



Giovanni de Girolamo **IRCCS Fatebenefratelli, Brescia**

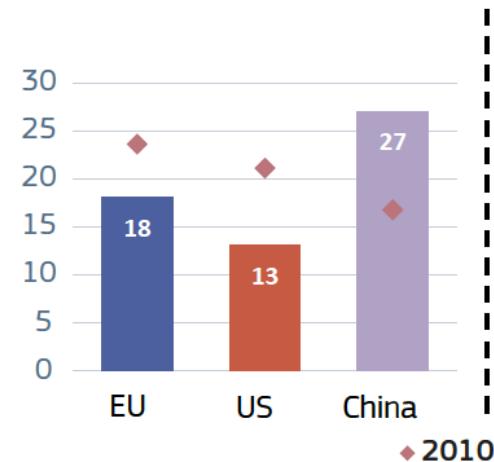
INTEGRARE PER INNOVARE: PONTI E BARRIERE TRA CLINICA E RICERCA



Figure 1-2 Scientific performance, excellence and collaboration – EU, US and China, 2022

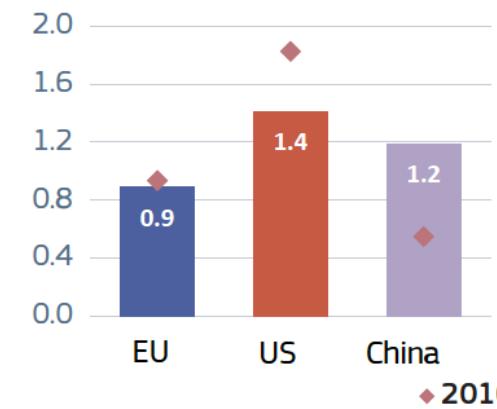
Scientific performance

World share total (%)



Scientific excellence

Percentage of publications that belong to the top 1% of most-cited publications worldwide⁽¹⁾



Scientific collaboration

International co-publication rates (%)

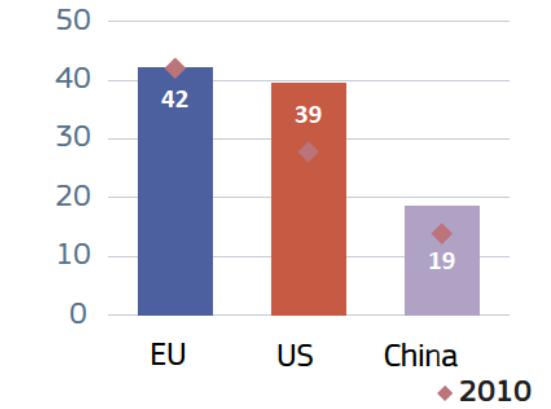


Figure 2.1-1 R&D expenditure in billion EUR, 2000-2021

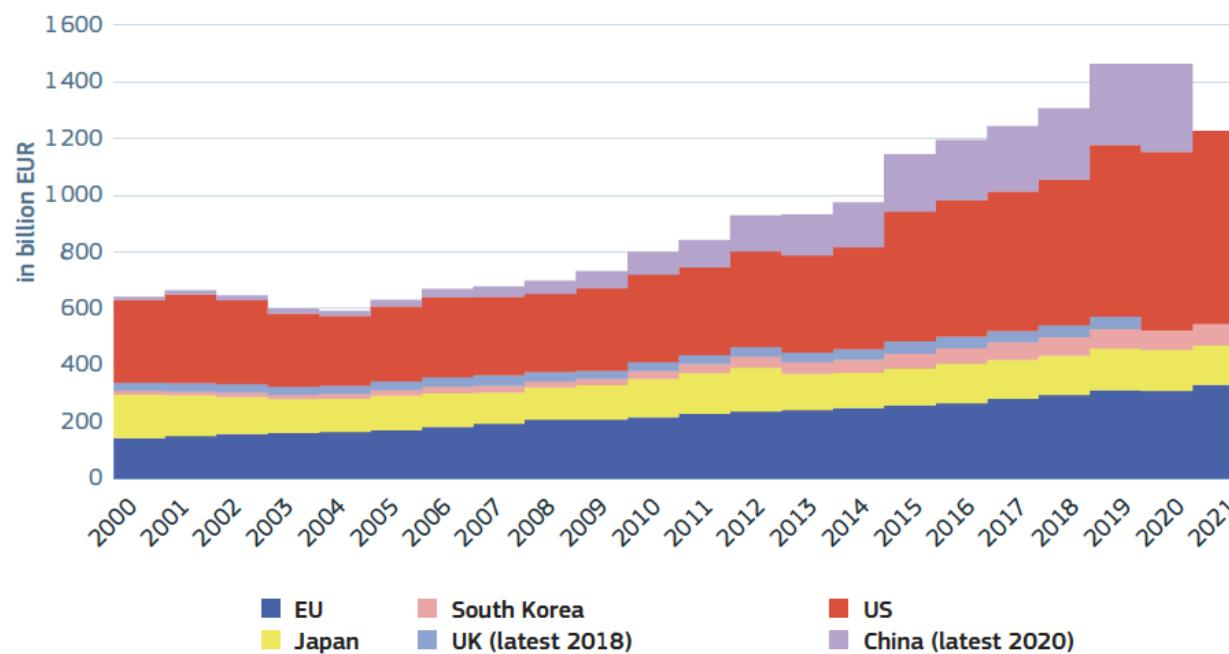


Figure 2.1-2 Gross expenditure on R&D as a percentage of GDP (R&D intensity), 2015-2022

