TH SCAN

Health Monitoring System

1. What is Health Monitoring System about?

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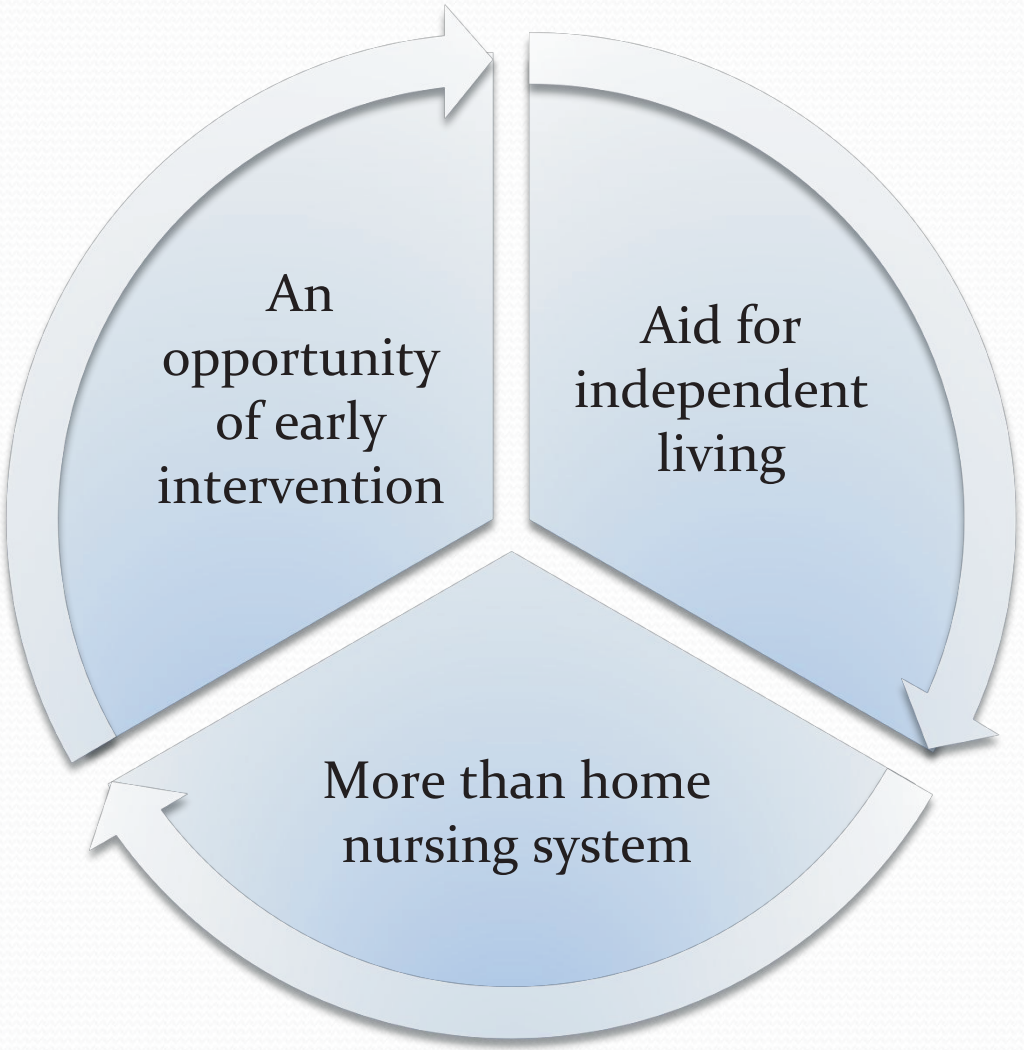

