

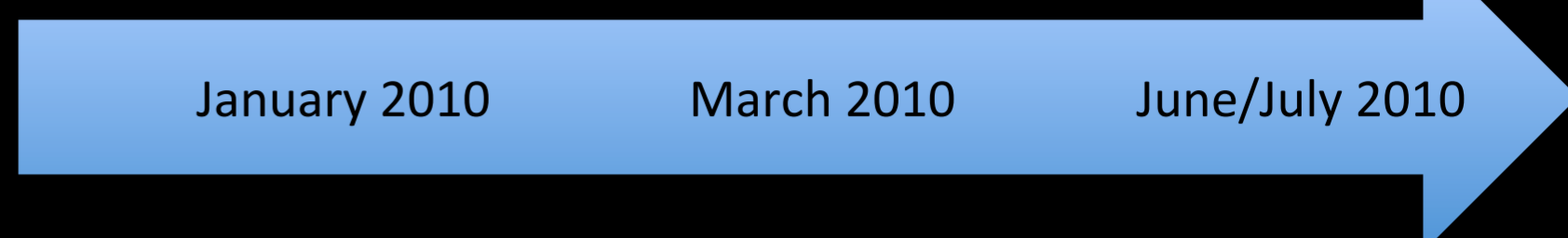
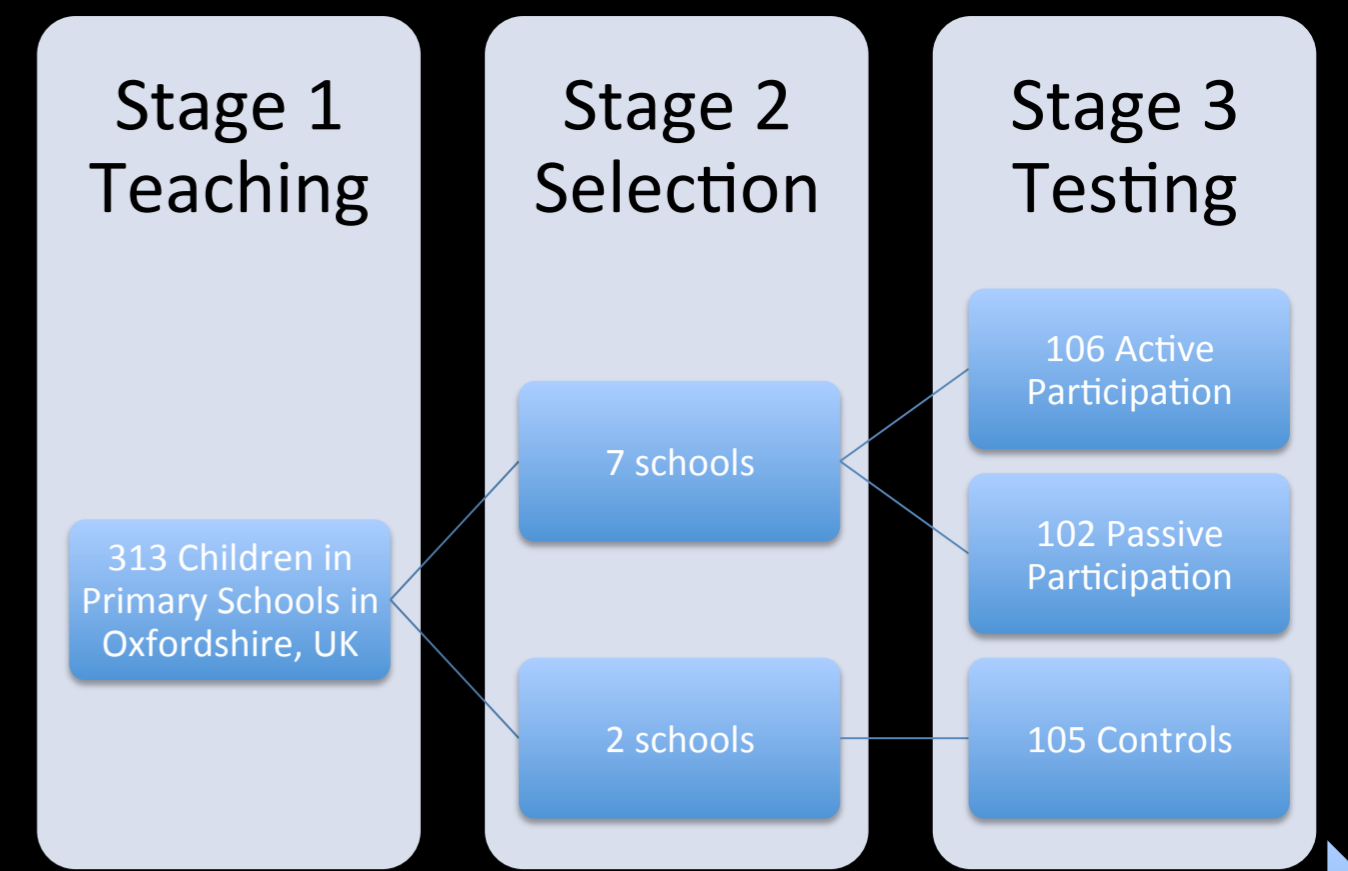
# KIDEFIB – Can children defibrillate?

