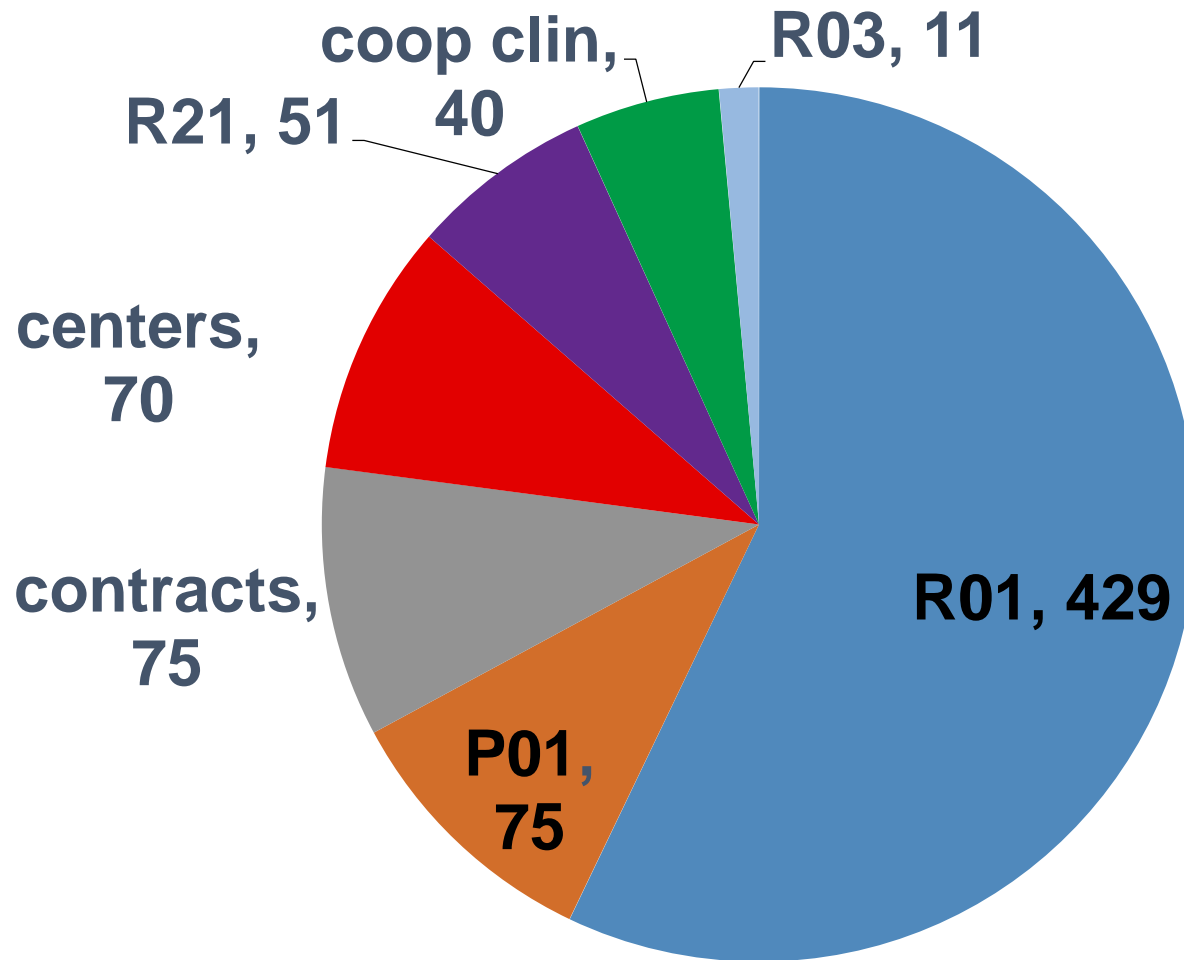


Additional Considerations

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2014 NICHD Funding by Mechanism (M)



~\$10M to move payline by 1%



Additional Considerations

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- Limit mechanisms
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Top NICHD programs by FY 15 Funding

Westat Pediatric-Maternal HIV/AIDS
Adolescent Medicine Trials Network
IDD Centers
NCTRI (formerly SCCPRIR)
Maternal Fetal Medicine Units
Neonatal Research Network
Human structural birth defects
Leadership for HIV/AIDS clinical trials
Autism Centers of Excellence
Population Research Infrastructure
Contraceptive Clinical Trials Network
Pediatric HIV/AIDS cohort study
Learning disabilities centers and hubs
Global Network
Pelvic floor disorders network

Top 15 programs: \$196.4 M (16% of total budget)

