Successful Interventions at Scale: The Importance of Managers

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Motivation

- Children are in school but **not learning**
- Once children fall behind they **cannot catch up**
- Learners of **many learning levels** are in the same grade level
- Not an exclusively **Ghanaian** problem

Potential solution that is **government implemented**, **scalable**, working within **existing government systems**?
RCT of Teacher-led Targeted Instruction in Ghana

- **Student learning increased**, ~1/3 of a year of schooling in one school year (0.11SD increase)
- **Teachers implemented** the program (60% on spot checks)
- **Head Teachers** (principals) and **Circuit Supervisors** conducted longer, more useful classroom observations
- **Similar findings with and without management training**
Why Teacher-led Targeted Instruction?

- Teacher-led Targeted Instruction—teach students at their learning level instead of their grade level for part of each day
- India: improved learning only when implemented with close NGO supervision and a new instructional hour (Banerjee et al. 2017)
- Ghana: marginally improved learning, issues of implementation (Duflo, Kiessel, and Lucas 2020 aka TCAI)

Can (national, local, school-based) managers be the catalysts for improving student outcomes? (relevant beyond education sector)
STARS: Strengthening Teacher Accountability to Reach All Students

- Worked with **within existing systems**
- **Government owned from start**—tripartite program among the Ministry, UNICEF, and IPA (and researchers)
- **Existing MoE structures and personnel** (GES, NaCCA, NIB, NTC, BED)
  - Developed the materials
  - Trained the trainers
  - Trained the teachers, head teachers, and circuit supervisors
  - Provided national monitoring visits
Test It

• Taking something successful to **scale within existing systems**
• **3-arm randomized control trial** (RCT) in 210 schools to learn how to scale

1. **Train teachers** in targeted instruction, new forms for **managers** to **observe** lessons, provide **termly national monitoring** (70 schools)

2. **Treatment 1 + train** their **managers** (head teachers and circuit supervisors) to support them (70 schools)

3. **Control** (70 schools)

• Across 20 districts throughout Ghana
Specific RCT questions:

1. Does teacher-led TI **improve student learning** in upper primary?

2. Can **additional training** of teachers’ managers **increase fidelity of implementation** (and test scores)?

3. Additional **costs and logistics** of engaging managers? (pending)

Data collection during 2018-2019 academic year: baseline achievement, two spot checks, follow-up achievement
Results
Results: Students

Achievement increased equally across both treatments
• On foundational content
  ~0.15SD (1/2 a year)
• On combined foundational and grade level content
  ~0.11SD (1/3 of year)
Results: Implementation

High degree of implementation in spot checks, equal across treatments:

- ~60% of teachers split their students by level instead of grade
- Teachers in the treatment arms were ~12 p.p. more likely to be present in their classrooms (base of 68%)
Results: Managers

Teachers reported
- HT/CS were more likely to spend substantial time in the classroom
- Feedback more likely to be useful
- Feedback tools available to both arms

Broader manager practices? (pending)
Discussion

Treatments improved outcomes but statistically the same across the two treatment arms…

• National Level Monitors
  • Teams from the national level of GES, NTC, NaCCA, NIB, and BED
  • Visited about 88% of schools in each treatment arm each term
  • Signal (this is a government program), District Education Office involvement, accountability

• Classroom observation checklist—dividing students by levels, active pedagogy, classroom engagement

More in progress on this question…
Conclusions

- Teacher-led targeted instruction increased student test scores
  - Equally in both arms, ~1/3 of year of learning, ~0.11 SD
  - 40% more than the previous intervention in half the time
- Teachers implemented the program
- HT and CS more likely to spend time in teachers’ classrooms and provide useful feedback
- National level monitors provided additional supervision and accountability
Thank you...

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To Learn More

- Paper is in process—working paper to be released late summer 2020.
- Be in touch
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