

# Glyphosate exposure ups NHL risk by 41% in meta-analysis

- Univadis Clinical Summaries
- 21 februari 2019
- Geen view
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Beoordeling

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## Takeaway

- Glyphosate is the world's most widely used herbicide and is associated with a 41% increase in risk for non-Hodgkin lymphoma (NHL) in individuals with the greatest exposure.
- The herbicide is present in [Roundup](#) and [Ranger PRO](#) (Monsanto).

## Why this matters

- Use of glyphosate-based herbicides (GBHs) has increased dramatically worldwide, and nearly 16-fold between 1992 and 2009 in the United States alone.
- Exposure to glyphosate may be ubiquitous, as glyphosate and its metabolites persist in food, water, and dust.

## Study design

- Meta-analysis of epidemiological evidence to investigate the association between high exposure to GBHs and increased risk for NHL.
- 6 studies met criteria for inclusion: 1 cohort study (2018 Agricultural Health Study [AHS]) and 5 case-control studies comprising a total of approximately 65,000 participants.
- Origin of studies: United States: 2; Canada: 1; Sweden: 2; France: 1.
- Funding: None disclosed.

## Key results

- In primary analysis including the 2018 AHS:
  - 41% increase in overall meta-relative risk (meta-RR) for NHL in individuals exposed to GBHs: meta-RR, 1.41; 95% CI, 1.13-1.75.
- In a secondary analysis including the 2005 AHS:
  - 45% increase in meta-RR for NHL in groups with high exposure to GBHs: meta-RR, 1.45; 95% CI, 1.11-1.91.

## Limitations

- Limited available data.
- Referentie: Zhang L, Rana I, Shaffer RM, Taioli E, Sheppard L. Exposure to Glyphosate-Based Herbicides and Risk for Non-Hodgkin Lymphoma: A Meta-Analysis and Supporting Evidence. *Mutat Res.* 2019 Feb 10 [Epub ahead of print]. doi: 10.1016/j.mrrev.2019.02.001.