Non AIDS \$119.7 M (10% of total budget)

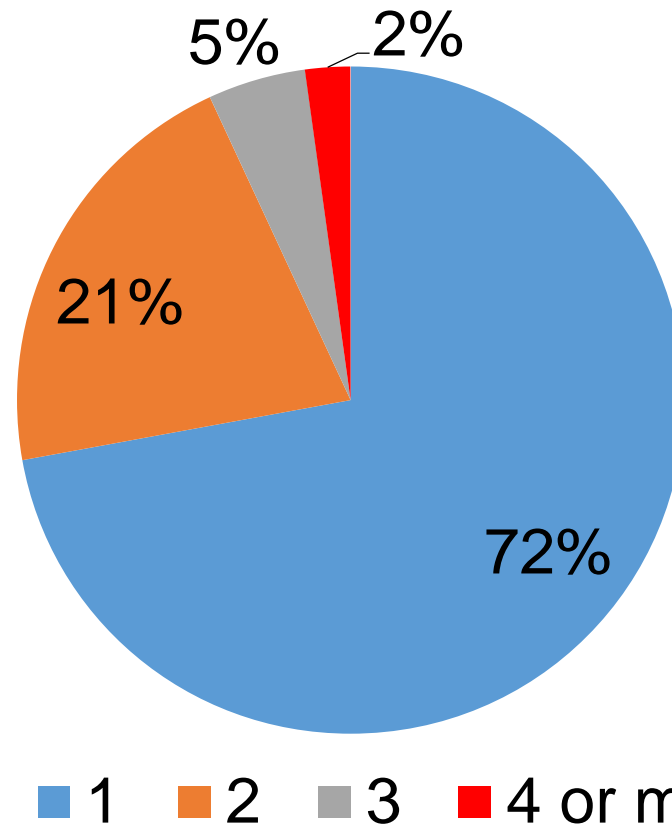


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NICHD R01s FY2014 (n=1225)



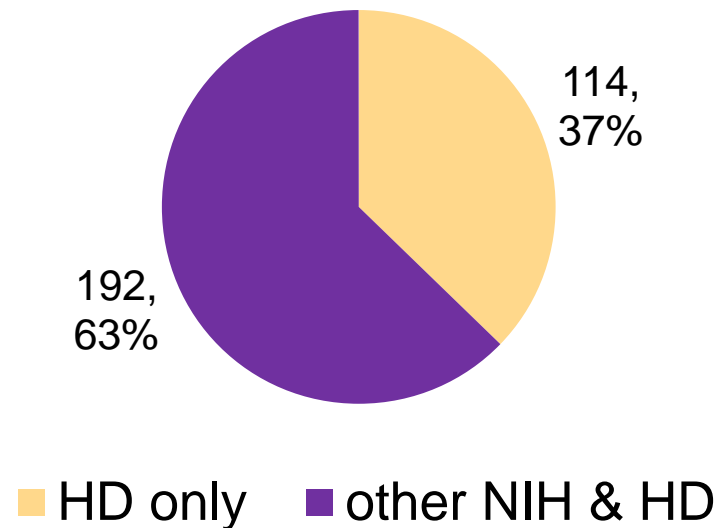
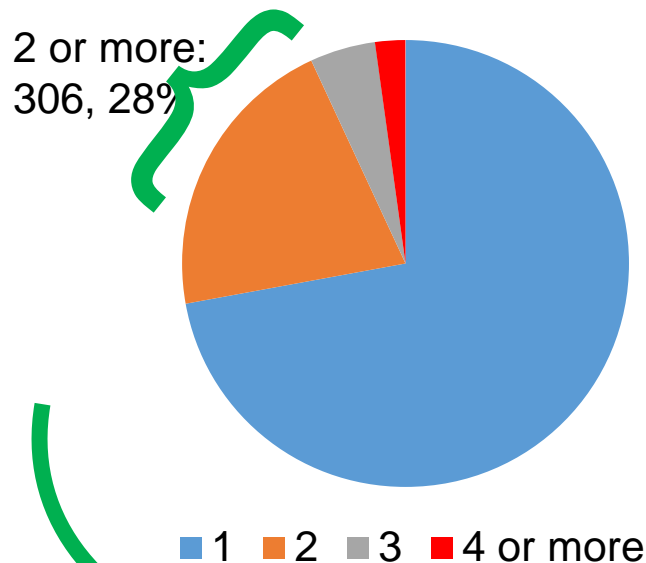
17.5% had R01s from other ICs



