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// : // :

Bayesian Confidence Propagation Neural Network (BCPNN) :

Proportional Reporting Ratio (PRR) Reporting Odds Ratio(ROR)

$\geq \geq , \geq$

BCPNN

PRR

ROR

BCPNN

.()

[Uppsala Monitoring Center

(UMC)]

.()

WHO

Bayesian

Bayesian Confidence) BCPNN .()

(Propagation Neural Network

.()

Medicines)

.()

(Control Agency or MCA

(PRRs)

Proportional Reporting Ratios

Evans .

.()

ADR

.()

PRR

(%) 487

(%)

Proportional (PRRs) ,

(%)

Bayesian data mining Reporting Ratios

(%)

(%)

Prescription) PEM

(Event Monitoring

FDA

Empirical) EBS Data mining
() (Bayesian Screening

Proportional

Reporting Odds Ratios ,Reporting Ratios

Neural Network Bayesian

()

Slone Epidemiology Unit or) Slone
(SEU

(.)

Excel

odds ratios

)

((crude)

WHO Adverse Drug Reaction)
() (Terminology

Reporting Odds (ROR)

(Preferred Term)

Ratio

ROR ()

%

ROR

ROR

%

Access

Query

:

b

a

d

c

()

:

Bayesian Confidence

Propagation Neural Network (BCPNN)

Proportional Reporting Ratio (PRR)

Reporting Odds Ratio (ROR)

Bayesian Confidence Propagation Neural Network (BCPNN)

Information) IC ()

(Component

()

%

IC

PRR

IC-2SD

chi – squared

IC-2SD

IC-2SD > 0

PRR

PRR ≥

(

Chi-squared

PRR % (

.()

PRR
≥ ≥ , ≥

cut-off

PRR ≥ 2, χ^2 ≥ 4 :

≥

≥ ≥

ROR

%

IC

IC-2SD

) PRR

(% /)

(

(/ %)

% /

) ROR

(% /)

(

cut-

(% /)

off

(% ,)

) IC

(% ,)

(

SNIP

.()

(Strength)

(% /)

(NEW)

)

(Clinical Importance) (

IVIG

(Potentially preventable)

(SNIP)

%

%

.()

% / % /

BCPNN , ROR , PRR

% /

IC-2SD

PRR
(proportional mortality ratios)
PRR
BCPNN PRRs
FDA EBS WHO
(
UK Medicines Control Agency MCA) PRR
(%)
chi- PRR
association squared
UK yellow card system
/ / PRR

PRRs
MCA
Important New Strong) SNIP EBS BCPNN PRRS
(Preventable

IVIG

BCPNN

WHO

BCPNN

WHO

BCPNN

()

PRRs

BCPNN EBS

NSAIDs

(RORs PRRs)

BCPNN IC

()

% ,	% ,	PRR ≥ 2 , $\chi^2 \geq 4$	\geq
% ,	% ,	ROR, CI>1	
% ,	% ,	PRR, CI>1	
% ,	% ,	IC, IC-2SD>0	
% ,	% ,	PRR ≥ 2 , $\chi^2 \geq 4$	\geq
% ,	% ,	ROR, CI>1	
% ,	% ,	PRR, CI>1	
% ,	% ,	IC, IC-2SD>0	
% ,	% ,	PRR ≥ 2 , $\chi^2 \geq 4$	\geq
% ,	% ,	ROR, CI>1	
% ,	% ,	PRR, CI>1	
% ,	% ,	IC, IC-2SD>0	

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