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Titolo	100 metrics to assess and communicate the value of biomedical research : an ideas book / / Susan Guthrie, Joachim Krapels, Catherine Lichten and Steven Wooding ; prepared in collaboration with the Association of American Medical Colleges
Pubbl/distr/stampa	Santa Monica, CA : , : RAND Corporation, , 2016
Descrizione fisica	1 online resource (xx, 100 pages) : color illustrations
Soggetti	Biomedical Research - statistics & numerical data Program Evaluation Cost-Benefit Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"RAND Europe." "RR-1606-AAMC."
Nota di contenuto	Introduction -- Research impacts. Number of journal articles published -- Number of citations -- Number of research output downloads -- Mentions in social media -- Number and size of grant awards -- Number and size of awards from major funders -- Number of different research funders supporting research -- Success rate of grant applications -- Catalog of infrastructure -- Use of infrastructure by other researchers -- Measures of prestige. Number of editorships of high-profile journals -- Number of staff on relevant boards and committees -- Number of academy members -- Number and type of prizes -- Number of speaker invitations/conference invitations -- Number of media mentions -- Number of applications per open post -- Percentage of out-of-state and international applications per research job/PhD post -- Track record of new hires -- Undergraduate applications -- Grade point average of incoming students -- Teaching and career development impacts. Grade point average of graduates -- Longitudinal data on career progression of students -- Number of PhD graduates -- Metrics to Assess and Communicate the Value of Biomedical Research -- Completion rate of PhD graduates -- Number

of publications per PhD -- 5/10/15-year career outcomes for PhD students -- K -> R award conversion rate -- Career outcomes for researchers -- Subject coverage of the professional development program -- Uptake of the professional development program -- Feedback on the professional development program -- Improved educational attainment/reduced drop-out rate -- Research and institutional processes. Start-up time for research projects -- Start-up time for clinical trials -- Time from funding to publications -- Proportion of funds spent on administration -- Support staff to researcher ratio -- Prompt payment of community partners -- How hiring decisions are made -- How decisions are made to apply for grants -- How publication decisions are made -- Proportion of publications that are open access -- Proportion of trials where protocol and findings are published -- Description of institution's policy on health equity in research -- Proportion of projects that consider health equity in their design and conduct -- Networks and dissemination. Number of collaborations on grant applications -- Level of co-authorship -- Bibliometric networks -- Total number of different collaborators across all projects -- Description of range of collaborations -- Number of research projects engaging community partners -- Number of research projects engaging community partners for the entire duration of the project -- Number of articles co-authored with community partner -- Existence of specifically tailored material for different community groups -- Size of communications office -- Number of staff engaged in outreach -- Number of people attending outreach events and their perceptions -- Level of participation in clinical trials -- Number of projects with an industry partner -- Industrial research funding for PhD fellowship positions in industry and PhD scholarships -- Number of appointments to policy groups -- Policy impacts. Number of invitations from policymakers -- Number of citations in clinical guidelines -- Number of citations in policy documents -- Health impacts. Improved health of patients -- Improved quality-of-care metrics -- Number of lives touched -- Narrowing of health/health care disparities -- Improved awareness of preventive measures in the community -- Number of treatments developed in-house -- Number of new treatments available (adopted from elsewhere) -- Percentage, number, and range of types of clinicians on research projects -- Number of uses of research infrastructure in clinical practice -- Economic impacts and commercialization. Level of local spending -- Amount of direct employment -- Number and type of new offices (including subsidiaries) in the area -- Size of technology transfer office -- Existence of intellectual property policy -- Number of patent applications -- Number of patents awarded -- Number of patent citations -- Number of licensing agreements and licensing revenue -- List/examples of know-how taken up by industry -- Number of private-sector innovations/products/devices brought to market -- Number of spin-outs -- Venture capital invested in start-ups -- Number and size of consultancy agreements -- Contract funding from industry -- Number of and list of new treatments -- Fraction of indirect costs covered -- Cost-benefit calculations -- Broader metrics. Perceptions of equity, quality, and access -- Perceptions of staff -- Perception of community partners -- Perceptions of external experts -- Perceptions of people participating in research -- Attitudes of research participants toward research -- Narratives of success -- Narratives of performance.

Sommario/riassunto

"Biomedical research affects society in many ways. It has been shown to improve health, create jobs, add to our knowledge, and foster new collaborations. Despite the complexity of modern research, many of the

metrics used to evaluate the impacts of research still focus on the traditional, often academic, part of the research pathway, covering areas such as the amount of grant funding received and the number of peer-reviewed publications. In response to increasing expectations of accountability and transparency, the Association of American Medical Colleges (AAMC), in collaboration with RAND Europe, undertook a project to help communicate the wider value of biomedical research. The initiative developed resources to support academic medical centers in evaluating the outcomes and impacts of their research using approaches relevant to various stakeholders, including patients, providers, administrators, and legislators. This report presents 100 ideas for metrics that can be used assess and communicate the value of biomedical research. The list is not comprehensive, and the metrics are not fully developed, but they should serve to stimulate and broaden thinking about how academic medical centers can communicate the value of their research to a broad range of stakeholders."--Publisher's description.