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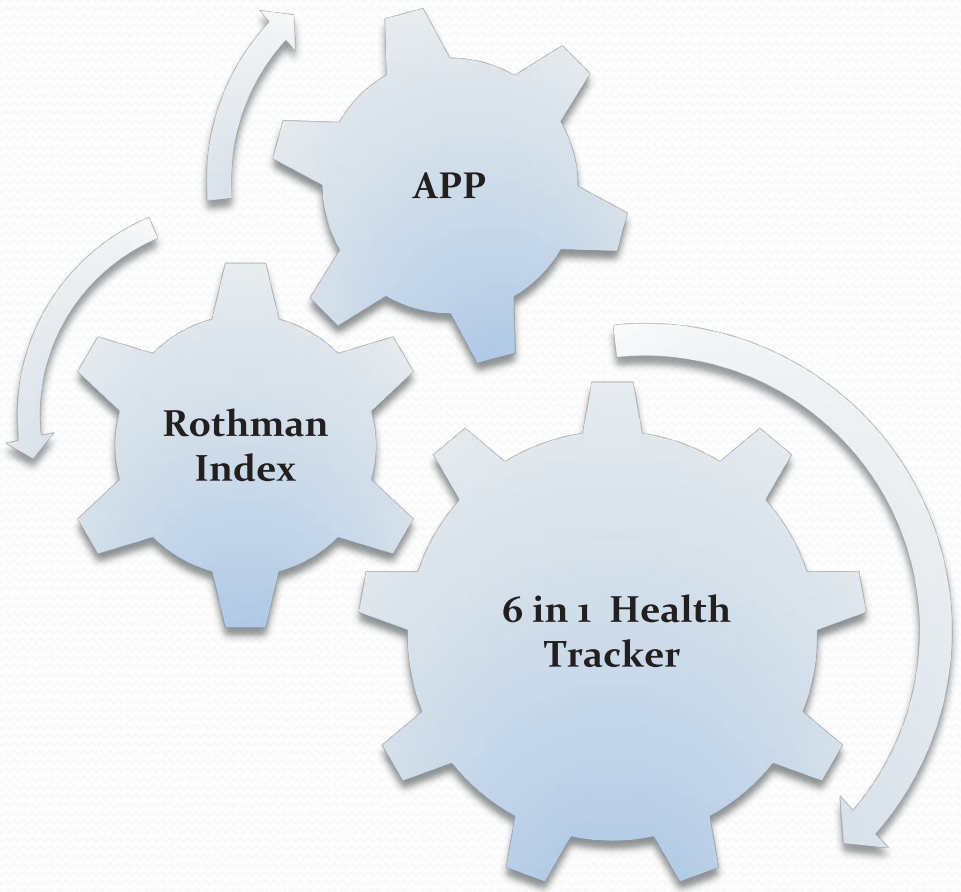

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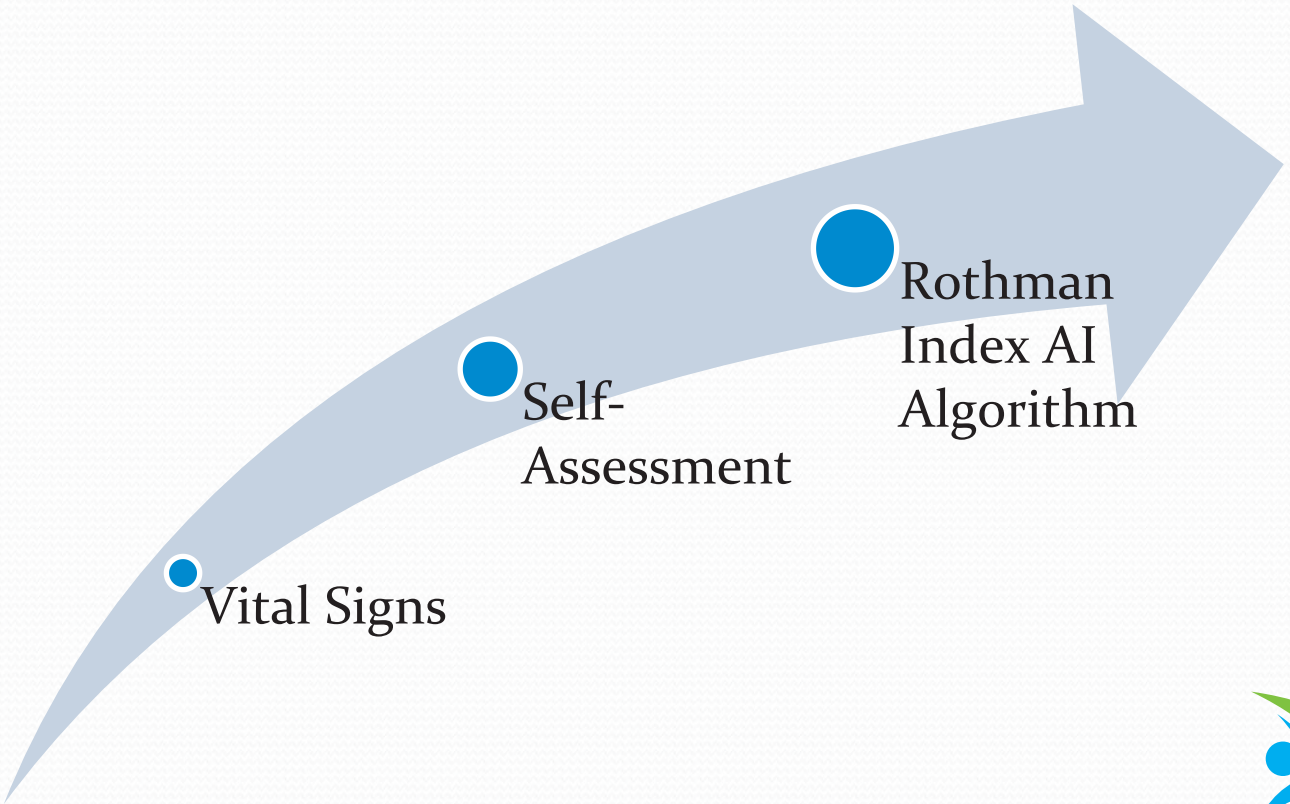

