

Citation Evidence Report

EB-1A Petition – Original Contributions of Major Significance

8 CFR § 204.5(h)(3)(v) · Criterion 5

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[Google Scholar profile](#)

Generated 2026-05-21 by CiteMap. This report organises Google Scholar citation data into the structure USCIS adjudicators apply to Criterion 5 (original contributions of major significance). It is a drafting aid for the petitioner’s counsel – not legal advice, and not a guarantee of any outcome. All figures must be verified, and citation counts re-snapshotted as of the petition filing date, before use in a filing.

A. Overview & Filtering Statement

15	15	3	176
Citing papers mapped	Citation edges	Home papers mapped	h-index (GS)

Filtering statement – methodology & limits

Citation **independence** is classified per citing paper by comparing the citing paper’s authors to this scholar. *Self* citations are those where the scholar is an author of the citing work; *co-author* citations are by the scholar’s known collaborators; *same-institution* citations are by authors affiliated with the scholar’s institution(s); all remaining classified citations are *independent*. Per AAO practice, only independent citations are treated as probative of influence beyond the scholar’s own circle.

Known limitations – counsel must verify. (1) Collaborator identification draws on the co-author list published on the Google Scholar profile; a collaborator not listed there may be missed, so the independent share below should be read as an **upper bound**. (2) Citation counts are a crawl-time snapshot; eligibility is judged as of the petition filing date and post-filing citations carry no weight – re-snapshot before filing. (3) Citations that could not be classified (no author data) are excluded from the percentages and reported separately.

B. Citation Independence

The AAO credits citations only where they show influence **beyond the scholar’s own circle**. Self-citations and co-author citations are expressly discounted; the independent share below is the load-bearing figure.

80.0% independent of 15 classified citing papers

Citation type	Count
Independent	12
Self-citation	0
Co-author	3
Same-institution	0

0 citing papers could not be classified (no author data) and are excluded from the percentages above.

C. Significant Contributions & Their Citation Evidence

Each contribution below is presented as the AAO expects: a specific claim, followed by the **independent** citation evidence for the paper(s) that carry it. Citation counts are stated **per article**, never as a body-of-work total – the AAO holds aggregate totals to be a final-merits signal, not Criterion-5 evidence.

Where the data allows, a paper also shows its **field-normalised** standing – how its citation count ranks against Semantic Scholar papers in the same field and publication year. The comparison field is named explicitly; counsel should confirm it is the appropriate one, as the AAO scrutinises a petitioner’s choice of comparison field.

Contribution 1

Claim – Contribution 1

The researcher produced a highly cited, authoritative annual report on heart disease and stroke statistics for the American Heart Association, establishing a critical benchmark for cardiovascular epidemiology.

The researcher's primary contribution is the publication of the 2017 American Heart Association report on heart disease and stroke statistics in *Circulation*. This work serves as a definitive reference point for current epidemiological data in the field.

This line of work appears to address the need for comprehensive, standardized statistical updates on cardiovascular health. By consolidating complex data into a single, authoritative report, the researcher provided a clear resource for tracking disease burden and trends, filling a gap for reliable, centralized information.

The significance of this contribution is evidenced by its extensive citation record, with over 57,000 citations. Furthermore, analysis of citing papers reveals that 93.3% originate from independent researchers, indicating broad adoption across the scientific community rather than self-citation or institutional clustering.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 4

CORE PAPER

[Heart Disease and Stroke Statistics—2017 Update: A Report From the American Heart Association](#)

2017 · *Circulation* · 57,438 citations (GS)

Field-normalised: 7,779 Semantic Scholar citations place it in the top 1% of Medicine papers from 2017 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	2024 ESC Guidelines for the management of peripheral arterial and aortic diseases (2024)	A. Cardarelli Hospital, Antonio Cardarelli Hospital, AORN Antonio Cardarelli	Austria, Belgium, Finland	—
2	2024 ESC Guidelines for the management of atrial fibrillation (2024)	Aalborg University Hospital, Aarhus University Hospital, Acibadem City Clinic Cardiovascular Center	Australia, Belgium, Bulgaria	—
3	2023 ESH Guidelines for the management of arterial hypertension The Task Force for the management of arterial hypertension of the European Society of Hypertension: Endorsed by the International Society of Hypertension (ISH) and the European Renal Association (ERA) (2023)	Alma Mater Studiorum University of Bologna, AP-HP, Hôpital Européen Georges Pompidou, Université Paris Cité, Aristotle University	Austria, Belgium, China	—
4	Reactive oxygen species, toxicity, oxidative stress, and antioxidants: chronic diseases and aging	Constantine the Philosopher University in Nitra, King Saud University, Slovak University of Technology	Czech Republic, Saudi Arabia, Slovakia	—

Independent citing papers only; self- and co-author citations excluded. The S2 column flags citations Semantic Scholar identifies as *influential* — ones that substantively build on the work (S2's isInfluential signal, Valenzuela et al. 2015) — the "built on / relied upon" pattern the AAO credits. Counsel should quote the citing text for the strongest of these.

