PREDICTION BIOSCIENCES

www.predict.net

BioTuesday 2010

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Prediction BioSciences

- Founded in 2009
- ‘theranostics’- drug/diagnostic combinations
- Oncology and Neuro/Cardiovascular indications
- Using molecular markers to determine progression or safety/efficacy
- Novel approach
  - Advanced mathematical (informatic) methods
    - Statistical pattern recognition
    - Intelligently combine multiple markers/features into accurate predictive algorithms

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Stroke Theranostic

RapidResponse c-Fn™
Enhanced thrombolytic

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Hemorrhagic Transformation

- Occurs in 30-50% of all thrombolytic-treated patients

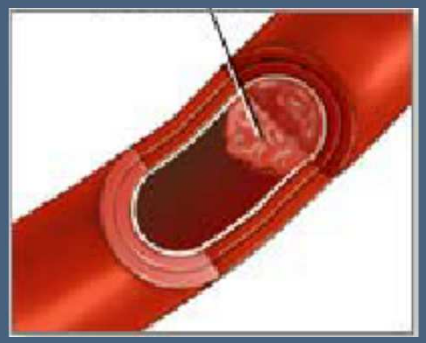
Severity	Mortality/Severe disability rate	% of treated patients
HI-1	<10%	10-15
HI-2	10-20%	5-15
PH-1	40-50%	3-10
PH-2	60-75%	6-11

RapidResponse c-Fn™

Cellular Fibronectin (c-Fn)

- Adhesive dimeric glycoprotein
- Fibronectin family
- Usually confined to vascular endothelium

No Vascular Damage
Low plasma c-Fn level



Vascular Damage
Increased plasma c-Fn level

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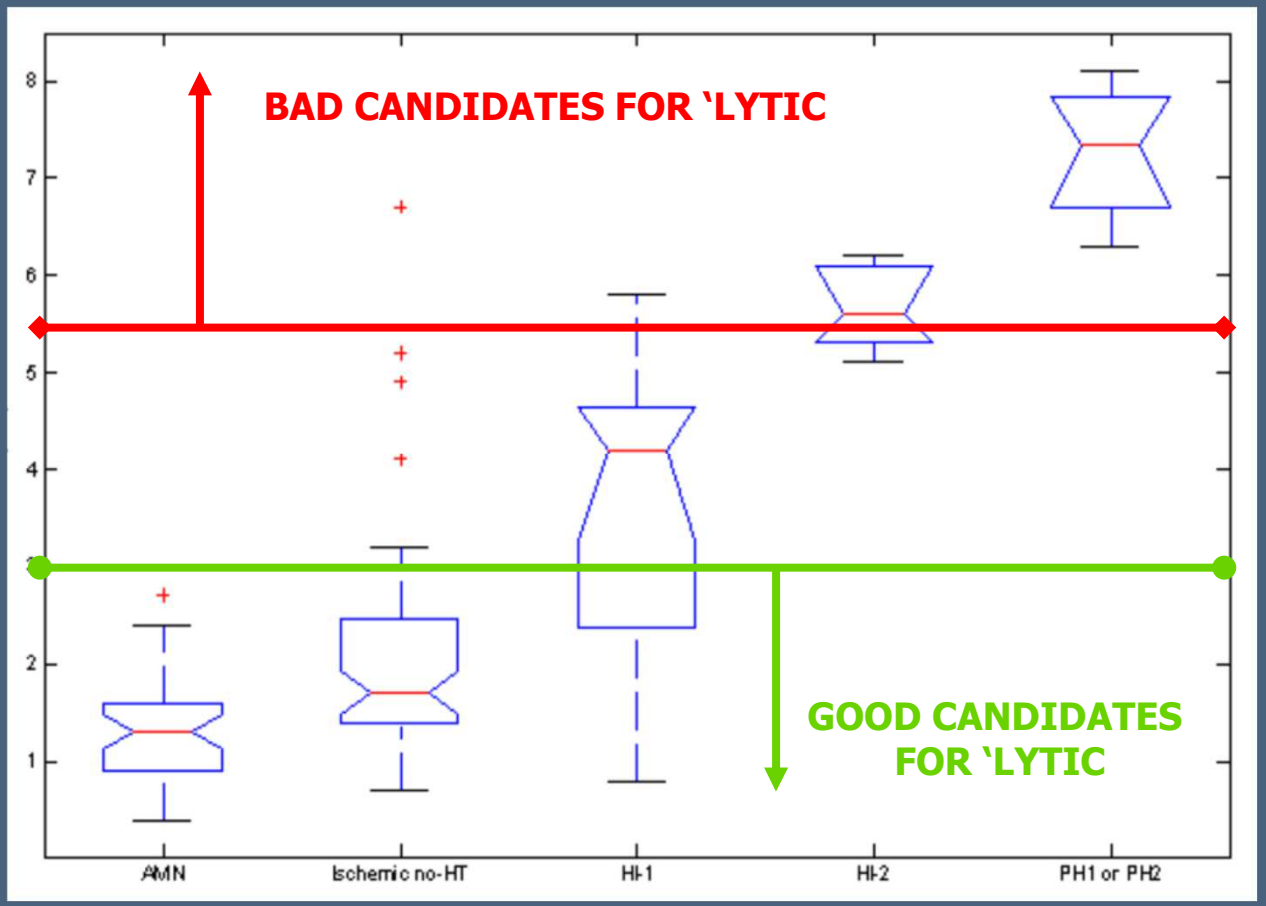
c-Fn Single Marker Test

