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To:

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Theranos Disease and Therapy Monitoring System.ppt Subject:

Theranos Disease and Therapy Monitoring System

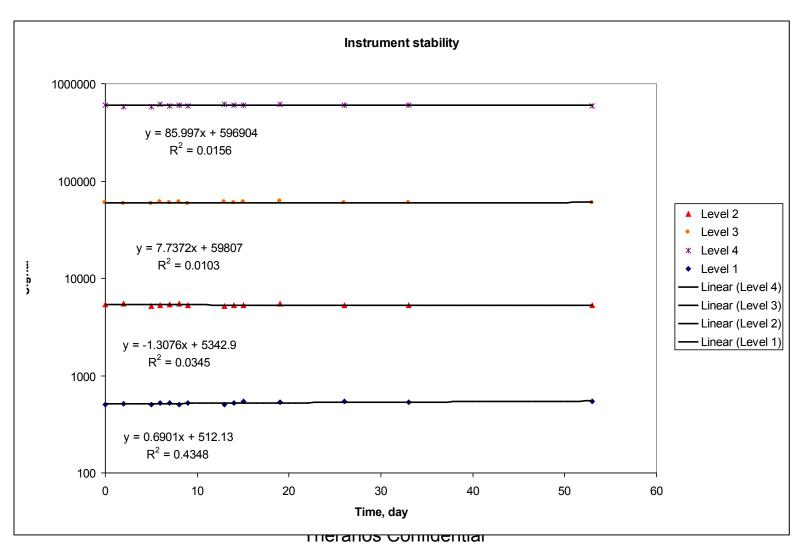
Performance Summary
Ian Gibbons
June 2008

System Design

- Multiplexed measurement of biomarkers
 - Max 6 per cartridge
- Serial measurements to detect trends
- Blood, plasma or serum samples
- Small sample size (20 uL)
- Mix and match selection of analytes
- Wide measurement range
 - pg/mL mg/mL (1 billion fold)
- High sensitivity
 - 0.2 pg/mL (2 parts per 10-billion)
- On-board chemistry controls
- Factory calibration (no user calibration)
- · Wireless communication of results to appropriate user
- Proprietary algorithms to interpret time trend results

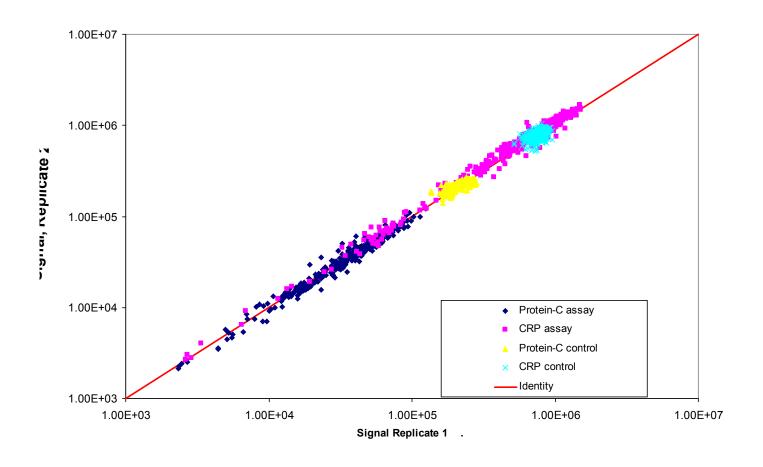
Instrument optics stability

Perfectly stable over two months



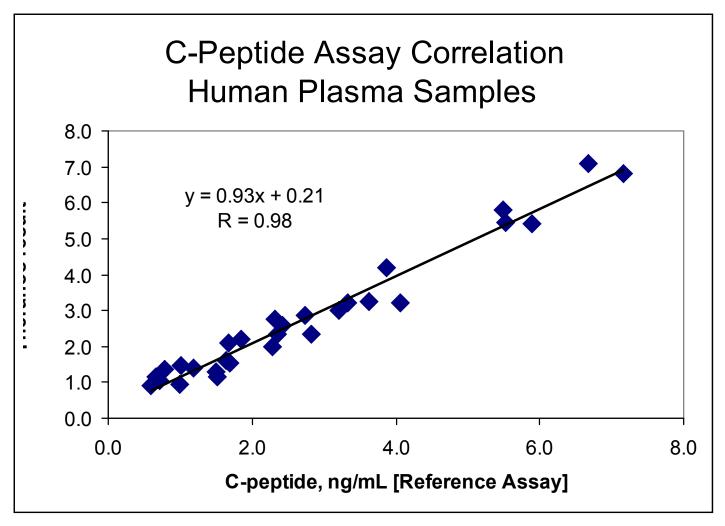
System is precise and stable

Replicate measurements within single cartridges for two assays and two controls agree for blood samples in clinical study (sepsis)