NICHD R01 PIs with multiple NIH R01s

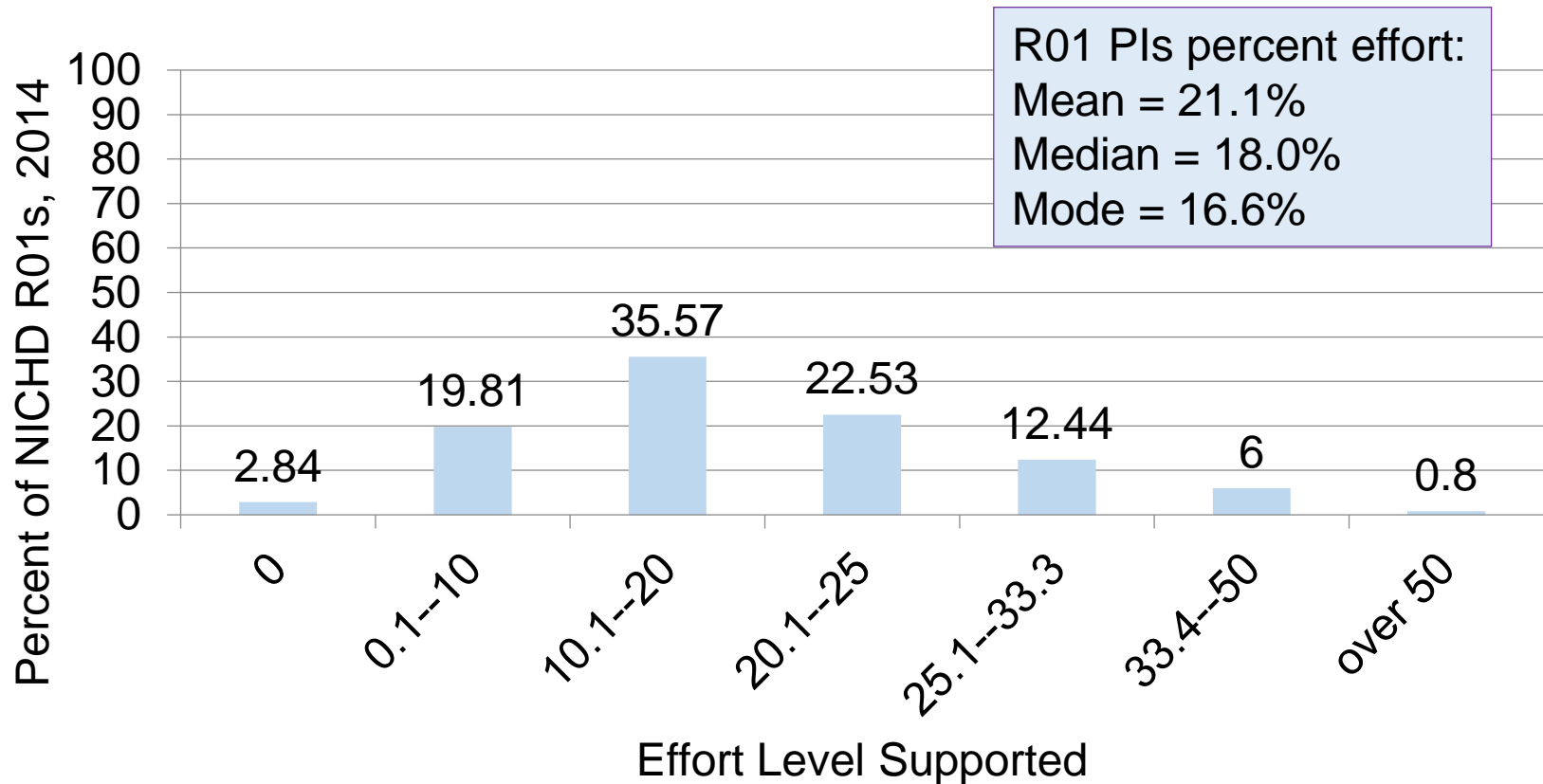
306 NICHD PIs with ≥ 2 R01s

- 37% (n=114) only NICHD R01s
- 63% (n=192) had R01s from other NIH ICs as well as from NICHD





PI Percent Effort Supported on NICHD R01s, 2014





Funding the Best Science

- Flexibility for discretionary funding
- Identify savings by being more strategic about our investments in:
 - Mechanisms
 - # awards / investigator
 - Large programs
 - Acceptance of large grants
 - > 1M reviews
 - Participation in FOAs



Goal: Funding the Best Science



NICHD: R01 Payline & Success Rates

All R01 success rate
Type 1 R01 success rate