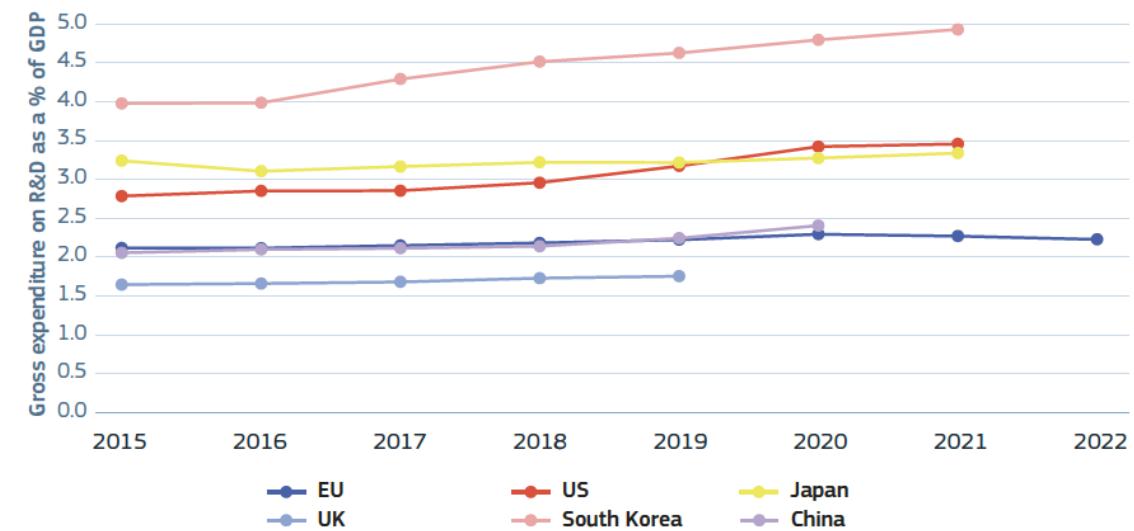
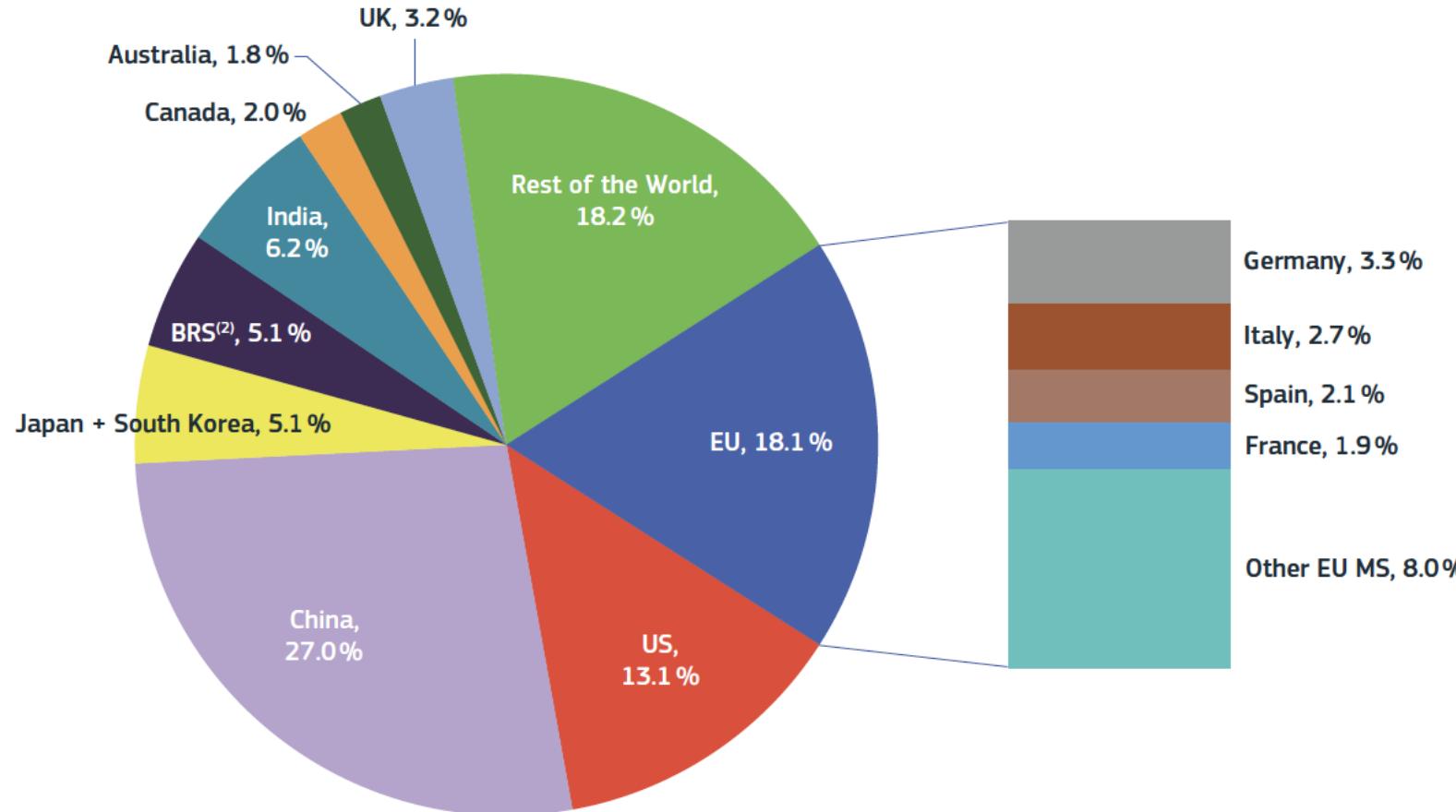


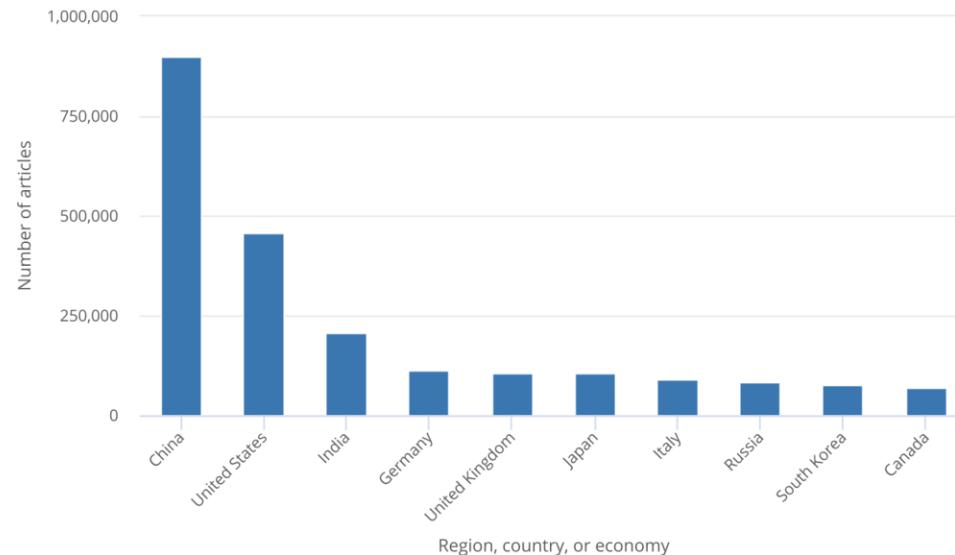
Figure 3.1-1 Global share of scientific publications⁽¹⁾, 2022



