



Leaders in Lifesciences Employment Skilling & Training

Medical & Scientific Writing Training Program

Bespoke program structure and proposal for scientific and medical professionals

CPD-accredited | Continuing Professional Development



16 sessions
Idea to published paper



Hands-on writing
Practical exercises throughout



Assessed
Final writing assignment



CPD accredited
Continuing Professional Development

Turning research and laboratory insight into publications

In today's era of evidence-based medicine, medical and laboratory professionals play a pivotal role in advancing diagnostic science and clinical outcomes through high-quality research.

Yet many valuable insights and discoveries remain unpublished due to a lack of formal training in medical and scientific writing.

This program strengthens participants' ability to plan, structure and publish their research in reputable peer-reviewed journals, blending theory with practical writing exercises.

From research idea to accepted manuscript

Designed for



Pathologists



Microbiologists



Haematologists



Researchers in laboratory medicine



Other scientific and medical experts

Program objectives

1

Strong foundations

Principles of medical and scientific writing aligned with international publication standards

2

Research to publication

The complete journey: study design, data presentation, manuscript submission and peer review

3

Search & appraisal

Literature search, critical appraisal and ethical publication practices

4

Manuscript formats

Manuscript types, journal structures and referencing tools

5

High-impact papers

Clear, structured papers, reviews and meta-analyses relevant to the participants' field

6

Confidence with editors

Handling editorial feedback and revisions; managing plagiarism, authorship and conflicts of interest

Expected learning outcomes

After completing the program, participants will be able to:



Conceptualise and design research suitable for publication in scientific journals



Run efficient literature searches in PubMed, Medline and Google Scholar



Write every section of a manuscript (Introduction, Methods, Results, Discussion, Abstract, Title) with clarity and precision



Apply referencing standards (Vancouver and others) and use citation management software



Prepare and submit manuscripts following journal guidelines and ethical publication norms



Understand and apply key principles of systematic reviews and meta-analyses



Respond constructively to peer review and editorial feedback



Recognise and avoid ethical pitfalls: plagiarism, data manipulation, duplicate submission

Curriculum at a glance: 16 sessions in four stages



Stage 1

Foundations

- 1 Starting research & writing
- 2 Literature search
- 3–4 Basic statistics



Stage 2

Writing the manuscript

- 5 Structure & introduction
- 6 Methods
- 7 Results
- 8 Discussion
- 9 Title, abstract & the rest



Stage 3

Supporting skills

- 10 Referencing
- 11 Tables, graphs & figures
- 12 Reviews, systematic reviews & meta-analysis



Stage 4

Publishing & polish

- 13 Ethics & paper submission
- 14 Writing better
- 15 Data visualisation
- 16 Assessment

Stage 1: Foundations for publishable research

1

Starting your research and your writing

- Getting ideas
- Designing your research
- Ensuring validity
- Overcoming writer's block: short practice session

2

Literature search

- Databases: Medline, Google Scholar and others
- Search interfaces: pros and cons (PubMed, Google Scholar and others)
- Building a search
- Literature search for a systematic review
- Getting what you want

3–4

Basic statistics

- Standard deviation vs standard error: when to use which
- Calculating sample sizes
- Setting alpha; Type I and Type II errors
- p values and confidence intervals
- Parametric and non-parametric tests
- Correlation and beta coefficients
- Which test of significance should I use?
- Common statistical errors that lead to rejection

Stage 2: Writing the manuscript, section by section

5

Manuscript structure & introduction

- Types of papers
- Structure of a typical paper
- Purpose of the introduction
- How to write an introduction

6

Methods

- Purpose of the Methods section
- How to write the methods

7

Results

- Purpose of the results
- How to write the results

8

Discussion

- Purpose of the discussion
- How to write the discussion

9

The rest of the paper

- Title, abstract and keywords: purpose of an abstract; how to write an abstract and title; choosing keywords
- Cover letter, acknowledgements, conflicts and other components of a paper

Stage 3: Supporting skills for stronger papers

10 Referencing

- Referencing styles: Vancouver and others
- Referencing software: EndNote, Zotero

11 Tables, graphs and figures

- Conventions regarding style
- Designing and labelling tables
- Using Excel for graphs
- Using pivot tables in Excel

12 Reviews, systematic reviews & meta-analysis

- Introduction to writing a review
- Introduction to systematic reviews and meta-analysis
- RevMan software
- PRISMA
- QUADAS
- Protocols
- Components of data analysis

Stage 4: Ethics, submission and polish

13

Ethics and paper submission

- Copyright and plagiarism
- Publication and authorship
- Scientific misconduct: premature or duplicate publication, research misconduct
- Conflict of interest and disclosure
- What editors want
- Choosing a journal
- Managing revision requests; handling rejection
- Introduction to bibliometrics

14

Writing better

- Errors in grammar and syntax
- Making your writing better understood
- Flow, punctuation, organisation
- Abstracting

15

Data visualisation

- How to present your data
- Making your text and graphs presentable

16

Assessment

- Participants complete a writing assignment and are assessed on their writing

Learning approach and CPD accreditation



Theory with practice

Concepts paired with practical writing exercises in every stage



Hands-on tools

PubMed, Excel, EndNote / Zotero and RevMan used on real examples



Feedback-driven

Practice sessions, discussion and guidance on peer review responses



Assessed outcome

Final writing assignment assessed by faculty



PDCD1111
DUAL TRAINING &
CPD ACCREDITATION
2025-2027

Accredited for Continuing Professional Development. Participants receive a cliniminds CPD certificate on completion.

Why cliniminds



21+ years in life sciences training

Skilling and training healthcare and life-sciences professionals since 2004



ISO 9001:2015 certified academy

Quality-managed design and delivery of every program



Accredited training partner

LSSSDC and ACCRE accredited; dual training & CPD accreditation (PDCD1111, 2025–2027)



Industry practitioners as faculty

Sessions led by experts who practise what they teach, with real case studies



Bespoke by design

Content, examples and exercises tailored to your organisation and team

Next steps

- 1 Discuss participant profile and research focus areas
- 2 Tailor examples, exercises and schedule to your team
- 3 Finalise dates and delivery format
- 4 Sign the Statement of Work and begin



Let's talk

www.cliniminds.com

info@cliniminds.com

Noida, India