

shalviri\_g@yahoo.com

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Bayesian Confidence Propagation Neural Network (BCPNN) :

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

≥ ≥ , ≥

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 &gt; 0

PRR

PRR ≥

(

Chi-squared

PRR % (

.( )

PRR  
≥ ≥ , ≥

cut-off

PRR ≥ 2,  $\chi^2 \geq 4$  :

≥

≥ ≥

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

( )



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

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