

A critical appraisal of tenofovir microbicide gel

Tom Boyles

Does it work better than placebo in a RCT?



A close-up photograph of a hand using a pen to check the 'YES' box on a survey form. The form has three options: 'YES', 'NO', and 'DON'T KNOW'. The 'YES' box is checked with a checkmark, while the other two boxes are empty.

YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
DON'T KNOW	<input type="checkbox"/>

Is it useful in specific circumstances?



A close-up photograph of a hand using a pen to check the 'YES' box on a survey form. The form has three options: 'YES', 'NO', and 'DON'T KNOW'. The 'YES' box is checked with a checkmark, and the 'NO' and 'DON'T KNOW' boxes are empty. The background is a bright yellow color.

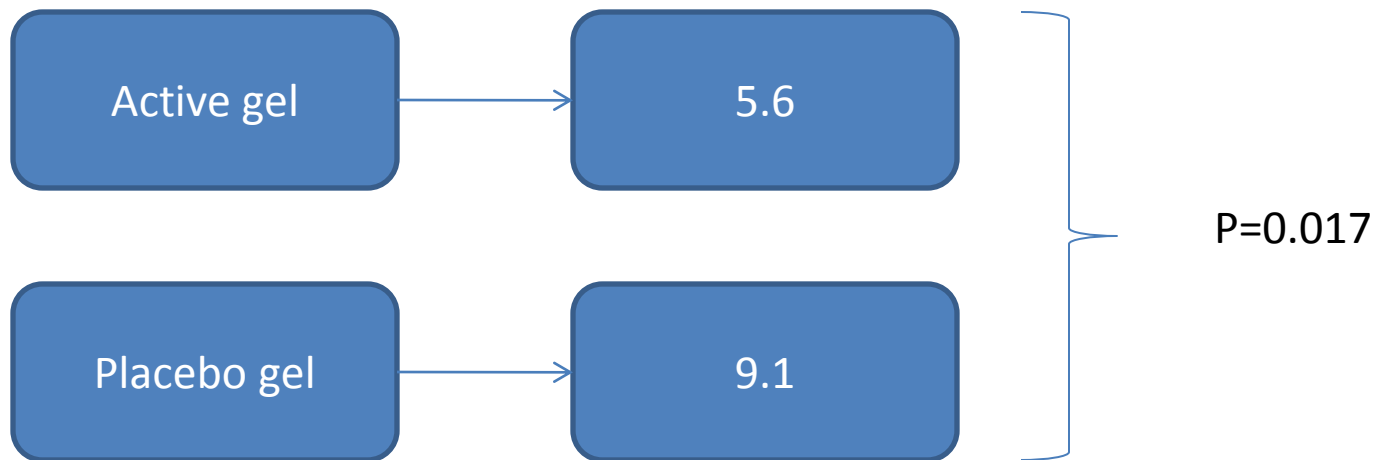
YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
DON'T KNOW	<input type="checkbox"/>

**Is widespread provision likely
to be an effective HIV
prevention strategy?**



Effectiveness and Safety of Tenofovir Gel, an Antiretroviral Microbicide, for the Prevention of HIV Infection in Women

Quarraisha Abdool Karim,^{1,2*}† Salim S. Abdool Karim,^{1,2,3*} Janet A. Frohlich,¹ Anneke C. Grobler,¹ Cheryl Baxter,¹ Leila E. Mansoor,¹ Ayesha B. M. Kharsany,¹ Sengeziwe Sibeko,¹ Koleka P. Mlisana,¹ Zaheen Omar,¹ Tanuja N. Gengiah,¹ Silvia Maarschalk,¹ Natasha Arulappan,¹ Mukelisiwe Mlotshwa,¹ Lynn Morris,⁴ Douglas Taylor,⁵ on behalf of the CAPRISA 004 Trial Group‡



3 Achilles' heels of HIV prevention

- **Adherence**
- **Resistance**
- **Risk compensation**

*Never take a knife to a
gunfight*

'This has the potential to alter the course of the HIV epidemic, especially in southern Africa where young women bear the brunt of this devastating disease.'

