

Area of contribution	Name of contributors
Concept	
Design	
Supervision	
Resources	
Material	
Data collection/processing	
Analysis/interpretation	
Literature search	
Writing	
Critical review	
Other	

Definitions

Concept	Conception of the research idea, formulating the hypothesis,
	developing the research question.
Design	Planning of the methods, measurements and analyses required
	to produce results.
Supervision	Oversight and responsibility for the organization and course of
	the project and/or the manuscript. Training and supervision in
	skills vital to the project.
Resources	Financing, personnel, equipment and space vital to the project.
Material	Providing subjects, patients, or stimulus material.
Data collection/processing	Responsibility for executing experiments, scheduling subjects
	or patients, organizing and documenting.
Analysis/interpretation	Responsibility for conceiving, developing and/or executing data
	analysis.
Literature search	Responsibility for literature overview/background.
Writing	Responsibility for creating all or a substantive part of the
	manuscript.
Critical review	Reworking the manuscript with intellectual content before
	submission, not just spelling and grammar checking.
Other	Other novel contributions necessary for completion of the
	project.