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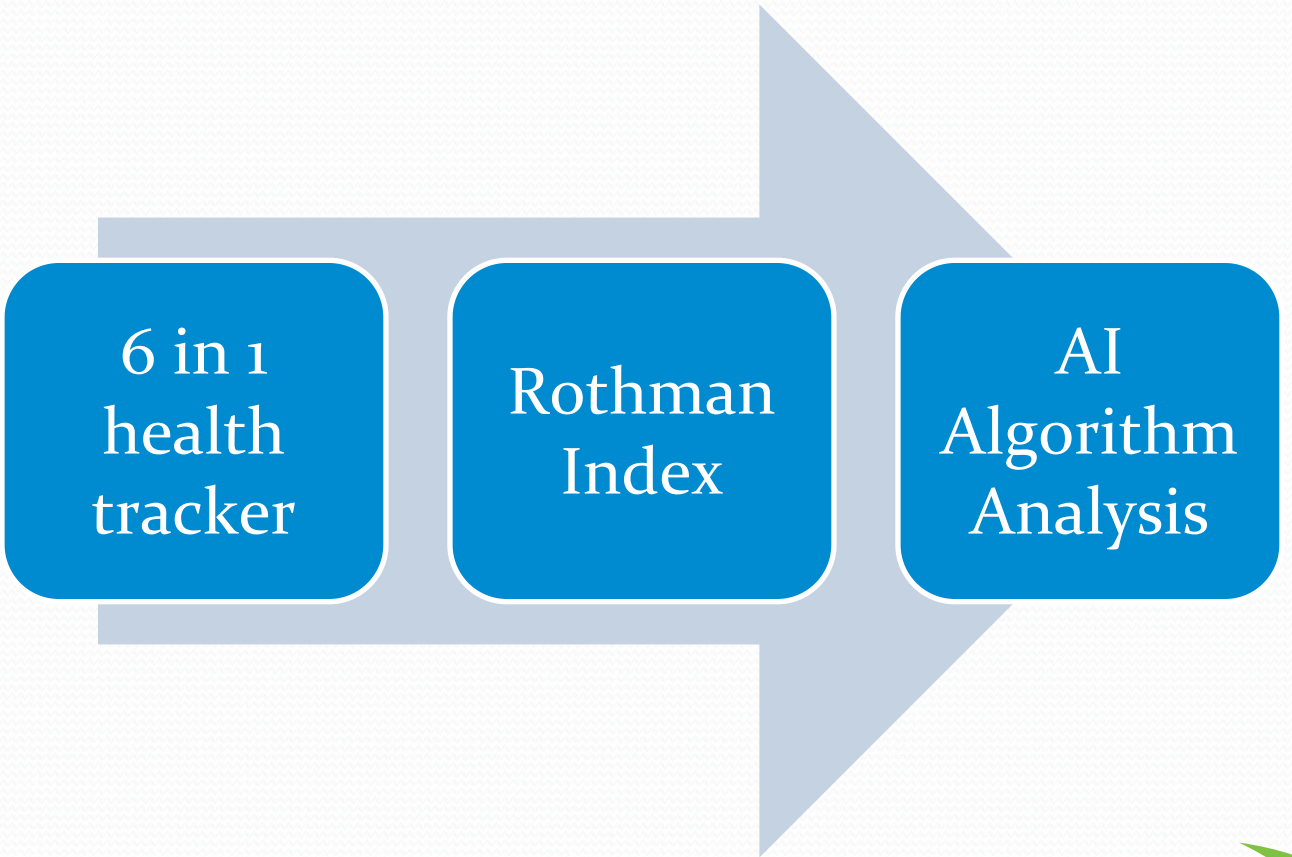