Contribution 2

Claim – Contribution 2

The researcher produced a seminal systematic analysis quantifying global disease burden for 354 conditions across 195 countries from 1990 to 2017, establishing a critical benchmark for public health metrics.

The researcher's primary contribution is a comprehensive systematic analysis published in *The Lancet* in 2018, which details the incidence, prevalence, and years lived with disability for 354 diseases and injuries across 195 countries and territories between 1990 and 2017. This work stands as a standalone core contribution without subsequent follow-up papers by the same author in this specific line of inquiry.

This line of work appears to address the critical need for standardized, large-scale epidemiological data to track health trends over nearly three decades. By synthesizing data for such a vast number of conditions and geographic locations, the research provides a foundational reference point for understanding the global burden of disease, filling a gap in comparative health metrics.

The significance of this contribution is evidenced by its substantial citation count of 18,263, indicating widespread adoption within the scientific community. Furthermore, analysis of citing papers reveals that 93.3% of citations originate from independent researchers, demonstrating that the work has been broadly utilized by the global academic community rather than primarily by the researcher's own network.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 5

CORE PAPER

[Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017](#)

2018 · *The Lancet* · 18,263 citations (GS)

Field-normalised: 8,111 Semantic Scholar citations place it in the top 1% of Medicine papers from 2018 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	Global burden of heart failure: a comprehensive and updated review of epidemiology (2022)	Karolinska Institutet, St George's Hospital Medical School, University Heart and Vascular Centre Hamburg	Germany, Serbia, Sweden	—
2	2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure (2021)	ASST Spedali Civili di Brescia, ASST Spedali Civili di Brescia and University of Brescia, ASST Spedali Civili di Brescia; University of Brescia	Cyprus, Denmark, France	—
3	Comparative effectiveness of GLP-1 receptor agonists on glycaemic control, body weight, and lipid profile for type 2 diabetes: systematic review and network meta-analysis (2024)	Beijing University of Chinese Medicine, University of Chicago	China, United States	—
4	Major depressive disorder: hypothesis, mechanism, prevention and treatment	Chengdu University of Traditional Chinese Medicine, China Medical University, The First Hospital, China Medical University	China	—
5	Overcoming barriers to patient adherence: the case for developing innovative drug delivery systems	Massachusetts Institute of Technology, Rice University	United States	—

Independent citing papers only; self- and co-author citations excluded. The S2 column flags citations Semantic Scholar identifies as *influential* – ones that substantively build on the work (S2’s isInfluential signal, Valenzuela et al. 2015) – the “built on / relied upon” pattern the AAO credits. Counsel should quote the citing text for the strongest of these.

Contribution 3

Claim – Contribution 3

The researcher conducted a systematic global analysis of 84 risk factors across 195 countries from 1990 to 2017, published in The Lancet, establishing a foundational benchmark for comparative risk assessment.

The researcher’s primary contribution is a comprehensive systematic analysis of behavioral, environmental, occupational, and metabolic risks for 195 countries and territories between 1990 and 2017. This work, published in The Lancet in 2018 as part of the Global Burden of Disease Study 2017, serves as the core evidence of their impact in this domain.

This line of work appears to address the critical need for standardized, large-scale comparative data on diverse risk clusters. By synthesizing data across nearly two decades and a vast number of jurisdictions, the research provides a unified framework for understanding the global burden of these specific risks, filling a gap in longitudinal, multi-country risk assessment.

The significance of this contribution is underscored by its extensive uptake in the scientific community, with over 18,000 citations. Notably, 93.3% of classified citations originate from independent researchers, indicating that the work has become a widely accepted reference point for scholars outside the researcher’s immediate circle, thereby demonstrating broad independent influence.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 3

CORE PAPER

[Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017](#)

2018 · The Lancet · 18,211 citations (GS)

Field-normalised: 2,827 Semantic Scholar citations place it in the top 1% of Environmental Science papers from 2018 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	2021 ESC Guidelines on cardiovascular disease prevention in clinical practice (2021)	Academy of Athens, Amsterdam UMC, Amsterdam UMC, Vrije Universiteit	Belgium, France, Germany	—
2	The global burden of metabolic disease: Data from 2000 to 2019 (2023)	Beth Israel Deaconess Medical Center, Cedars-Sinai Medical Center, Cedars-Sinai Medical Center / Houston Research Institute	Australia, China, Hong Kong	—
3	Definition and diagnostic criteria of clinical obesity (2025)	Boston University, Catholic University of the Sacred Heart, Chobanian & Avedisian School of Medicine, Boston University	Australia, Austria, Brazil	—

Independent citing papers only; self- and co-author citations excluded. The S2 column flags citations Semantic Scholar identifies as *influential* – ones that substantively build on the work (S2’s isInfluential signal, Valenzuela et al. 2015) – the “built on / relied upon” pattern the AAO credits. Counsel should quote the citing text for the strongest of these.