National Center for Science and Engineering Statistics | NSB-2023-33

Figure PBS-2

S&E publications for 10 leading regions, countries, or economies: 2022



Note(s):

Article counts refer to publications from a selection of conference proceedings and peer-reviewed journals in S&E fields from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a fractional count basis (i.e., for articles produced by authors from different regions, countries, or economies, each region, country, or economy receives fractional credit on the basis of the proportion of its participating authors). Data by all countries, regions, and economies are available in Table SPBS-2.

Source(s):

National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed April 2023.

Science and Engineering Indicators

Efficacy and Tolerability of Seven Antipsychotic Drugs in Acutely Ill Patients With Schizophrenia: A Randomized, Multicenter, Assessor-Blinded Trial

Guorui Zhao, B.Med.,¹ Yaoyao Sun, Ph.D.,¹ Yuyanan Zhang, Ph.D.,¹ Tianlan Lu, B.S.,¹ Zhe Lu, M.D.,¹ Zhewei Kang, M.D.,¹ Johannes Schneider-Thoma, M.D.,² Wuxiang Xie Ph.D.,³ Yang Yang, Ph.D.,⁴ Jing Guo, M.Ed.,¹ Yunqing Zhu, M.Sc.,¹ Rui Yuan, B.Med.,¹ Junyuan Sun, M.Med.,¹ Xiaoyang Feng, M.D.,¹ Yundan Liao, M.D.,⁵ Dongxue Chen, M.S.Sc.,¹ Lingjiang Li, M.D.,⁴ Tao Li, M.D.,^{5,6} Fude Yang, M.D.,⁷ Chuanyue Wang, M.D.,⁸ Dai Zhang, M.D.,¹ Hao Yan, M.D.,¹ Stefan Leucht, M.D.,^{1,8,9} Weihua Yue, M.D.,^{1,10,11}; for the Schizophrenia in Non-Occidental Participants (SINO) Investigators

Objective: Antipsychotic drugs are the mainstay of schizophrenia treatment; yet, controversy persists regarding their relative efficacy and side effects, and guideline recommendations on efficacy differences are particularly vague. The aim of this trial was to compare seven antipsychotics in acutely ill patients with schizophrenia.

Methods: The authors performed a multicenter (32 hospitals), industry-independent, parallel, assessor-blinded, flexible-dosage randomized trial (Schizophrenia in Non-Occidental Participants). Eligible inpatients 18–45 years of age with schizophrenia experiencing acute exacerbation were recruited and randomized to 6 weeks of monotherapy with one of seven antipsychotic drugs: olanzapine, risperidone, quetiapine, aripiprazole, ziprasidone, perphenazine, and haloperidol.

Results: A total of 3,067 patients were randomized, of whom 82% completed follow-up. The mixed model indicated significant differences in the primary outcome percentage change in Positive and Negative Syndrome Scale (PANSS) score between the antipsychotics. At week

6, olanzapine and risperidone showed a significantly higher percentage change in PANSS score than aripiprazole, ziprasidone, and quetiapine (mean differences: 5.52–7.93) but not haloperidol or perphenazine. Olanzapine was associated with the highest risk of weight gain (relative risk: 1.44–3.22). Aripiprazole was associated with lower risk of hyperprolactinemia than all the other drugs (relative risks: 0.11–0.21). Ziprasidone and aripiprazole were associated with lower risks of weight gain and metabolic side effects. Haloperidol was associated with a higher risk of extrapyramidal symptoms than all other drugs (relative risks: 0.13–0.61). Aripiprazole was least sedating (relative risks: 0.30–0.39). Olanzapine and risperidone showed lower all-cause discontinuation rates than ziprasidone and haloperidol (hazard ratios: 0.61–0.73).

Conclusions: This trial fills important knowledge gaps in acute antipsychotic treatment of schizophrenia. It confirms hierarchies in efficacy and side effects of antipsychotics from related evidence.

Am J Psychiatry 2025; XX:1–12; doi: 10.1176/appi.ajp.20250111

Biological
Psychiatry

Archival Report

Intimate Partner Violence During Pregnancy and Early Offspring Development: A Prospective Birth Cohort Study

Nan Jiang, Shuang-Shuang Ma, Ping Zu, Lei Zhang, Min Xu, Jing-Feng Bian, Ji-Rong Xu, Wei Luo, Hai-Xia Wang, Dao-Min Zhu, and Peng Zhu

ABSTRACT

BACKGROUND: Intimate partner violence (IPV) during pregnancy is linked to several unfavorable outcomes for both mothers and babies. However, few studies have examined its connections to early infant neurodevelopment, and the underlying processes of these connections remain unclear.

METHODS: Our research was conducted within a prospective birth cohort of 3007 mother-child pairs from March 2018 to July 2023. Participants were followed from pregnancy until the offspring were 12 months old. We collected data on IPV during pregnancy, prenatal depression, postpartum depression, umbilical cord blood inflammatory level, and the Ages and Stages Questionnaire, Third Edition (ASQ-3) and used multiple logistic regression analysis to examine the relationship between IPV during pregnancy and children's neurodevelopmental delay.

