# ANALYSIS OF PALLIATIVE CARE RETRACTED PUBLICATIONS INDEXED IN PUBMED

Angela Recchia, PhD, Fondazione VIDAS - angela.recchia@vidas.it Alessandra Favero, MD, Fondazione VIDAS - alessandra.favero@vidas.it Barbara Rizzi, MD, Fondazione VIDAS - barbara.rizzi@vidas.it

#### **BACKGROUND**

Retraction means that a research paper has been formally removed from the scientific body of literature. The main purpose of retractions is to correct the literature and ensure its integrity<sup>1</sup>. In recent years the retraction of scientific papers is an increasing worldwide phenomenon. The retraction of biomedical articles published in Europe has quadrupled from 2000 to 2021<sup>2</sup>.

What is unclear is whether the growth of literature retractions is due to rising misconduct or improvements in abilities to detect them<sup>3</sup>. The retraction of articles in the Palliative Care (PC) literature has not been examined yet. Therefore, it is imperative to analyze the phenomenon of paper retractions, identifying the indicators that can help to understand the retraction situation in this discipline and gaining a deeper understanding of the reasons behind these retractions.

## AIM

The aim of this study is to estimate the frequency, the characteristics and the reasons for retracting publications in PC.

### **METHODS & STATISTICAL ANALYSIS**

A literature review of the articles retracted in PC literature has been carried out using PubMed database from 1987 to November 2024. The search was conducted on 25 November 2024 and the articles were searched in PubMed with MeSH (Medical Subject Headings: the PubMed vocabulary thesaurus used for indexing articles in the database). All unrelated and nonretracted articles, abstracts, conference papers were excluded.

The extracted data were relevant to the bibliographic information of the articles and for the retraction notices.

The characteristics of retracted articles were reported by mean and standard deviation (SD); by counts (n) or proportions (%) for categorial variables. ΑII analysis were using Microsoft Excel performed and JMP.

have quadrupled in 20 years - why?. *Nature*. 2024;630(8016):280-281.

#### **RESULTS**

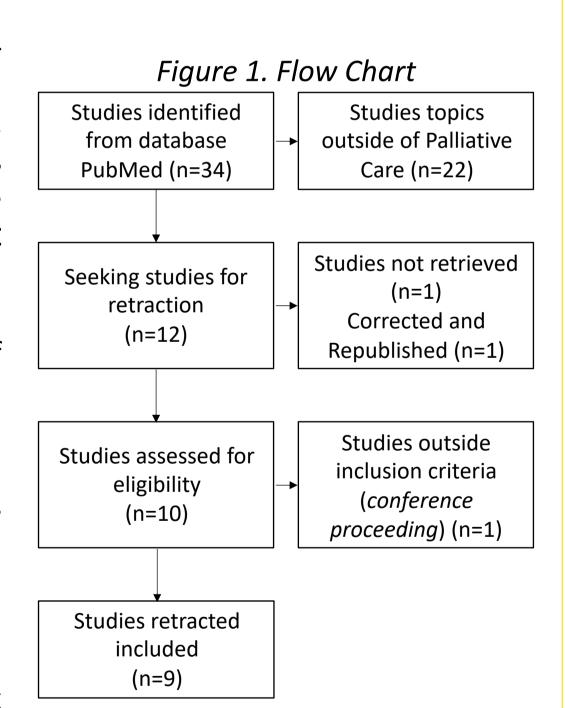
The search strategy returned 34 citations, out of which 22 (64.7%) with topics unrelated to PC and 12 (35.3%) represented by articles sought for retrieval. After the selection process, 9 (26.5%) PC retracted articles were included in the study.