Health Minister wants to 'fast-track' gel

Health Minister Dr Aaron Motsoaledi told the Vienna AIDS Conference that the government would consider fast tracking regulatory processes to get the gel into clinics 'as fast as possible', raising fears that short-



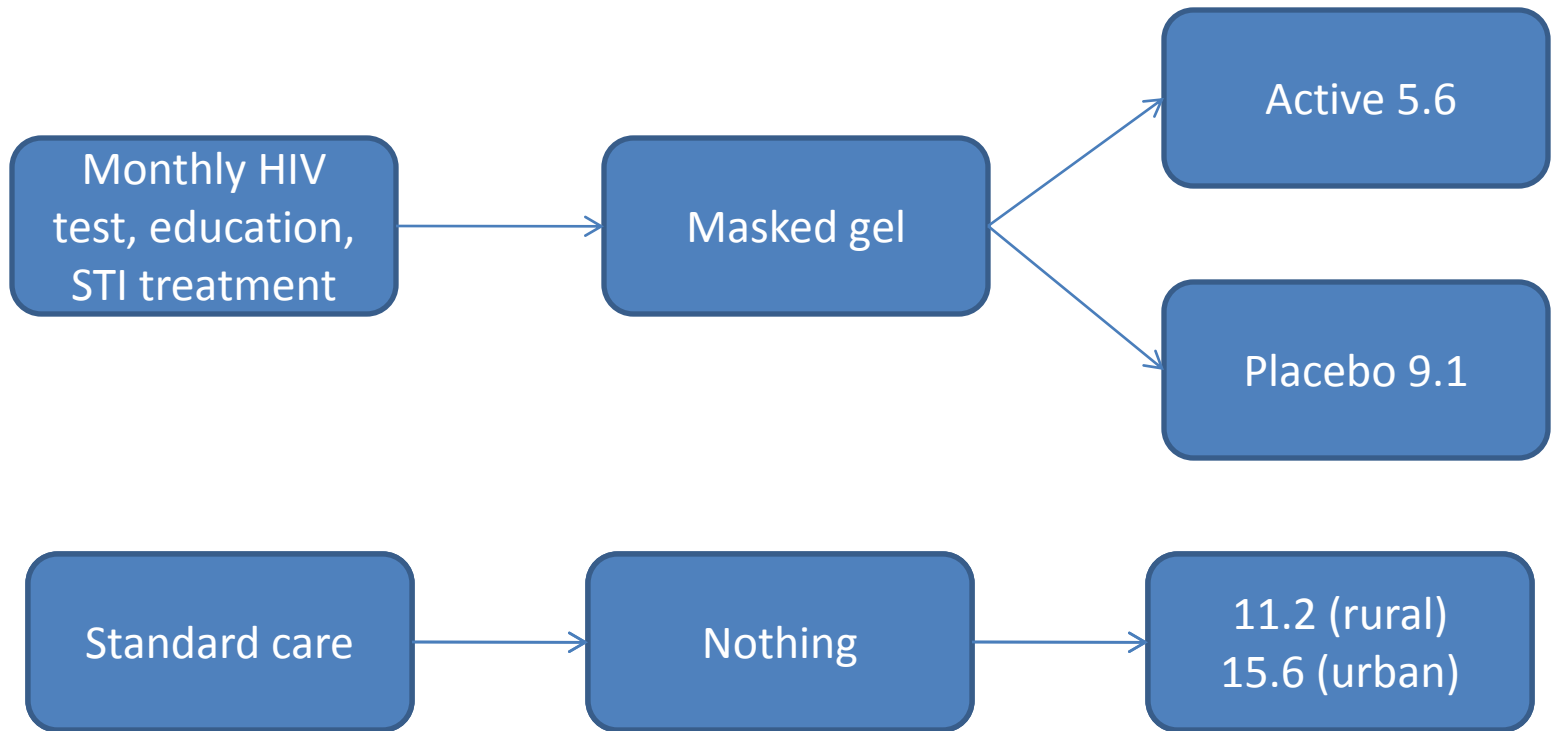
Epidemiological impact of tenofovir gel on the HIV epidemic in South Africa

Order of Authors: Brian Gerard Williams, PhD; Salim S Abdool Karim, MBChB, PhD; Quarrasiha Abdool Karim, Ph. D.; Eleanor Gouws, Ph.D.

