Neuro Oncol. 2025 May 3:noaf118. doi: 10.1093/neuonc/noaf118. Online ahead of print.

Response Assessment in Neuro-Oncology (RANO) 2009-2025: Broad Scope and Implementation - A Progress Report

Martin J van den Bent ¹, Michael A Vogelbaum ², Tim Cloughesy ³, Norbert Galldiks ⁴ ⁵ ⁶, Nathalie L Albert ⁷, Joerg-Christian Tonn ⁸ ⁹, Edward Avila ¹⁰, Jason Fangusaro ¹¹, David Mirsky ¹², Arjun Sahgal ¹³, Ricardo Soffietti ¹⁴, Philipp Karschnia ⁸ ⁹ ¹⁵, Minesh Mehta ¹⁶, Michelle M Kim ¹⁷, Florien Boele ¹⁸ ¹⁹, Jason T Huse ²⁰, Lakshmi Nayak ²¹, Mary Jane Lim-Fat ²², Emilie le Rhun ²³, Annick Desjardins ²⁴, Eudocia Q Lee ²¹, Ugonma Chukwueke ²¹, Johan A F Koekkoek ²⁵, Tito Mendoza ²⁶, Ashlee R Loughan ²⁷, Joshua A Budhu ¹⁰, Spyridon Bakas ²⁸ ²⁹, Raymond Y Huang ³⁰, Javier E Villanueva-Meyer ³¹ ³², Jose Pablo Leone ³³, Hideho Okada ³² ³⁴, David A Reardon ²¹, Wenya L Bi ³⁵, Patrick Y Wen ²¹, Susan M Chang ³⁶

Affiliations

PMID: 40317212 DOI: 10.1093/neuonc/noaf118

Abstract

Since its first activities in 2008 and 2009, the Response Assessment in NeuroOncology (RANO) group has given guidance on response assessment, trial design and trial procedures in order to improve and standardize the way clinical trials in neurooncological studies are performed. To achieve its objectives, a variety of working groups have been initiated that cover many aspects of clinical trial design and outcome assessment in patients with tumors affecting the Central Nervous System. The RANO working groups are built on expertise without a formal structure, which makes rapid responses to new developments possible. RANO is aiming at evidence based guidelines and recommendations, but in the absence of evidence will provide consensus based guidance achieved by inviting recognized international experts. In its 15 year of existence, more than 60 RANO papers have been published mostly in high ranking journals, and its recommendations have been accepted by regulators and industry as guiding principes. RANO organizes two meetings per year, one in conjunction with the annual American Society for Clinical Oncology (ASCO) meeting, and one during the annual Society for Neuro-Oncology meeting. These meetings are open, as are the working groups of RANO. New initiatives are welcomed.

Keywords: Brain Metastases; Outcome criteria; Primary brain tumors; RANO.

© The Author(s) 2025. Published by Oxford University Press on behalf of the Society for Neuro-Oncology. All rights reserved. For commercial re-use, please contact reprints@oup.com for reprints and translation rights for reprints. All other permissions can be obtained through our RightsLink service via the Permissions link on the article page on our site—for further information please contact journals.permissions@oup.com.

PubMed Disclaimer

1 di 1 22/05/2025, 10:18