

Randomized, Double-Blind, Sham-Controlled Trial of an Electrotrichogenesis Wearable Device in Men with Androgenetic Alopecia

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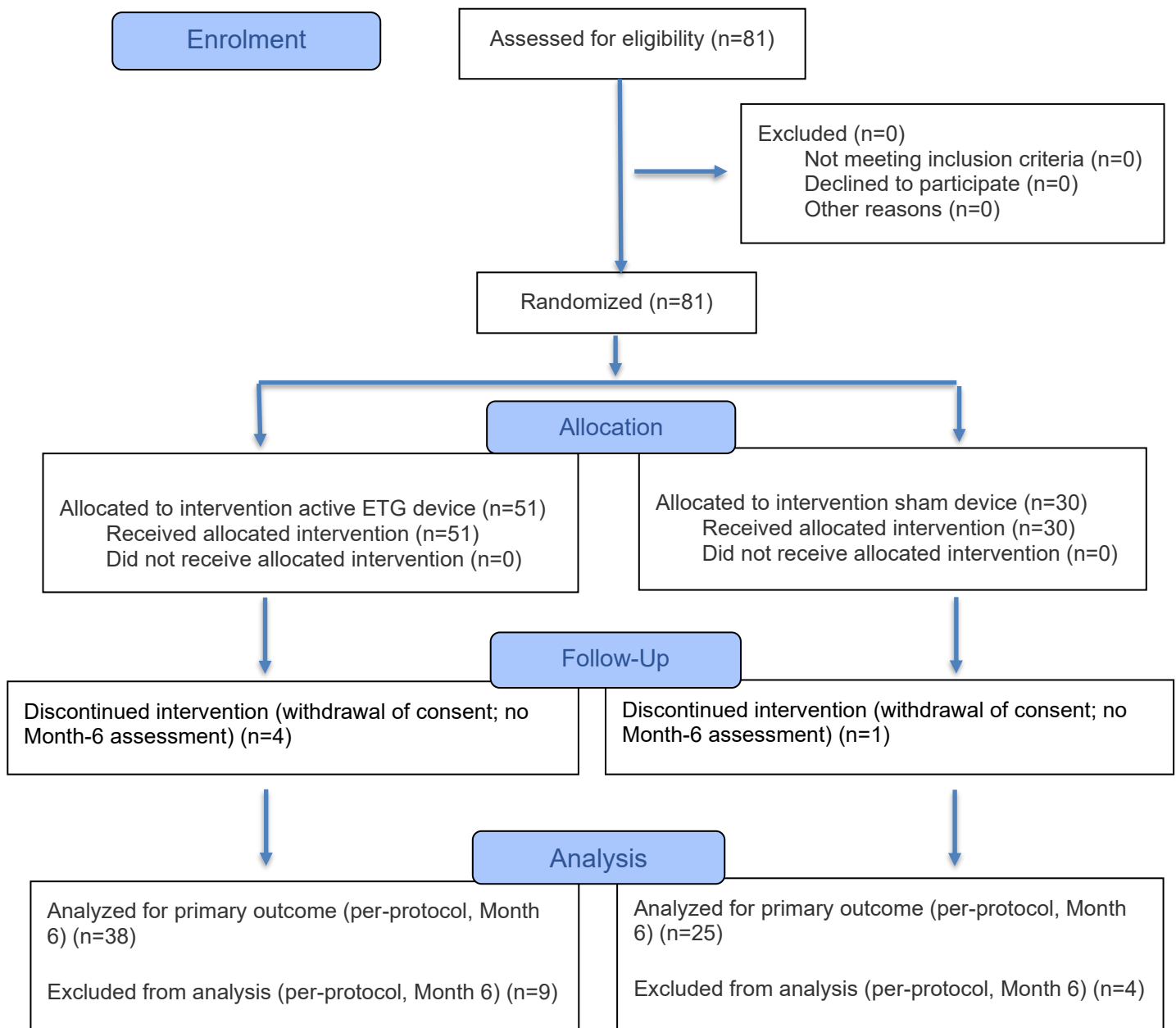
Running heading

Electrotrichogenesis Wearable for Male Androgenetic Alopecia: Sham-Controlled RCT

Supplementary Material

Figure S1. CONSORT 2025 Flow Diagram and Check List

Flow diagram of the progress through the phases of a randomized trial of two groups (that is, enrolment, intervention allocation, follow-up, and data analysis)



CONSORT 2025 Checklist

Section / Topic	No	CONSORT 2025 checklist item description	Reported on page no.
Title and abstract			
Title and structured abstract	1a	Identification as a randomized trial	1
	1b	Structured summary of the trial design, methods, results, and conclusions	2
Open science			
Trial registration	2	Name of trial registry, identifying number (with URL) and date of registration	2, 5, 15
Protocol and statistical analysis plan	3	Where the trial protocol and statistical analysis plan can be accessed	15
Data sharing	4	Where and how the individual de-identified participant data (including data dictionary), statistical code and any other materials can be accessed	15
Funding and conflicts of interest	5a	Sources of funding and other support (e.g., supply of drugs), and role of funders in the design, conduct, analysis and reporting of the trial	14
	5b	Financial and other conflicts of interest of the manuscript authors	14
Introduction			
Background and rationale	6	Scientific background and rationale	2-3
Objectives	7	Specific objectives related to benefits and harms	2, 4
Methods			
Patient and public involvement	8	Details of patient or public involvement in the design, conduct and reporting of the trial	4
Trial design	9	Description of trial design including type of trial (e.g., parallel group, crossover), allocation ratio, and framework (e.g., superiority, equivalence, non-inferiority, exploratory)	4
Changes to trial protocol	10	Important changes to the trial after it commenced including any outcomes or analyses that were not prespecified, with reason	4
Trial setting	11	Settings (e.g., community, hospital) and locations (e.g., countries, sites) where the trial was conducted	5