Over 20 years

Adherence	Lives saved	Infections prevented
80%	1,000,000	2,000,000
25%	300,000	500,000





Screening for 'window-period' acute HIV infection among pregnant women in rural South Africa

ABM Kharsany,¹ N Hancock,² JA Frohlich,¹ HK Humpries,¹ SS Abdool Karim^{1,3} and Q Abdool Karim^{1,3}

11.2%

Uptake of provider-initiated HIV testing and counseling among women attending an urban sexually transmitted disease clinic in South Africa - missed opportunities for early diagnosis of HIV infection

Ayesha B. M. Kharsany^a; Quarraisha Abdool Karim^{ab}; Salim S. Abdool Karim^{ab}

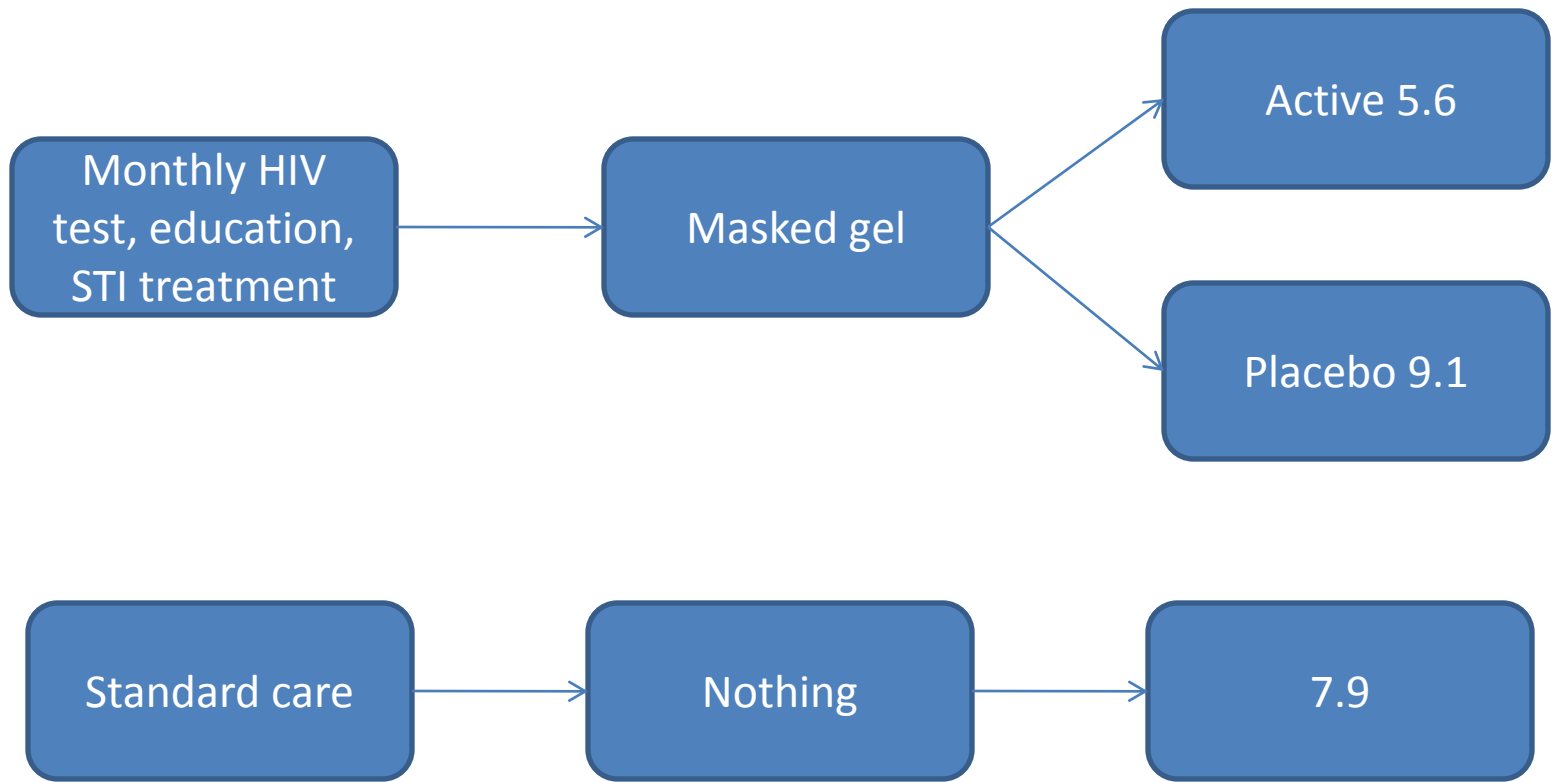
15.6%

High HIV incidence in a community with high HIV prevalence in rural South Africa: findings from a prospective population-based study