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2.1 Rothman Index

What is Rothman Index?

- The Rothman Index (RI) is a single number that is a measure of an individual's overall medical condition.
- It is based on a unique combination of vital signs, oximetry and either nursing assessments or a person's self assessments
- It is displayed in graphic form so that a trend is easily visible.

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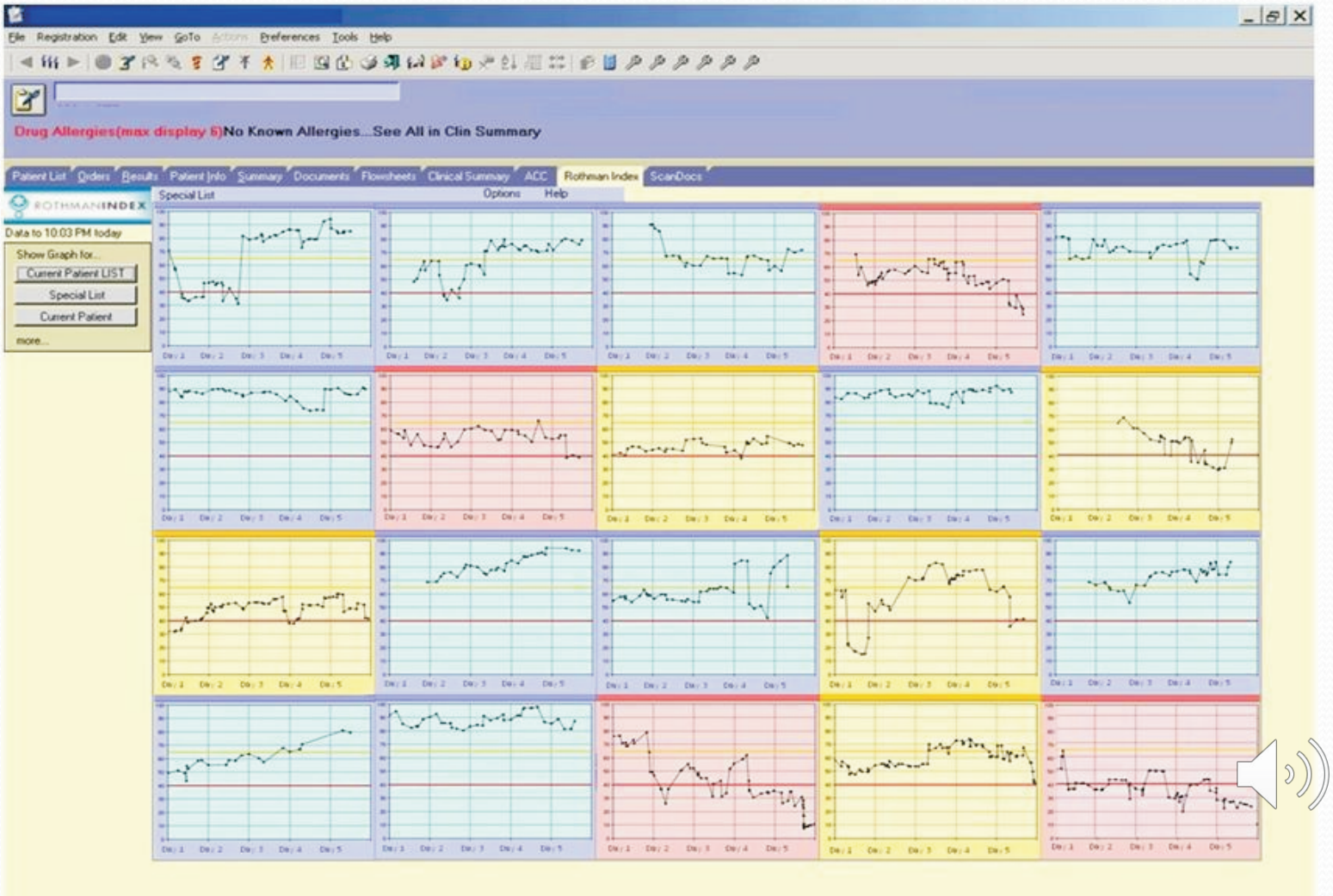
Rothman Index graphs on 20 patients seen in a ”Quilt”



