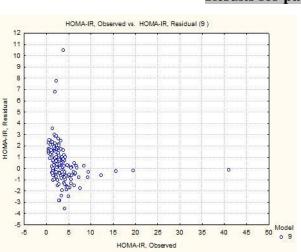


## ES Complex clinical investigation: Insulin resistance Screening Test (as reference HOMA-IR > 4.69) : Correlation/ Specificity and Sensitivity

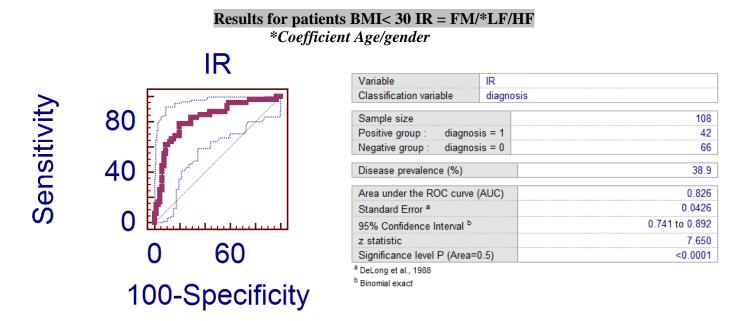
Chaim E. A and Gobato R.C. New Approach from physiological data algorithms for pre diabetes and diabetes screening in an obese patient's population to use on a larger scale. Unicamp University 2011.



## **Results for patients BMI > = 30 Neural Network**

	Regression ( HOMA-IR.9
Data Mean	5.370401
Data S.D.	5.663513
Error Mean	0.022437
Error S.D.	1.529719
Abs E. Mean	1.035220
S.D. Ratio	0.270101
Correlation	0.963160

The correlation between HS-IR (HS-Insulin Resistance) and HOMA-IR (HOMA-Insulin Resistance) was r=0.96 (p < 0.0001).



Sensitivity 78.57 % Specificity 80.3 % Cutoff > 2.9