RESULTS: In our study cohort, 9.8% of pregnant women experienced IPV during pregnancy, and 8.7% experienced psychological violence. Psychological violence was associated with increased relative risks of failure in communication, problem-solving, and personal-social domains of the ASQ-3. The corresponding 95% CIs were 1.95 (1.24–3.07), 2.10 (1.25–3.52), and 1.97 (1.29–3.02), respectively. Moreover, IPV during pregnancy combined with depression further exacerbated these risks. In addition, 19.6% of the association between IPV during pregnancy and prenatal depression was mediated by cord blood inflammatory indices in relation to the ASQ-3 failure risk.

CONCLUSIONS: This prospective birth cohort study indicates that the significant negative impact of psychological violence on the offspring's neurodevelopmental delay depends on the intensity of psychological stress, with umbilical cord blood inflammation being a potential underlying biological mechanism.

<https://doi.org/10.1016/j.biopsych.2025.03.020>

Figure 3.1-5 EU share of publications⁽¹⁾ by scientific field, 2012 and 2022

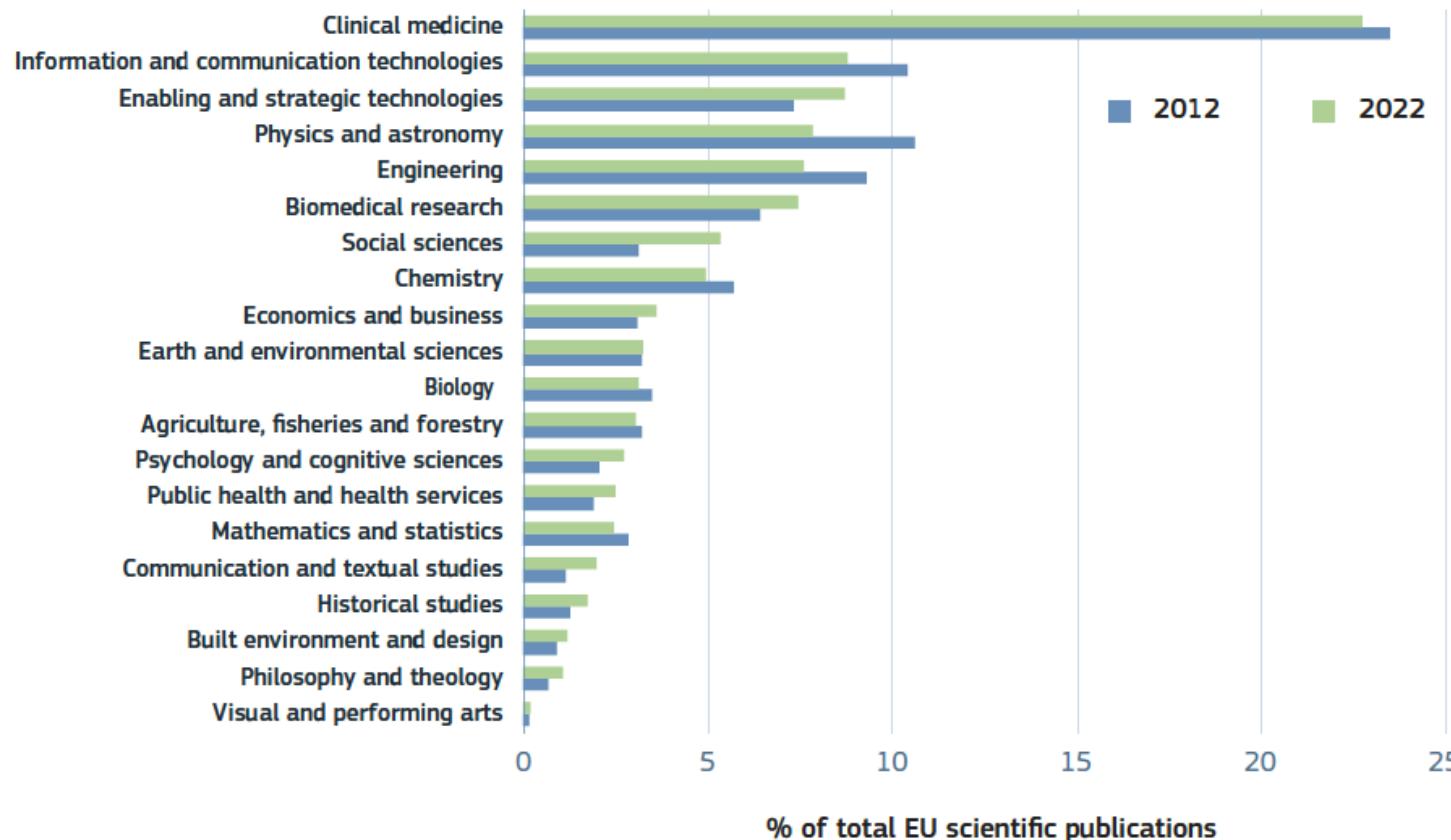


Figure 3.1-6 US share of publications⁽¹⁾ by scientific field, 2012 and 2022

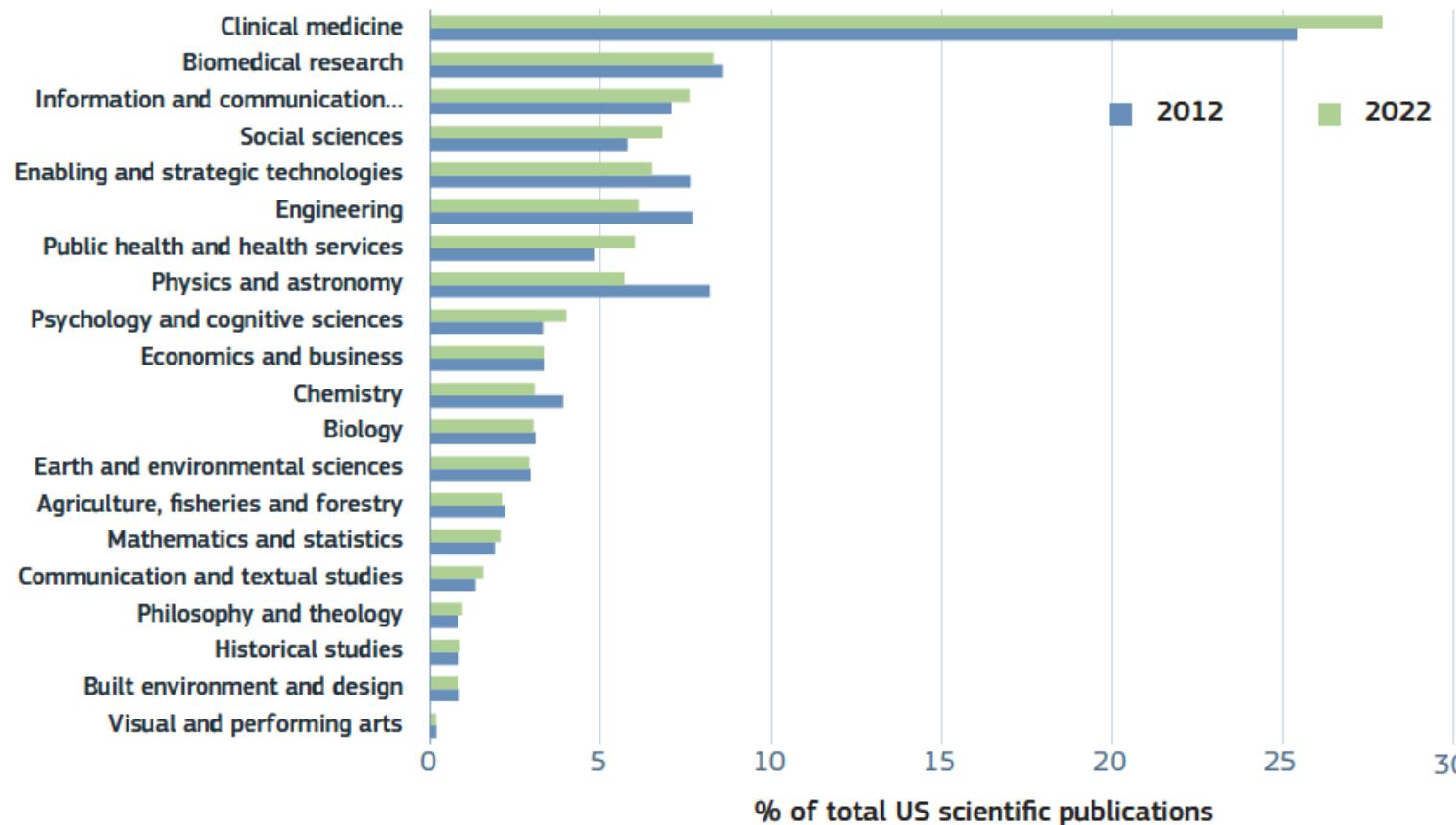


Figure 3.1-9 Publications per million population, 2012 and 2022



Feature



ARE GROUNDBREAKING SCIENCE DISCOVERIES BECOMING HARDER TO FIND?

Researchers are arguing over whether 'disruptive' or 'novel' science is waning – and how to remedy the problem. By David Matthews

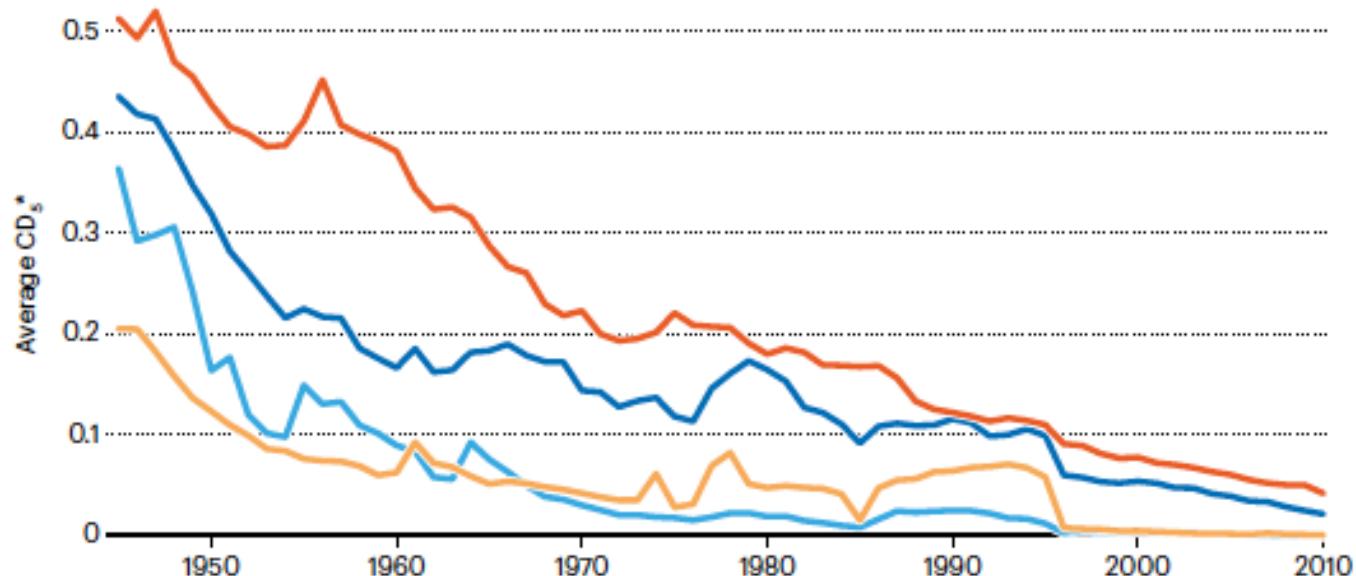
Russell Funk had no idea how much his work would strike a nerve. But then came a blizzard of news stories and supportive e-mails from hundreds of scientists – along with a critical backlash. Funk and his co-authors argued that scientific papers and patents had become less disruptive over time, by which they mean that fresh work was less likely to make previous articles obsolete. When they published their paper 2 years ago¹, it drew the attention of more than 250 news outlets. This year, the finding even made its way into a US Congressional hearing.

