

MRC

Hubs for Trials
Methodology Research

North West Hub

Showcase Meeting

Professor Paula Williamson



Douglas Graham Altman,

FMedSci, CStat, CSci, DSc, BSc,

born 1948, died 3 June 2018

<https://www.youtube.com/watch?v=ZwDNPIldQO1Q&feature=youtu.be>

RESEARCH

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The trials methodological research agenda: results from a priority setting exercise

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Top 3 priorities

- (1) Methods to boost recruitment
- (2) Choosing appropriate outcomes to measure
- (3) Methods to minimise attrition

Results – round 2 and 3 (primary)

Topic	Round 2				Consensus?	Round 3				Consensus?	Rank
	Total	%1-3	%4-6	%7-9		Total	%1-3	%4-6	%7-9		
Methods to boost recruitment	32	0.0	43.8	56.3		24	0.0	16.7	83.3	in	1
Choosing appropriate outcomes to measure	32	3.1	28.1	68.8		24	0.0	29.2	70.8	In	2
Methods to minimise attrition	32	6.3	40.6	53.1		24	0.0	29.2	70.8	In	2
Methods to minimise bias in trials when blinding is not possible	32	0.0	40.6	59.4		24	0.0	33.3	66.7		3
Pragmatic trials	32	0.0	56.3	43.8		24	0.0	45.8	54.2		4
Design and analysis of pilot/feasibility trials	32	6.3	46.9	46.9		24	4.2	41.7	54.2		5
Calculating sample size	32	21.9	31.3	46.9		24	12.5	33.3	54.2		6
Methods for dealing with missing data	32	3.1	59.4	37.5		24	0.0	58.3	41.7		7
Phase II trials	32	15.6	50.0	34.4		24	16.7	50.0	33.3		8
Complex interventions	32	3.1	62.5	34.4		24	0.0	70.8	29.2		9
Consent in emergency settings	32	12.5	46.9	40.6		24	0.0	70.8	29.2		9
Methods for trial monitoring	32	9.4	65.6	25.0		24	8.3	62.5	29.2		10
Adjustment for non-adherence to treatment protocol	32	6.3	53.1	40.6		24	4.2	70.8	25.0		11
Stratified medicine design	32	6.3	56.3	37.5		24	8.3	66.7	25.0		12
Primary care trials	32	18.8	56.3	25.0		24	12.5	62.5	25.0		13
Interim analysis/DMC issues	32	9.4	65.6	25.0		24	0.0	79.2	20.8		14
Adaptive designs	32	0.0	62.5	37.5		24	4.2	75.0	20.8		15
Equivalence/non-inferiority trials	32	12.5	62.5	25.0		24	12.5	66.7	20.8		16
Dealing with clustering effects	32	6.3	65.6	28.1		24	4.2	79.2	16.7		17
Methods for economic analysis	32	12.5	65.6	21.9		24	8.3	75.0	16.7		18
Cluster trials	32	12.5	62.5	25.0		24	12.5	70.8	16.7		19
Evaluation of electronic data capture methods	32	28.1	50.0	21.9		24	20.8	62.5	16.7		20
e-trials	32	12.5	62.5	25.0		24	8.3	79.2	12.5		21
MAMS designs	32	12.5	75.0	12.5		24	12.5	75.0	12.5		22
Stepped wedge designs	32	15.6	65.6	18.8		24	16.7	75.0	8.3		23
Randomisation methods	32	34.4	53.1	12.5		24	33.3	58.3	8.3		24
Multiplicity	32	15.6	81.3	3.1		24	8.3	87.5	4.2		25
Radiotherapy study designs	32	59.4	34.4	6.3		24	75.0	20.8	4.2	out	26