Till Bärnighausen^{a,b}, Frank Tanser^a, Zanomsa Gqwede^a, Clifford Mbizana^a, Kobus Herbst^a and Marie-Louise Newell^{a,c}

AIDS 2008, 22:139–144

HIV incidence rate in women 7.9%
(crude rate 3.8%)



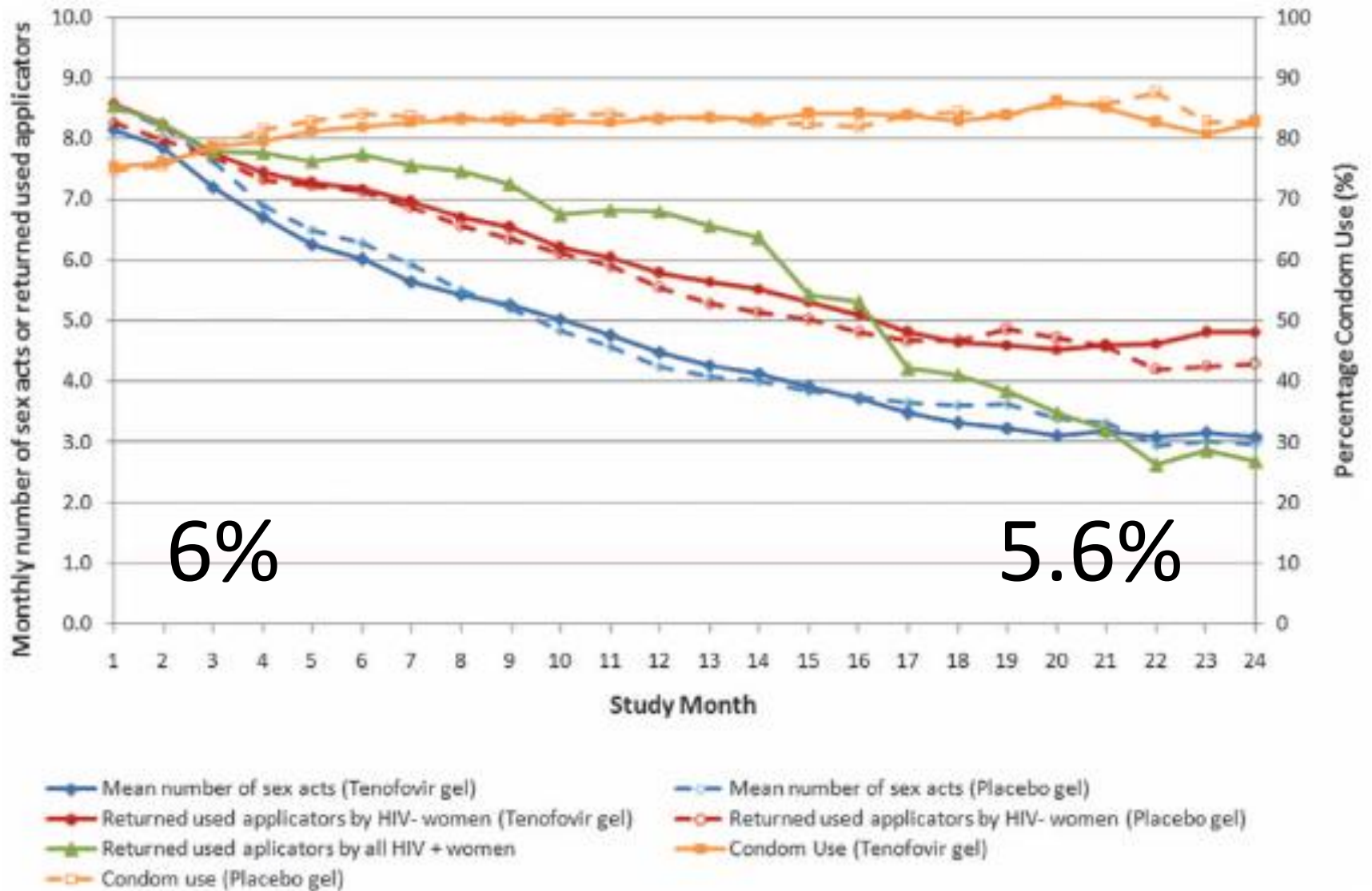
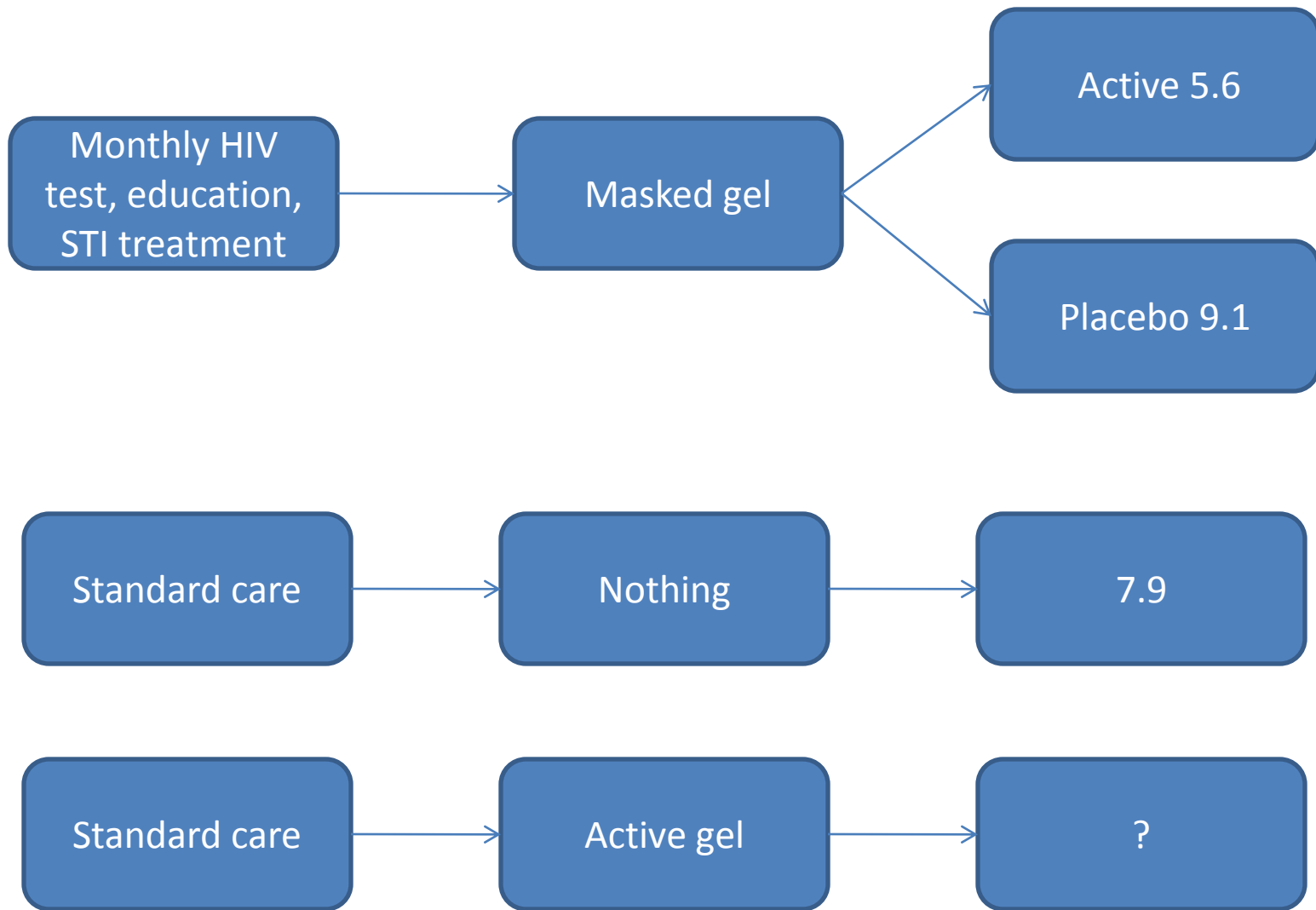


Fig. 3. Trends in coital frequency, condom use, and gel use (gel use by HIV status) in relation to duration of follow-up.

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YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
DON'T KNOW	<input type="checkbox"/>

Tenofovir microbicide gel in specific circumstances?



A close-up photograph of a hand using a pen to check the 'YES' box on a survey form. The form has three options: 'YES', 'NO', and 'DON'T KNOW'. The 'YES' box is checked with a checkmark, and a line is drawn from the checkmark to the right. The 'NO' and 'DON'T KNOW' boxes are empty.

YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
DON'T KNOW	<input type="checkbox"/>

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Thank you