836 | Nature | Vol 641 | 22 May 2025

DISRUPTIVE SCIENCE DWINDLES

To quantify how much a paper shakes up a field, researchers used a metric called a CD Index, which ranges from 1 for the most disruptive papers to -1 for the least disruptive. Analysis of millions of papers shows that disruptiveness has fallen over time in all analysed fields.

— Social sciences — Technology — Physical sciences — Life sciences and biomedicine



*Average CD₅ is the CD index five years after a paper's publication.

REVIEW



The answer is 17 years, what is the question: understanding time lags in translational research

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DECLARATIONS

Competing interests

None declared

Funding

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Programme in the Department of Health. The views expressed are not

Summary

This study aimed to review the literature describing and quantifying time lags in the health research translation process. Papers were included in the review if they quantified time lags in the development of health interventions. The study identified 23 papers. Few were comparable as different studies use different measures, of different things, at different time points. We concluded that the current state of knowledge of time lags is of limited use to those responsible for R&D and knowledge transfer who face difficulties in knowing what they should or can do to reduce time lags. This effectively 'blindfolds' investment decisions and risks wasting effort. The study concludes that understanding lags first requires agreeing models, definitions and measures, which can be applied in practice. A second task would be to develop a process by which to gather these data.



Journal of Clinical Epidemiology 150 (2022) 106–115

**Journal of
Clinical
Epidemiology**

ORIGINAL ARTICLE

2,109 randomized oncology trials map continuous, meager improvements in progression-free and overall survival over 50 years

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Abstract

Objectives: To assess the patterns and time trends in overall survival and progression-free survival treatment effects across randomized controlled trials (RCTs) in oncology.

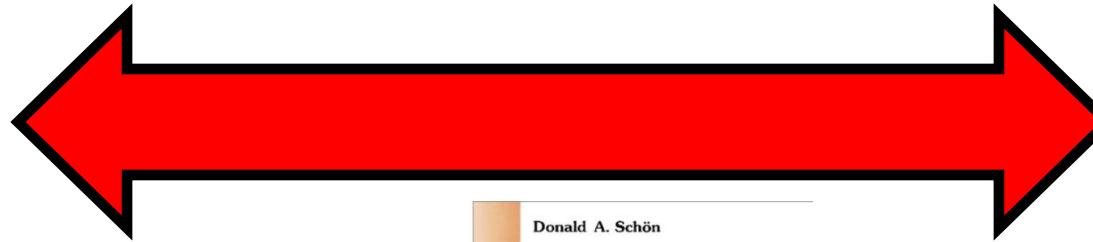
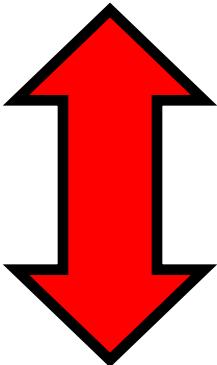
Study Design and Setting: A PubMed search for oncology network meta-analyses (NMAs) was carried (to September 30, 2021). Relevant hazard ratios were extracted for systemic treatments from RCTs in the NMAs. After removing duplicate results, relationships between treatment effects, year of publication, trial design, and other features were explored.

Results: From 241 oncology NMAs, 2,109 unique eligible RCTs provided analyzable data. On average, there was a 12%–14% reduction in hazard for overall survival and 27%–30% reduction for progression-free survival, with substantial heterogeneity across different malignancies. Correlation between overall survival and progression-free survival treatment effects was modest ($r = 0.60$, 95% confidence interval, 0.56–0.64). Over time, there was a suggestive trend of increased progression-free survival treatment effect, although overall survival treatment effects remained steady. Only one in five trials met criteria for clinically meaningful improvements in overall survival. Among 300 randomly selected trials, mean absolute improvement was 1.6 months for median progression-free survival and 1.4 months for median overall survival.

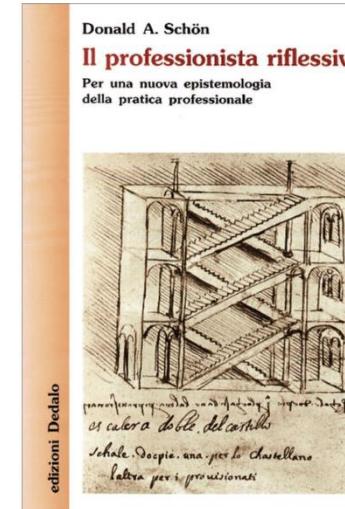
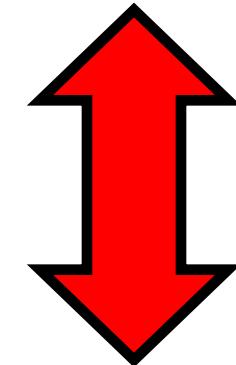
Conclusion: Broad patterns across the past 50 years of oncology research suggest continuous progress has been made, but few results meet clinically meaningful thresholds for overall survival improvement. © 2022 Elsevier Inc. All rights reserved.

Keywords: Umbrella review; Overall survival; Progression free survival; Clinical trial design; Randomized trial; Oncology; Cancer; Network meta-analysis; Meta-Research

Fare



Saper fare



Far sapere



Sapere

OSTACOLI ACQUISIZIONE CONOSCENZE – APPLICAZIONE NELLA PRATICA

25-28 NOVEMBRE 2025
AREZZO FIERE E CONGRESSI

20
Years
2006-2025

- **1. Gap tra evidenze ottenute in RCT e pratica clinica di routine**
- **2. Linee guida non aggiornate/applicabili**
- **3. Formazione insufficiente dei clinici**
- **4. Resistenze al cambiamento**
- **5. Barriere organizzative e di risorse**
- **6. Mancanza di strumenti operativi**
- **7. Scarso supporto istituzionale**
- **8. Interoperabilità limitata dei sistemi**
- **9. Scarsa cultura di valutazione sistematica degli esiti**
- **10. Barriere economiche e di rimborso**

SITUAZIONI DI DISCONNESSIONE RICERCA-PRATICA CLINICA

- Non vengono applicati interventi efficaci in situazioni che richiedono un intervento**
- Vengono applicati interventi efficaci ma in situazioni che NON richiedono un intervento**
- Vengono applicati interventi efficaci ma in modo scorretto**
- Vengono applicati interventi efficaci ma in ritardo**
- Linee-guida relative a nuovi interventi non sono adattabili ai contesti locali**

QUANTI SONO GLI INTERVENTI NON-FARMACOLOGICI (PSICOSOCIALI) DI DIMOSTRATA EFFICACIA PER I PRINCIPALI DISTURBI MENTALI?

