## **EASY-READ ARTICLE SUMMARY**

<u>Article</u>: Pharmacology of *R*-(-)-methamphetamine in humans: A systematic

review of the literature

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## **Key Points:**

- Methamphetamine (meth) is available as two forms: (+)-meth is a strong stimulant and (-)-meth is a nasal decongestant.
- Little is known about the metabolism and effects of (-)-meth in humans, although it can be purchased without a prescription.

## **Glossary:**

<u>Oral fluid</u> = clear liquid secreted in the mouth.

<u>Stimulant</u> = drug that increases physical or mental activity.

Why this article matters: This article summarizes everything we know about the metabolism and effects of (-)-meth in humans and points out where we are missing information. These gaps in our knowledge impact forensic toxicology and law enforcement as methamphetamine is a drug of abuse.

<u>Description of the Study</u>: We carefully searched the scientific literature for all studies on (-)-meth in humans and summarized what was found.

**Research Questions:** What do we know about the metabolism and effects of (-)-meth in humans? How many people were included in these studies?

<u>Important Results</u>: Most of what we know about (-)-meth metabolism in humans comes from studies on urine; information is lacking from blood, plasma, and oral fluid. Only 99 people were included in these studies.

<u>How the results will be used</u>: This work highlights areas where future research on (-)-meth in humans is needed. If completed, drug testing accuracy and criminal investigations related to methamphetamine will be improved.