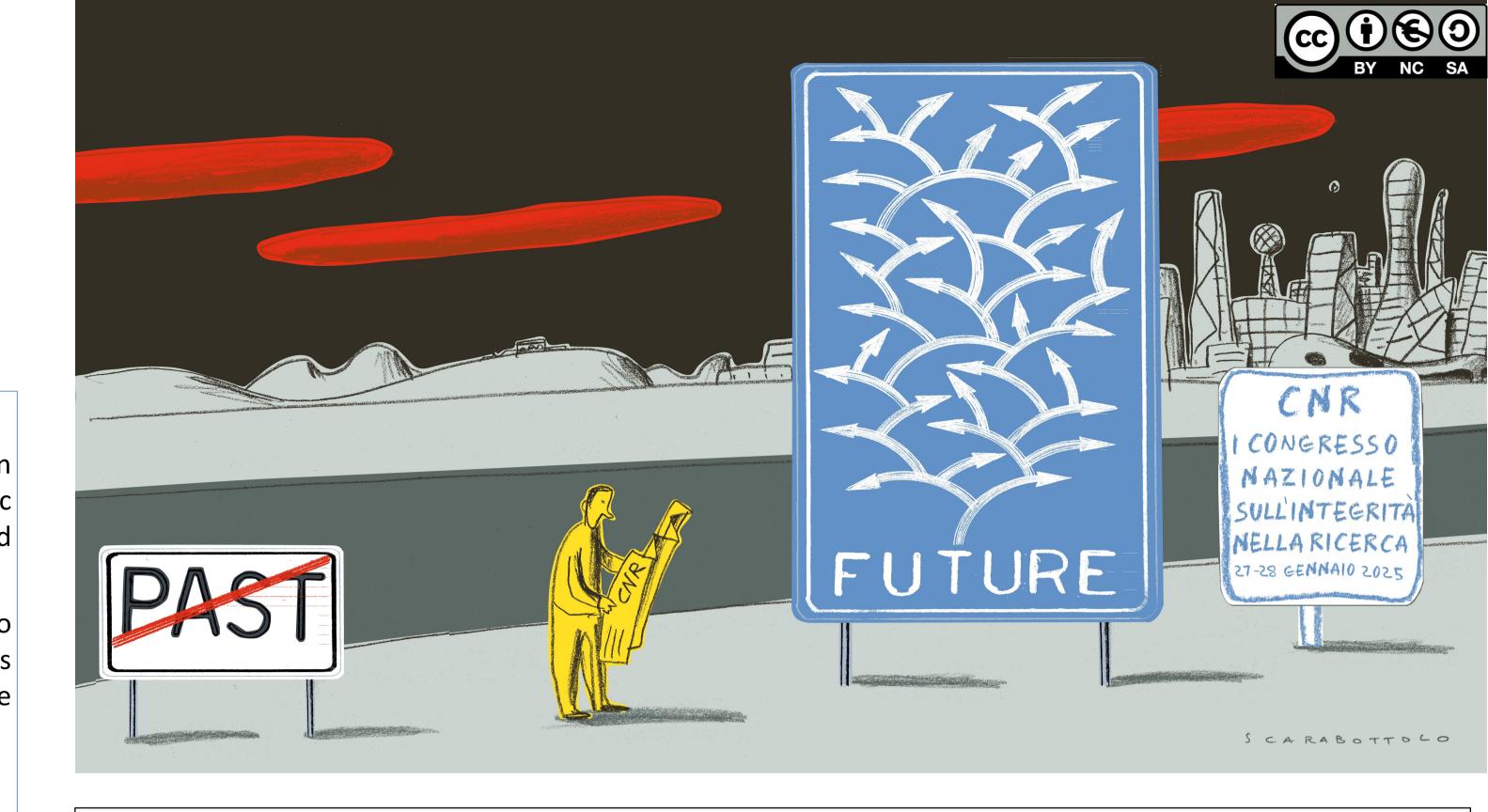
Figure 1 shows the flow chart of identification of retracted articles.

The characteristics of retracted articles are reported in Table 1.

The most cited article referenced 120 times, 79 before and 41 after the retraction. All retraction notices were available from web site journals, linked to the retracted article and clearly labelled. Six papers (66.6%) were watermarked. The reasons for retraction were

misconducts (n=5; 55.6%), honest errors (n=2; 22.2%), publisher's error (n=1; 11.1%) and not stated for one (n=1; 11.1%).





### **CONCLUSION**

Table 1. Characteristics of retracted articles Research design (n, %) Quantitative study Qualitative study Publication year (n, %) 4 (44.4) ≥ 2020 5 (55.6) ≤ 2019 Origin country of the corrisponding author 3(33.3) year<sup>6</sup>. North America Australia Retraction year (n, %) Impact Factor (means, DS) Citation (range)

This is the investigates retraction. explored biomedical specialties between and/or 2012-2024 identified minimum of 37 1 (11.1) Our review reports a very low papers over the past 20 years<sup>9</sup>. 1 (11.1) number of retracted articles in PC Retracted literature compared to other referenced The specialities. 5 (55.6) **medical** 4 (44.4) number of palliative care retracted spreading misinformation, hindering publications, the different time scientific frames of the studies and the research integrity and public trust in different definitions of retraction research, and misguiding policy

reasons are the main problems that decisions.

make a comparison study between

study that PC and other disciplines impossible. publications' The leading retraction reason was misconduct errors (55.6%), followed Retraction in biomedical literature by honest errors (22.2%), such as error in analyses and in results conclusion; finally, a publisher's error (11.1%). This is articles for consistent with a systematic review 1 (11.1) rehabilitation and sport science<sup>4</sup> that found that misconduct errors and a maximum of 1582 for are more frequently recorded in genetics<sup>5</sup>. Further, a recent study biomedical literature<sup>7</sup>, with a crossidentified the highest number of sectional study of retraction notice retractions, about 2373, in oncology at BioMed Central<sup>8</sup> and with an (n, %) from 1990 to 2022 and an increased article published in Nature and 4 (44.4) trend of retracted articles year by reporting information on the increase in retractions of biomedical articles after even their low retraction, enhancing the risks of

progress,

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