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(12) **United States Patent**  
**Belanoff**

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(45) **Date of Patent:** **Dec. 30, 2014**

(54) **OPTIMIZING MIFEPRISTONE LEVELS IN PLASMA SERUM OF PATIENTS SUFFERING FROM MENTAL DISORDERS TREATABLE WITH GLUCOCORTICOID RECEPTOR ANTAGONISTS**

(52) **U.S. Cl.**  
CPC ..... *G01N 33/49* (2013.01); *A61K 31/56* (2013.01); *A61K 31/575* (2013.01)  
USPC ..... **514/178**  
(58) **Field of Classification Search**  
USPC ..... 514/178  
See application file for complete search history.

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/065,792**

(22) Filed: **Oct. 29, 2013**

(65) **Prior Publication Data**

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**Related U.S. Application Data**

(63) Continuation of application No. 12/199,114, filed on Aug. 27, 2008, now Pat. No. 8,598,149.

(60) Provisional application No. 60/969,027, filed on Aug. 30, 2007.

(51) **Int. Cl.**  
*A61K 31/56* (2006.01)  
*G01N 33/49* (2006.01)  
*A61K 31/575* (2006.01)

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Sarkar, "Mifepristone: bioavailability, pharmacokinetics and effectiveness," *European Journal of Obstetrics and Gynecology and Reproductive Biology*, vol. 101, pp. 113-120 (2002).

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(57) **ABSTRACT**

The present invention provides a method for optimizing levels of mifepristone in a patient suffering from a mental disorder amenable to treatment by mifepristone. The method comprises the steps of treating the patient with seven or more daily doses of mifepristone over a period of seven or more days; testing the serum levels of the patient to determine whether the blood levels of mifepristone are greater than 1300 ng/mL; and adjusting the daily dose of the patient to achieve mifepristone blood levels greater than 1300 ng/mL.

**7 Claims, 6 Drawing Sheets**

**BPRS PSS –Days 7 and 56 Response**

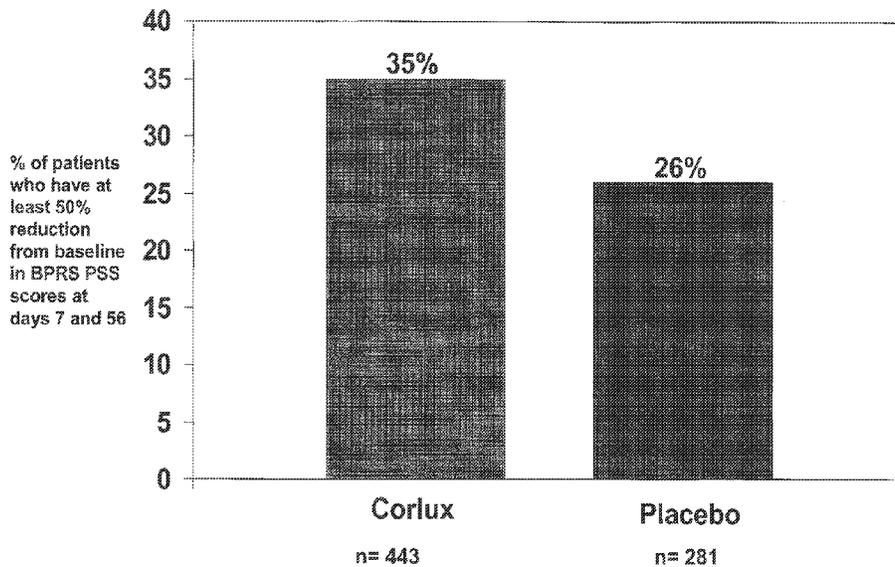


Figure 1.