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Assay results correlate well with reference methods Drug Company Validation Study



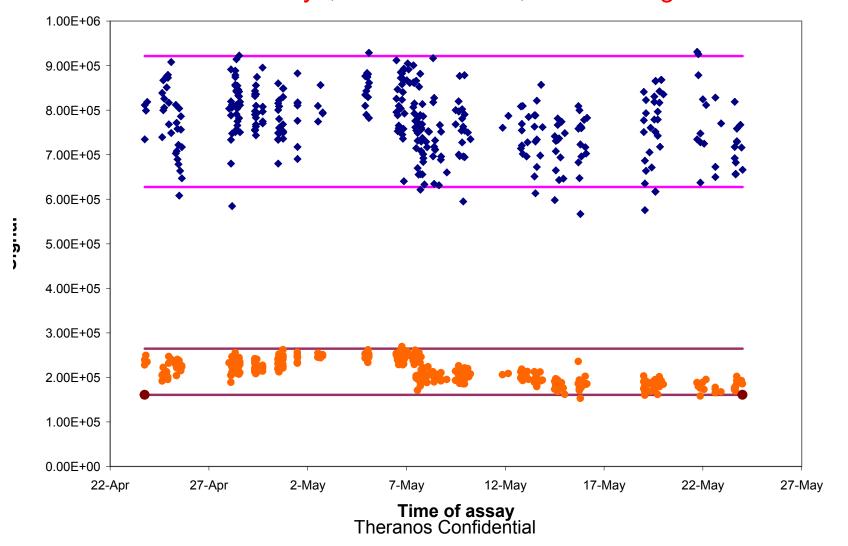
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Sensitivity matches or exceeds best available methods in real samples

- GLP-1: 0.17 pM (drug company study)
- IL-6: 0.4 pg/mL (in house study)

Controls verify system performance

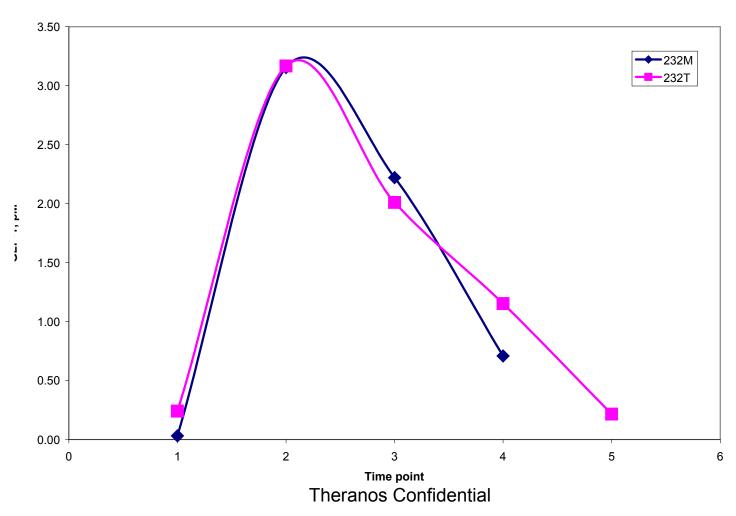
Clinical study over one month System calibration was stable Two assays, 20 instruments, 360 cartridges



GLP-1 release, pre-clinical drug company study

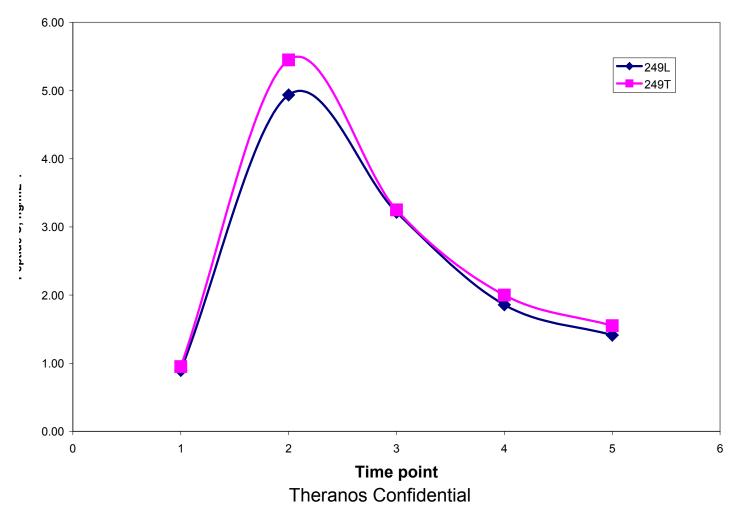
Theranos results compared with best available method: Human subjects: food challenge