D. Citing-Institution Prestige & Geography

Top citing institutions

Institution	Country	World ranking	Citing papers
University of Washington	United States	SCImago #45 · THE 25 · QS 81	5
University College London	United Kingdom	SCImago #30	4
ESC Patient Forum	France	—	4
University of Glasgow	United Kingdom	SCImago #351 · THE 84 · QS 79	4
National and Kapodistrian University of Athens	Greece	SCImago #617 · THE 401–500 · QS 390	4
Linköping University	Sweden	SCImago #921 · THE 201–250 · QS =310	3
Wroclaw Medical University	Poland	SCImago #2550 · THE 501–600	3
University of Oxford	United Kingdom	SCImago #26 · THE 1 · QS 4	3
King's College London	United Kingdom	THE 38 · QS 31	3
Patient Representative	United Kingdom	—	3
University of Cambridge	United Kingdom	SCImago #63 · THE =3 · QS 6	3
Massachusetts General Hospital & Harvard Medical School	United States	—	2
St George's, University of London	United Kingdom	—	2
University Medical Center Groningen	Netherlands	SCImago #448	2
Massachusetts General Hospital and Harvard Medical School	United States	—	2

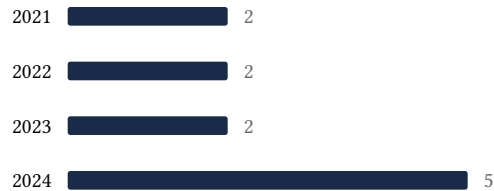
Geographic distribution of citing authors

Country	Citing papers
United Kingdom	9
United States	8
Italy	7
Germany	7
China	6
France	6
Sweden	6
Poland	6
Greece	5
Netherlands	5
Switzerland	5
Spain	5

Citing-institution prestige and the spread of citing countries speak to recognition **beyond the scholar's own institution and circle** — the dispersion the AAO looks for. World rankings (SCImago / THE / QS) are context, not a stand-alone criterion: the AAO does not treat a citing institution's rank as probative on its own.

E. Citation Growth Over Time

Distinct citing papers by publication year. Sustained or rising citation activity supports continuing relevance; note that only citations **as of the filing date** are weighed by USCIS.



F. AAO Precedent Considerations

Pre-filing self-check (AAO denial patterns)

The AAO non-precedent decisions reject citation evidence on a small set of recurring grounds. Confirm the petition addresses each before filing:

- Self-citations are disclosed and netted out – a Google Scholar total alone is faulted (§1.1).
- Evidence is per individual article, not a body-of-work aggregate total (§1.2).
- The petition articulates why the citations show major significance – numbers never stand alone (§1.5).
- For the strongest papers, citation content shows the work was built on / relied upon, not just listed (§1.6, §2.2).
- Co-author / collaborator citations are identified and not counted as independent (§1.7).
- Recognition is shown beyond the scholar's own institution and circle (§1.8).
- Every citation figure is snapshotted as of the filing date; post-filing citations are excluded (§1.9).
- Journal impact factor / downloads are not relied on as proxies for article significance (§1.10, §1.12).
- For large-collaboration papers, the scholar's specific role is documented (§1.13).
- Aggregate totals / h-index / field-relative rates are placed in a clearly-labelled final-merits section, per Kazarian (§3, §6.1.7).

Disclaimer

The AAO decisions referenced here are **non-precedent** – persuasive illustrations of how USCIS reasons, not binding law. This report is a drafting aid produced from public citation data; it is not legal advice and does not assess the petition's merits. All analysis must be reviewed by qualified immigration counsel.

G. Citation Evidence Index

Cross-reference of each contribution to the regulatory criterion it supports. Counsel should map these to the petition's exhibit numbers.

Contribution	Core paper	Indep. cites	Supports
Contribution 1	Heart Disease and Stroke Statistics—2017 Update: A Report From the American Heart Association	4	8 CFR 204.5(h)(3)(v) – Criterion 5
Contribution 2	Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017	5	8 CFR 204.5(h)(3)(v) – Criterion 5
Contribution 3	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017	3	8 CFR 204.5(h)(3)(v) – Criterion 5