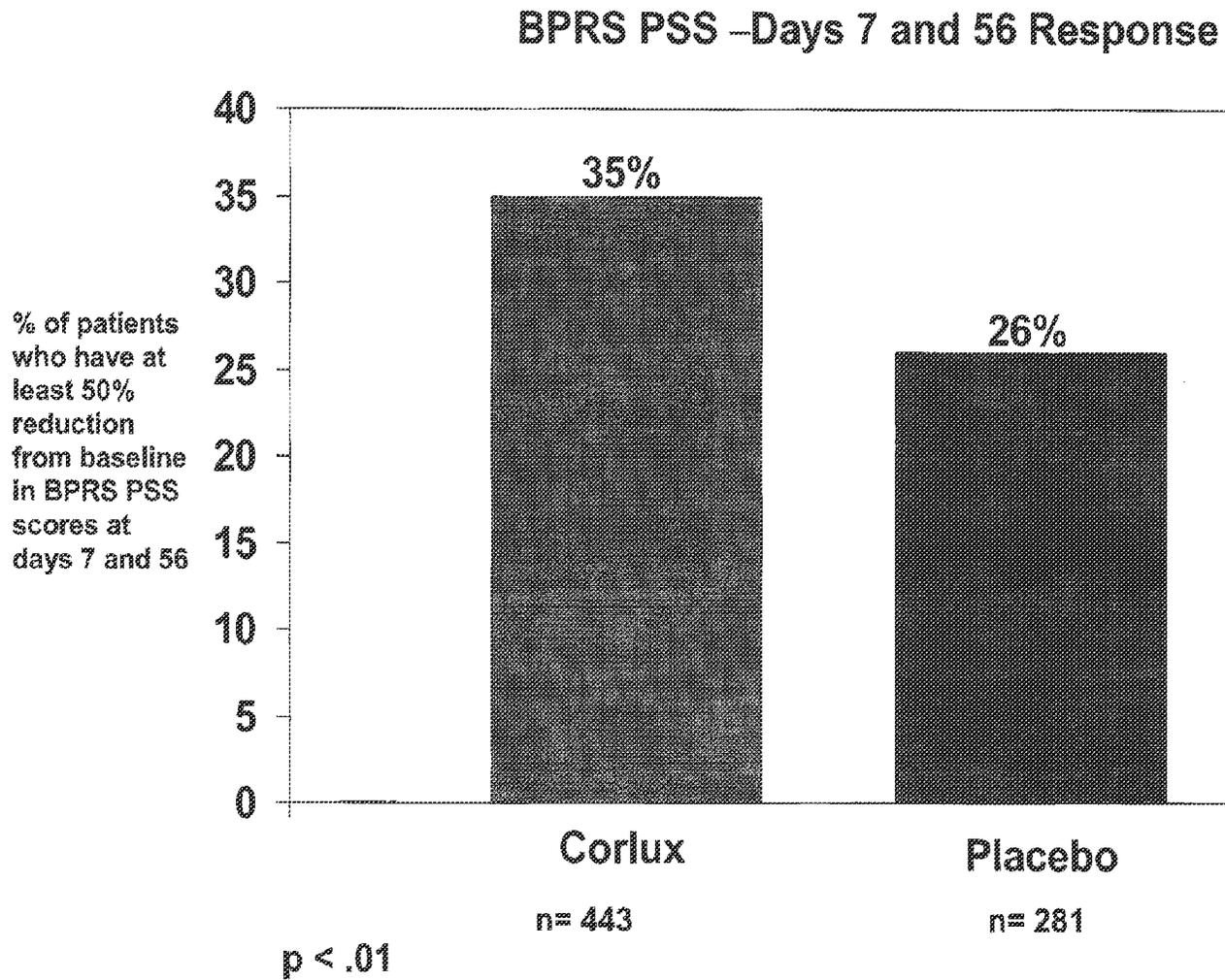


Figure 2.