■ 1. Disturbi depressivi	~6 interventi efficaci
■ 2. Disturbi d'ansia	~6-7 interventi
■ 3. Disturbi psicotici	~5 interventi
■ 4. Disturbo bipolare	~4 interventi
■ 5. Disturbi da uso di sostanze	~4-5 interventi
■ 6. Disturbi di personalità	~3-4 interventi
■ 7. Disturbi alimentari	~3 interventi

ARTICLE OPEN

A game changer for bipolar disorder diagnosis using RNA editing-based biomarkers

Nicolas Salvat^a, Francisco Jesus Checa-Robles^a, Vipul Patel^a, Christopher Cayzac^a, Benjamin Dubuc^a, Fabrice Chimienti^a, Jean-Daniel Abraham^a, Plemick Dupré^a, Diana Vetter^a, Sandie Mereuze^a, Jean-Philippe Lang^{a,b}, David J. Kupfer^a, Philippe Courte^a, and Dinah Weissmann^a[✉]

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In clinical practice, differentiating Bipolar Disorder (BD) from unipolar depression is a challenge due to the depressive symptoms, which are the core presentations of both disorders. This misdiagnosis during depressive episodes results in a delay in proper treatment and a poor management of their condition. In a first step, using A-to-T RNA editing analysis, we discovered 546 variants (366 genes) differentially edited between depressed patients and healthy volunteers in a discovery cohort of 57 participants. After using stringent criteria and biological pathway analysis, candidate biomarkers from 8 genes were singled out and tested in a validation cohort of 410 participants. Combining the selected biomarkers with a machine learning approach achieved to discriminate depressed patients ($n = 267$) versus controls ($n = 143$) with an AUC of 0.930 (CI 95% [0.879–0.982]), a sensitivity of 84.0% and a specificity of 87.1%. In a second step by selecting among the depressed patients those with unipolar depression ($n = 160$) or BD ($n = 95$), we identified a combination of 6 biomarkers which allowed a differential diagnosis of bipolar disorder with an AUC of 0.935 and high specificity ($Sp = 84.6\%$) and sensitivity ($Se = 90.9\%$). The association of RNA editing variants modifications with depression subtypes and the use of artificial intelligence allowed developing a new tool to identify, among depressed patients, those suffering from BD. This test will help to reduce the misdiagnosis delay of bipolar patients, leading to an earlier implementation of a proper treatment.

Translational Psychiatry (2022) 12:182; <https://doi.org/10.1038/s41398-022-01938-6>



Euthymic and depressed bipolar patients are characterized by different RNA editing patterns in blood

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ARTICLE INFO

ABSTRACT

Bipolar disorder (BD) is a worldwide leading cause of disability. Inflammation roles in this disease is well established. A-to-T mediated RNA editing is one of the key mechanisms regulating the inflammatory response. We have identified a panel of RNA editing based blood biomarkers which allowed to discriminate BD from BD depression with high accuracy. We confirmed here the diagnostic value of this panel in a new cohort of BD patients recruited in Brazil. We also identified new combinations which allow a clear discrimination of BD from healthy controls and among BD subgroups, confirming that RNA editing is a key mechanism in BD.

Keywords:
Bipolar disorder
RNA editing
Blood biomarker

Bipolar disorder (BD) is a leading cause of disability worldwide, as it can lead to cognitive and functional impairment and premature mortality. The first episode of BD is usually a depressive episode and in often misdiagnosed as major depressive disorder (MDD). Growing evidence indicates that peripheral immune activation and inflammation are involved in the pathophysiology of BD and MDD. Recently, by developing a panel of RNA editing-based blood biomarkers able to discriminate MDD from depressive BD, we have provided clinicians a new tool to reduce the misdiagnosis delay in patients suffering from BD. The present study aims at validating the diagnostic value of this panel in a new cohort of BD patients recruited in Brazil. The RNA-editing based blood biomarker (RMED) algorithm developed allowed to accurately discriminate MDD from depressive BD in an external cohort, with high accuracy, sensitivity and specificity values (82.5 %, 96.4 % and 90.4 %, respectively). These findings further confirm the important role of RNA editing in the physiopathology of mental disorders and emphasize the possible clinical usefulness of the biomarker panel for optimization treatment delay in patients suffering from BD.

1° biomarker in psichiatria per la diagnosi differenziale della depressione unipolare vs la depressione bipolare: EDIT-B.

RESEARCH

RNA editing-based biomarker blood test for the diagnosis of bipolar disorder: protocol of the EDIT-B study

Andrea Miranda-Mendizábal^{1,2*}, Diana Vetter^{3*}, Juan Zambrano⁴, Jeff Zarp⁵, Victor Chavarria^{1,6}, Anna Giménez-Palomo^{2,8,9,10}, Mirentxu González-Campos^{2,8,10}, Marc Valentí^{9,10}, Lara Walcer Baldinazzo¹¹, Sara Sídu^{12,14}, Maurizio Ferrari¹², Dinah Weissmann¹³, Chantal Henry¹³, Josep Maria Haro^{12,14,15}, Lars Vedel Kessing¹⁶ and Eduard Vieta^{1,10,12}

Abstract

Introduction: Misdiagnosis of bipolar disorder (BD) can lead to ineffective treatment, increased risk of mania episodes, and increased risk of suicide. The lack of precise tools to diagnose BD and distinguish it from major depressive disorder (MDD) in depressed patients are lacking.

Aim: To assess the external diagnostic validity of a blood-based test using an RNA epigenetic signature for the differential diagnosis of BD versus MDD in patients with depressive episodes.