Eligibility criteria	12a	Eligibility criteria for participants	5
	12b	If applicable, eligibility criteria for sites and for individuals delivering the interventions (e.g., surgeons, physiotherapists)	5 (blinded CRO assessors); 4-6 (intervention self-administered)
Intervention and comparator	13	Intervention and comparator with sufficient details to allow replication. If relevant, where additional materials describing the intervention and comparator (e.g., intervention manual) can be accessed	5-6 (intervention/comparator); 6 (Fig. 1); 17-20 (figures)
Outcomes	14	Pre-specified primary and secondary outcomes, including the specific measurement variable (e.g., systolic blood pressure), analysis metric (e.g., change from baseline, final value, time to event), method of aggregation (e.g., median, proportion), and time point for each outcome	6
Harms	15	How harms were defined and assessed (e.g., systematically, non-systematically)	6 (harms definitions/collection); 9 (harms results)
Sample size	16a	How sample size was determined, including all assumptions supporting the sample size calculation	4-5
	16b	Explanation of any interim analyses and stopping guidelines	7
Randomization:			
Sequence generation	17a	Who generated the random allocation sequence and the method used	4 (computer-generated random numbers; allocation sequence generated by an independent sponsor software engineer)
	17b	Type of randomization and details of any restriction (e.g., stratification, blocking and block size)	4 (blocked allocation; 5:3 active ETG:sham; no stratification; block size not specified)
Allocation concealment mechanism	18	Mechanism used to implement the random allocation sequence (e.g., central computer/telephone; sequentially numbered, opaque, sealed containers), describing any steps to conceal the sequence until interventions were assigned	4 (devices pre-labeled with code A/B and dispensed sequentially per allocation schedule to ensure concealment; allocation key released only after database lock)
Implementation	19	Whether the personnel who enrolled and those who assigned participants to the interventions had access to the random allocation sequence	4 (Dermatest implemented sequential dispensing of pre-labeled A/B devices; enrolling/assigning personnel were blinded to treatment identity; allocation key retained by sponsor until database lock)

Blinding	20a	Who was blinded after assignment to interventions (e.g., participants, care providers, outcome assessors, data analysts)	4-5
	20b	If blinded, how blinding was achieved and description of the similarity of interventions	4
Statistical methods	21a	Statistical methods used to compare groups for primary and secondary outcomes, including harms	7 (primary/secondary methods); 9 (harms reporting)
	21b	Definition of who is included in each analysis (e.g., all randomized participants), and in which group	4, 7
	21c	How missing data were handled in the analysis	7
	21d	Methods for any additional analyses (e.g., subgroup and sensitivity analyses), distinguishing prespecified from post-hoc	7 (sensitivity analysis prespecified); 10 (reported)
Results			
Participant flow, including flow diagram	22a	For each group, the numbers of participants who were randomly assigned, received intended intervention, and were analyzed for the primary outcome	8; Online Resource 1
	22b	For each group, losses and exclusions after randomization, together with reasons	8; Online Resource 1
Recruitment	23a	Dates defining the periods of recruitment and follow-up for outcomes of benefits and harms	8
	23b	If relevant, why the trial ended or was stopped	Not applicable (trial completed as planned)
Intervention and comparator delivery	24a	Intervention and comparator as they were actually administered (e.g., where appropriate, who delivered the intervention/comparator, how participants adhered, whether they were delivered as intended [fidelity])	5 (administration); 8 (adherence/compliance)
	24b	Concomitant care received during the trial for each group	5
Baseline data	25	A table showing baseline demographic and clinical characteristics for each group	8 (Table 1)
Numbers analysed, outcomes and estimation	26	For each primary and secondary outcome, by group: - the number of participants included in the analysis - the number of participants with available data at the outcome time point - result for each group, and the estimated effect size and its precision (such as 95% confidence interval)	9–10 (Table 2); 12–14 (Results; Figs 2–4; ITT sensitivity analysis)

		for binary outcomes, presentation of both absolute and relative effect size	
Harms	27	All harms or unintended events in each group	9
Ancillary analyses	28	Any other analyses performed, including subgroup and sensitivity analyses, distinguishing pre-specified from post-hoc	10-11 (sensitivity/ancillary analyses)
Discussion			
Interpretation	29	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	12-13
Limitations	30	Trial limitations, addressing sources of potential bias, imprecision, generalisability, and, if relevant, multiplicity of analyses	13

*We strongly recommend reading this statement in conjunction with the CONSORT 2025 Explanation and Elaboration and/or the CONSORT 2025 Expanded Checklist for important clarifications on all the items. We also recommend reading relevant CONSORT extensions. See www.consort-spirit.org.

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