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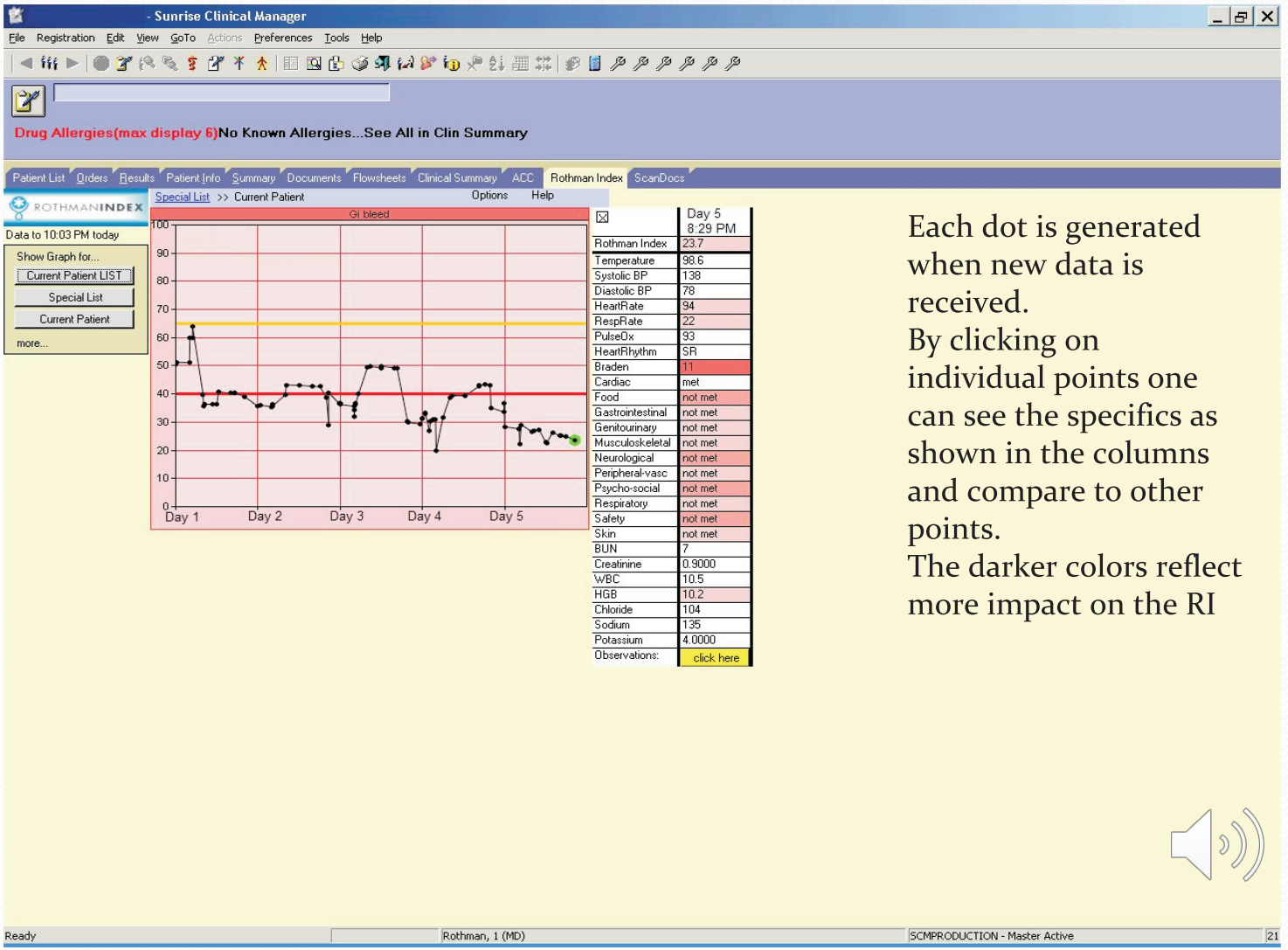
Rothman Index graph on a single patient