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## BACKGROUND – How to educate the population in CPR skills

- 1% of population can do CPR – aim for 20%
- EL5 – Aim to teach ALL children
- Joint campaign – Resuscitation Council (UK) – British Heart Foundation Resuscitation Council (UK)
- Teach year 7, every year.
- > 10 years full ELS.
- > 6 years – dialing 999/ 911/ 112/ 000 – calling for help – checking for danger

**Kidefib Scenario**

"You are at the shops. A man collapses in front of you"

[start stopwatch]

Action	Done	Not done	Time
1. Check for Dangers			
2. Response - shake and shout			
3. Shout for help			
4. Open Airway (chin lift/ jaw thrust). Checks for obstruction			
5. Check Breathing - look, listen and feel for 10 seconds			
6. Ask observer to phone for ambulance			
7. Commences CPR. 30 chest compressions			
8. Two rescue breaths			
Someone brings this thing that has something to do with hearts but they don't know how to use it.			
9. Turns on defibrillator correctly			
10. Places pads in a position likely to be effective			
11. Follows defibrillator instruction after shock			
If not delivered shock by 1 minute - stop scenario			
Total			
Time to shock using stop watch			
Safety concern - touching patient while shock occurring, other			
Total			

Candidate: Assessor: Date:

## How to educate? When in England...

No awareness



Passive Awareness



Passive Training

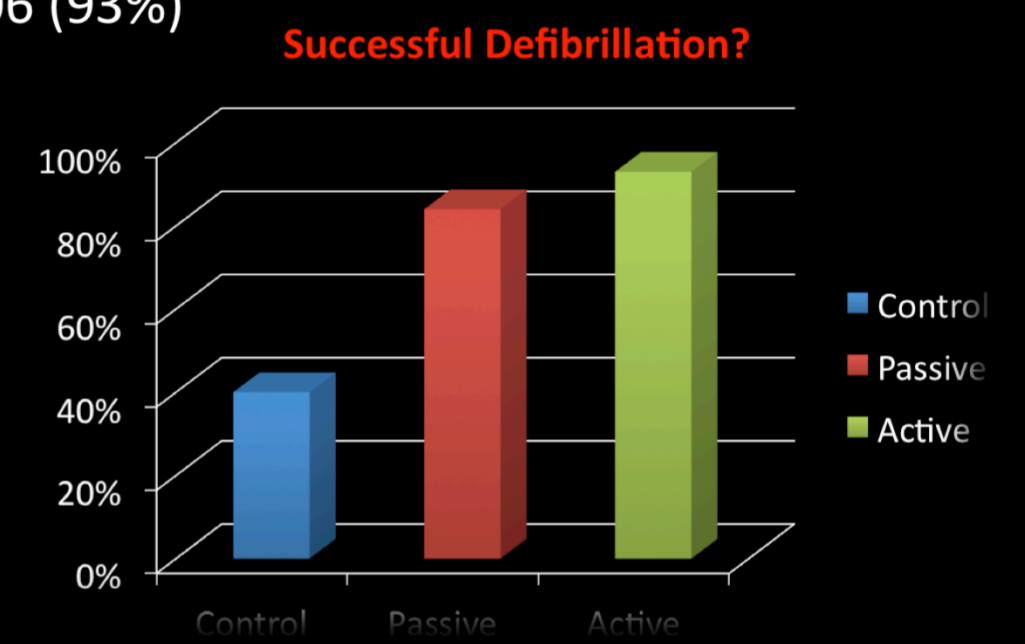


Active Training



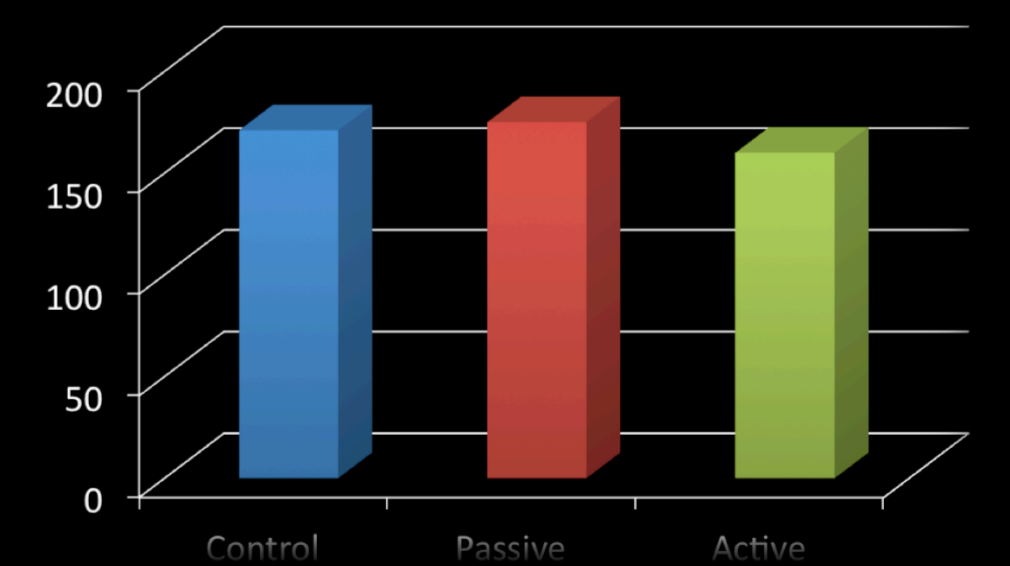
### Results – Did they defibrillate?

- Control – 42/105 (40%)
- Passive – 86/102 (84%)
- Active – 99/106 (93%)



### Did they defibrillate effectively?

- Mean (SD) time in seconds to defibrillation:
- Control – 171 (57) seconds
- Passive – 175 (40) seconds
- Active – 160 (42) seconds



## Intervention: Active training - KIDEFIB Study

- IMPS Public health programme
- School visit to John Radcliffe Hospital
- 3-hours, tour of ED
  - Safety, injury prevention
  - Basic Life Support (BLS)
  - Introduction to AED

### Cluster Randomised Controlled Trial

- Control
- Passive CPR (including AED use)
- Active CPR (including AED use)
- Study approved by the ethics committee

## Conclusions

- 11 year olds can safely defibrillate
  - Active training is best
  - Passive training is still pretty good
- Online e-petition

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