Subject 232



C-Peptide release, pre-clinical drug company study Theranos results compared with best available method: Human subjects: food challenge

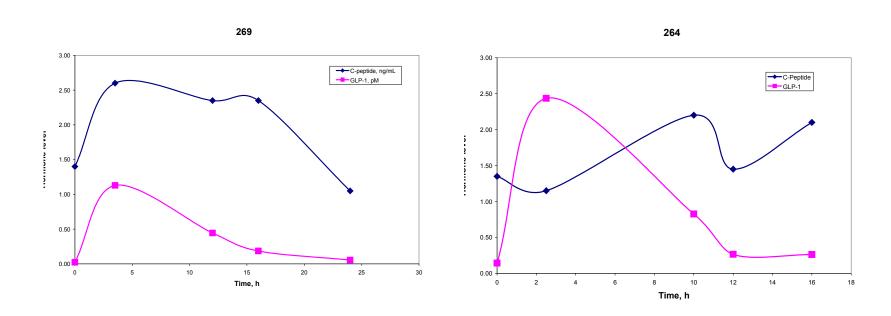




Using multiple markers to see differences between patients

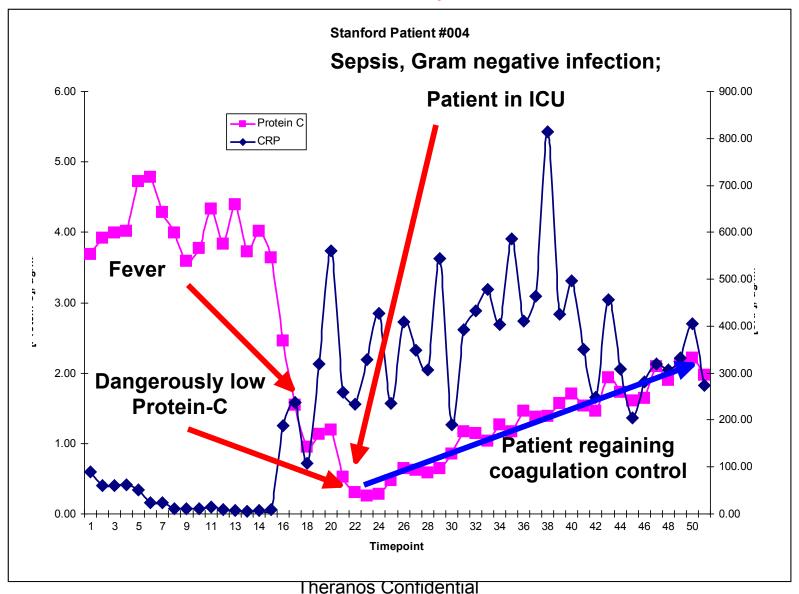
Theranos multiplexed measurements of GLP-1 and C-peptide in two patients

Drug company pre-clinical trial



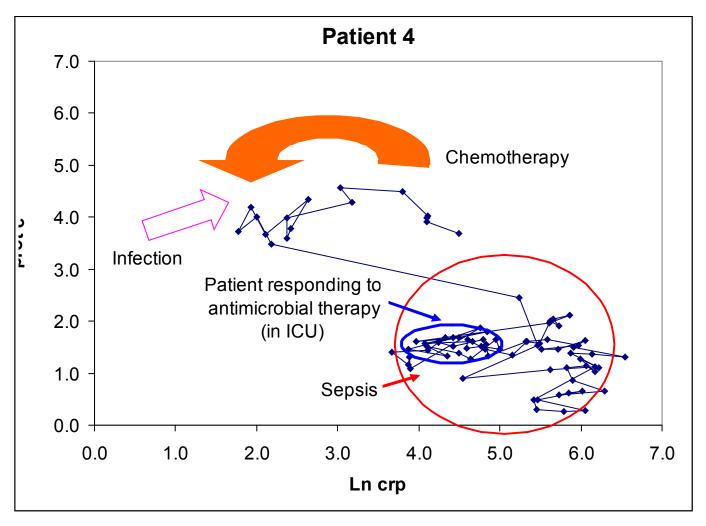
Monitoring therapy in real time

Stanford sepsis study: Blood samples



Multiple assays following disease and therapy Trajectory to sepsis

Data connected by time



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Conclusions

- Performance design goals have been demonstrated.
- The system is now in clinical evaluation at several sites.
- Results have been excellent.
- Scale-up, GMP documentation and 510k submissions are in hand.