Plasma c-Fn Levels

µg/ml



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Insight™ Dx BREAST CANCER PROFILE

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Insight™ Dx Breast Cancer Profile: parameters and algorithm

- Molecular markers (8 selected from >60 studied)
  - IHC
    - ER
    - PGR
    - ERBB2/HER2
    - BCL2
    - CDKN1B/p27/Kip1
    - EGFR
    - TP53
  - ISH
    - MYC
- Clinicopathologic data
  - tumor grade
  - tumor size
  - lymph node status (pN)
- Algorithm
  - Personalized risk of recurrence score (0 to 10+)
    - Risk category (e.g., low vs. high)
    - Likelihood of future event (e.g., distant metastasis, disease-related death, and/or overall survival)

Sample Test Report

CLARIENT

Todd Barry, M.D., Ph.D. / Kenneth J. Bloom, M.D.
Medical Directors
CLIA I.D. #05D1021650

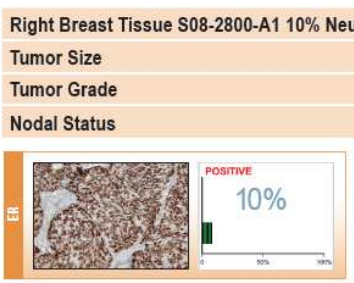
Patient Name:	Jane Doe	**Client Name:**	Memorial Hospital
Date of Birth:	1-15-1970	**Client ID#:**	963258741
Gender:	Female	**Ordering Physician:**	John N. Doe, M.D.
Medical Record#:	123456789	**Treating Physician:**	John M. Doe , M.D.
Master Accession:	987654321	**Date/Time Collected:**	1-26-2009 12:00 pm
Case No:	147852369	Date/Time Received:	1-27-2009 5:00 pm

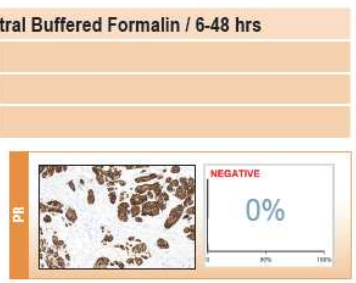
Clarient Insight® Dx Breast Cancer Profile

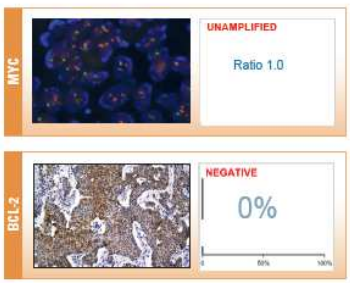
High Risk

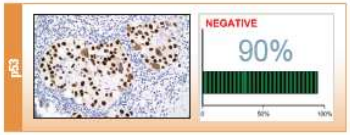
Risk Score Scale

Right Breast Tissue S08-2800-A1 10% Neutral Buffered Formalin / 6-48 hrs
Tumor Size
Tumor Grade
Nodal Status









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