Methods and analysis: Multicentre cross-sectional study including an adult sample of patients or controls: diagnosed BD or MDD currently meeting criteria for a depressive episode. A structured diagnostic interview based on validated scales will be used to collect sociodemographic variables, clinical history, toxic consumption, current treatment and quality of life will be assessed. Blood samples will be obtained and stored at -80°C until RNA sequencing analysis. The EDIT-B is a blood-based test that combines RNA editing biomarkers and individual data (e.g., age, sex, and tobacco use) to obtain a value of 0–1. A value of 0.5 is the threshold for BD diagnosis, which was evaluated using the area under the curves sensitivity, specificity, positive and negative predictive values, and likelihood ratios.

Ethics and dissemination: The principles of the Declaration of Helsinki 2013, precision psychiatry research and good clinical practice will be followed. The Research Ethics Committee of the participating centers approved the study. Participants will receive an information sheet and must sign the informed consent before the interview. Participants' data will be processed and stored at the research sites. Any publication will only be allowed after publication of the final study results. The study will be disseminated in international psychiatry journals and presented at international conferences.

Study registration: This study has been registered on [clinicaltrials.gov](https://clinicaltrials.gov/ct2/show/NCT06018198). Registration date: 28-10-2022.

Keywords: Bipolar disorder, RNA editing, Epigenetics, Depression & mood disorders, Diagnosis, Machine learning



Research paper

AI algorithm combined with RNA editing-based blood biomarkers to discriminate bipolar from major depressive disorders in an external validation multicentric cohort

Nicolas Salvat^a, Francisco Jesus Checa-Robles^a, Aurélie Delacrétaz^b, Christopher Cayzac^a, Benjamin Dubuc^a, Diana Vetter^a, Jacques Dainat^a, Jean-Philippe Lang^{a,b}, Franziska Gamma^b, Dinah Weissmann^a[✉]

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ARTICLE INFO

Keywords:
A-to-T RNA editing
Blood biomarker
Bipolar disorder
Psychiatry diagnostic
NCG
Machine learning
Artificial intelligence

Bipolar disorder (BD) is a leading cause of disability worldwide, as it can lead to cognitive and functional impairment and premature mortality. The first episode of BD is usually a depressive episode and is often misdiagnosed as major depressive disorder (MDD). Growing evidence indicates that peripheral immune activation and inflammation are involved in the pathophysiology of BD and MDD. Recently, by developing a panel of RNA editing-based blood biomarkers able to discriminate MDD from depressive BD, we have provided clinicians a new tool to reduce the misdiagnosis delay in patients suffering from BD. The present study aims at validating the diagnostic value of this panel in a new cohort of BD patients recruited in Brazil. The RNA-editing based blood biomarker (RMED) algorithm developed allowed to accurately discriminate MDD from depressive BD in an external cohort, with high accuracy, sensitivity and specificity values (82.5 %, 96.4 % and 90.4 %, respectively). These findings further confirm the important role of RNA editing in the physiopathology of mental disorders and emphasize the possible clinical usefulness of the biomarker panel for optimization treatment delay in patients suffering from BD.



SYNLAB
PARTNER DI SALUTE

EDIT-B
La prima analisi
su prelievo ematico
per la Diagnosi differenziale
tra Disturbo Bipolare
e Depressione Unipolare

Un importante supporto
alla pratica clinica che
permette una diagnosi
precoce e la distinzione
tra disturbo bipolare e
depressione unipolare.

25-28 NOVEMBRE 2025
AREZZO FIERE E CONGRESSI

20
Years
2006-2025

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**TEST myEDIT-B PER LA DIAGNOSI DIFFERENZIALE TRA DISTURBO
BIPOLARE E DEPRESSIONE UNIPOLARE**

Il test myEDIT-B rientra nel processo di diagnosi per i disturbi dell'umore, a supporto dei metodi diagnostici già in uso. È destinato a pazienti di ambo i sessi, maggiori di 18 anni, per i quali è già stata formulata una diagnosi e che sono già in trattamento per episodi depressivi.

Il test viene effettuato tramite tecniche NGS (next generation sequencing) mirate a rilevare specifici profili di RNA editing (adenosina in inosina in 8 biomarker).

Si ricorda che il risultato funge da supporto nella diagnosi; pertanto, un esito non esclude necessariamente l'altro e questo deve essere inserito nel contesto clinico del paziente che vi si è sottoposto.

AVVERTENZE

- L'invio dei campioni biologici deve essere sempre accompagnato dalla modulistica SCHEACC041 adeguatamente compilata e firmata sia dal medico specialista richiedente che dal paziente;
- la mancata compilazione di anche solo un campo di SCHEACC041 implica l'impossibilità di accettazione del paziente da parte del personale di accettazione;
- la compilazione di SCHEACC041 è obbligatoria ai fini dell'erogazione del test: non saranno accettate eventuali versioni alternative (es.: richiesta redatta dal medico su carta bianca);
- le credenziali per lo scarico del referto sono quelle fornite al medico in sede di attivazione della convenzione o possono eventualmente essere richieste al back office regionale di riferimento;
- in taluni casi l'RNA estratto dai campioni biologici può risultare non idoneo all'esecuzione del test. In questi casi si rende necessaria la ripetizione del prelievo e la ricompilazione della SCHEACC041.

DOCUMENTI NECESSARI

SCHEACC041 Scheda accettazione ed informativa myEDIT-B

PREPARAZIONE DOCUMENTAZIONE

È responsabilità del medico richiedente fornire le informazioni necessarie per l'esecuzione del test, compilando debitamente il documento SCHEACC041.

Il documento presenta:

- sezione relativa alla anagrafica del paziente, alla raccolta delle informazioni cliniche e sui farmaci in uso;
- sezione relativa all'informativa specifica per il medico richiedente, a valle della quale lo stesso appone data e firma;
- sezione relativa alla dichiarazione rilasciata dal paziente riguardante l'autorizzazione al ricevimento del referto da parte del medico prescrittore; a valle della dichiarazione il paziente appone la propria firma;
- sezione informativa sul test myEDIT-B, riguardo al materiale biologico oggetto dell'analisi, al know-how sottostante l'esame stesso, al tipo di risultato erogato e, anche, informazioni su performance e limiti del test;
- sezione relativa all'espressione del consenso da parte del paziente.