Each dot is generated when new data is received.
By clicking on individual points one can see the specifics as shown in the columns and compare to other points.
The darker colors reflect more impact on the RI

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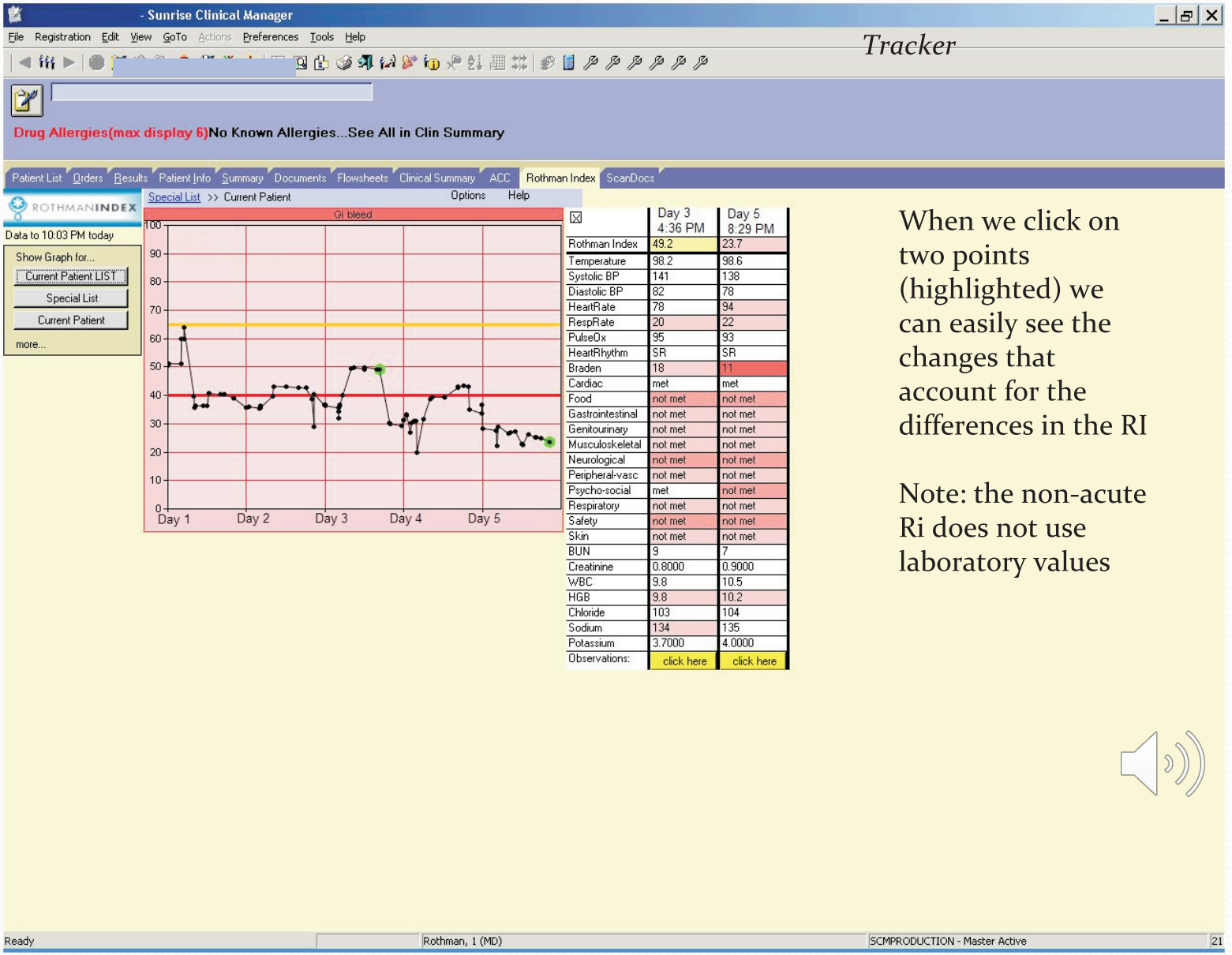
Two points on a single patient

Tracker



When we click on two points (highlighted) we can easily see the changes that account for the differences in the RI

Note: the non-acute Ri does not use laboratory values

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2.1 Rothman Index

What do the colors mean?