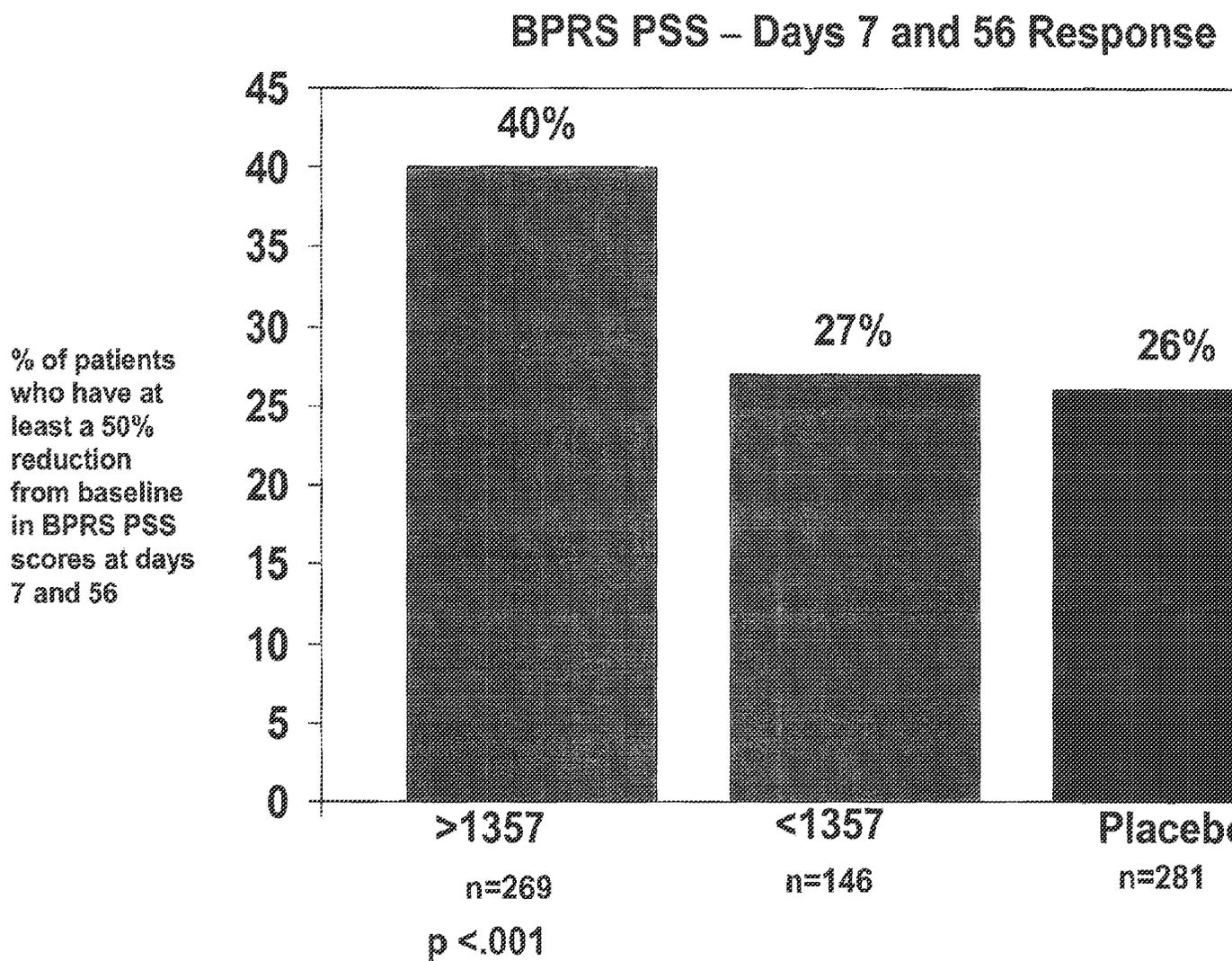


Figure 3.

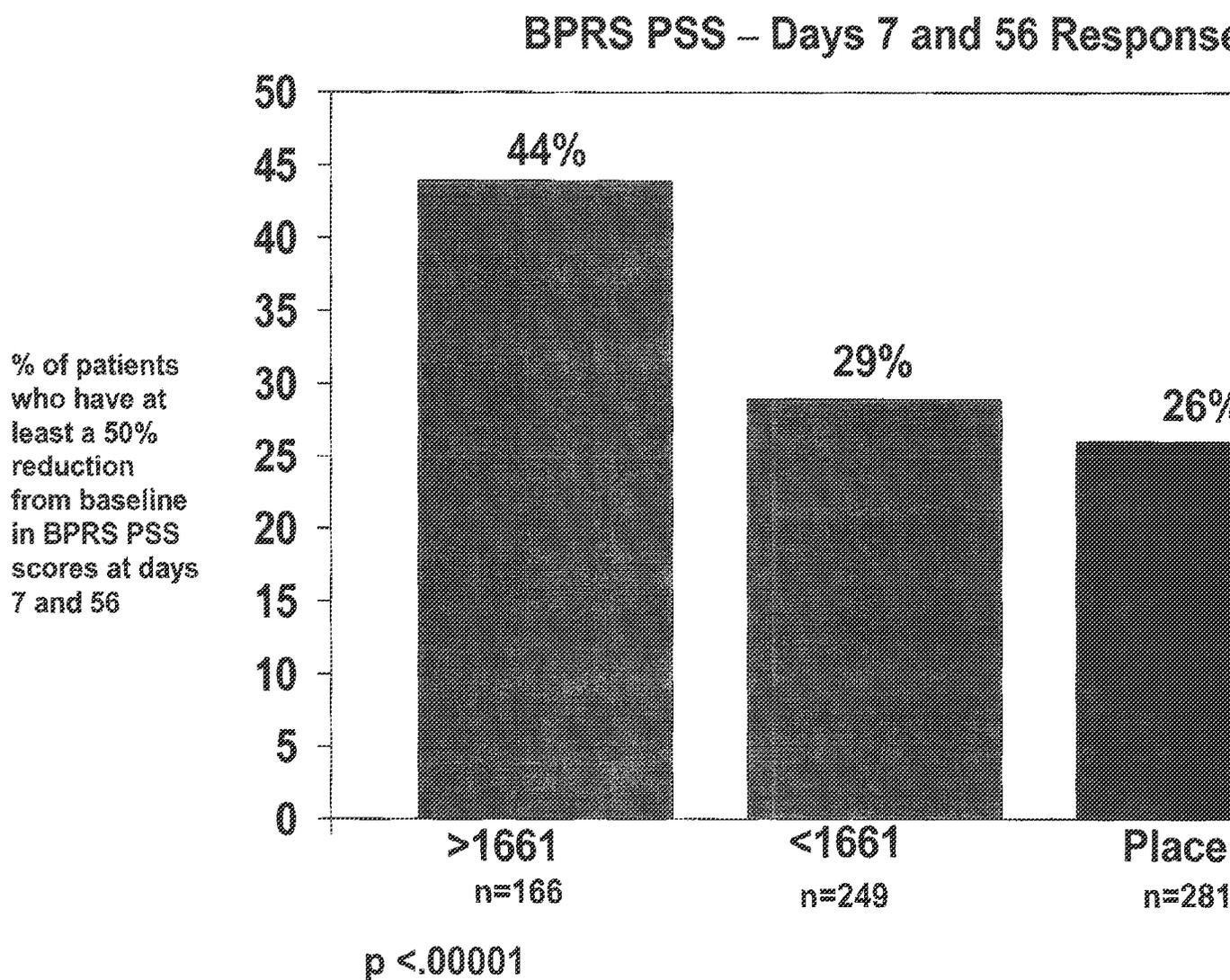
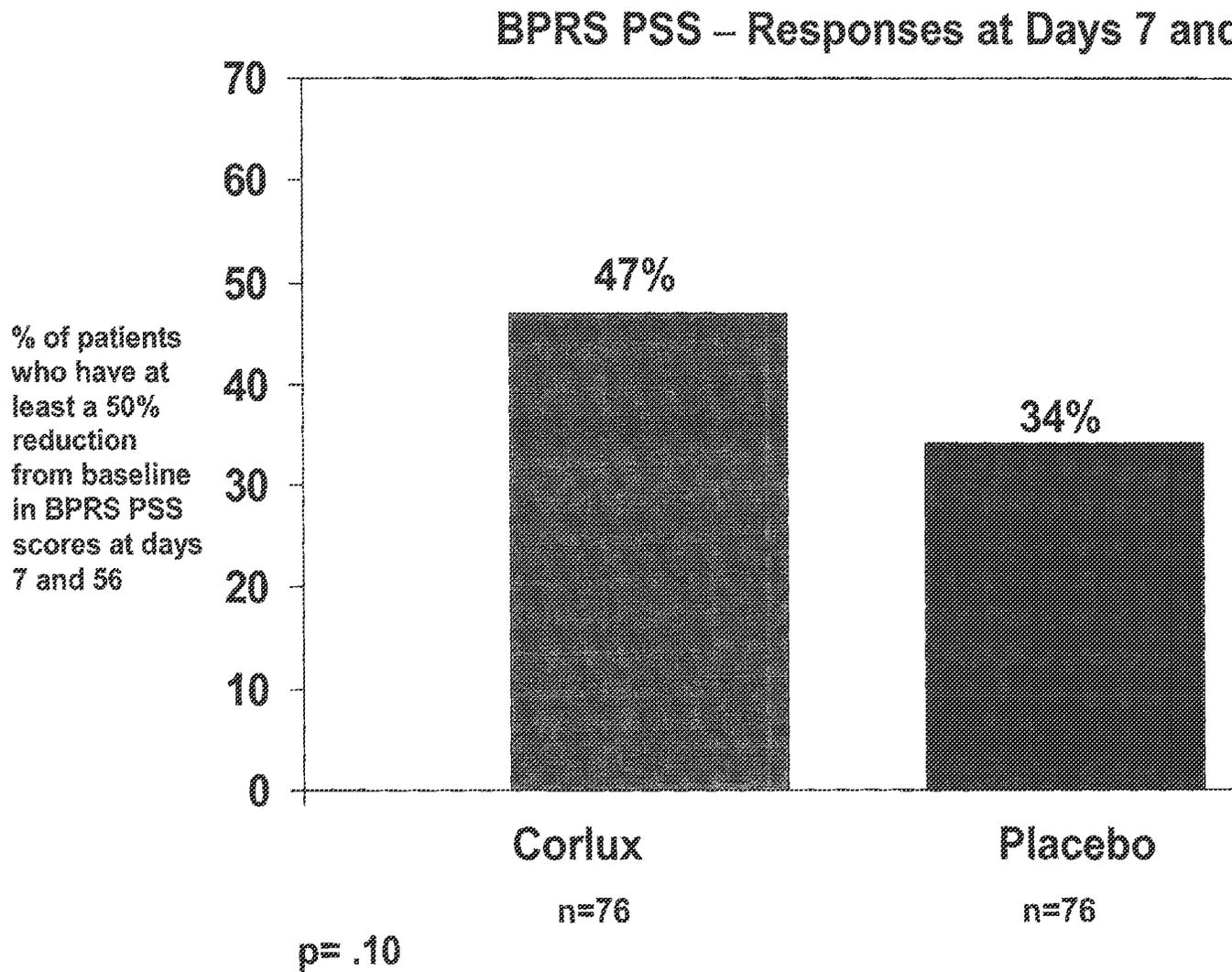


Figure 4.



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