1. The overall color of the graphs are determined by the last RI value available.
2. If the last RI value is over 65 the graph is blue.
3. If the last RI value is between 40 and 65 the graph is yellow.
4. If the last RI value is below 40 the graph is red.

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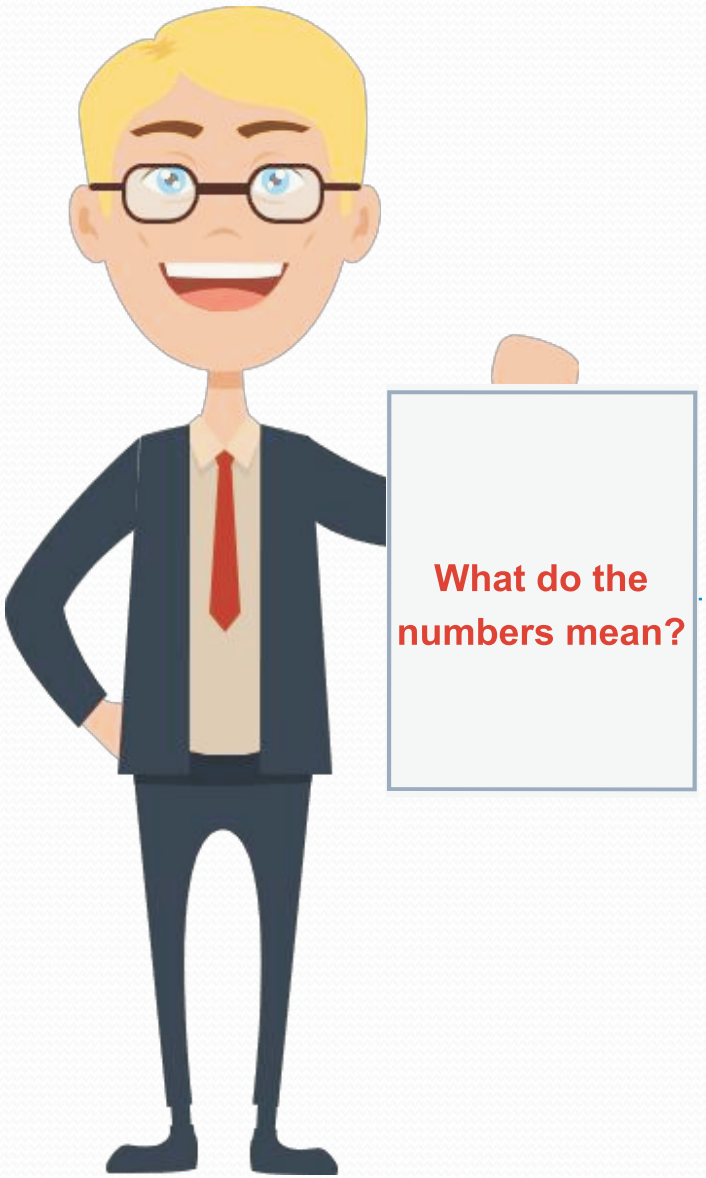
2.1 Rothman Index



1. These are only generalizations to give some relevance to the values we see.

2. A person who feels well (such as you or I) would have an RI of 100, providing our vital signs are normal.

3. A person with an RI of 65 is likely to need skilled level care.

4. A person with an RI of 40 would be sick enough to be in an ICU if hospitalized.

2.1 Rothman Index

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1. While the overall color of the graphs is important the most important feature is the TREND.
2. Is the individual's RI going up or down?
3. If a graph is blue but still shows a decline, that is important.
4. If the graph is red but getting higher that is also important.

It's really about the TREND

2.1 Rothman Index

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How does the RI use symptom assessments?

A. Symptom assessments are recorded as either met or not met.

B. If someone fails *any* part of a symptom assessment that is not met.

C. For instance if they have a cough, yellow sputum and shortness of breath this is not met.

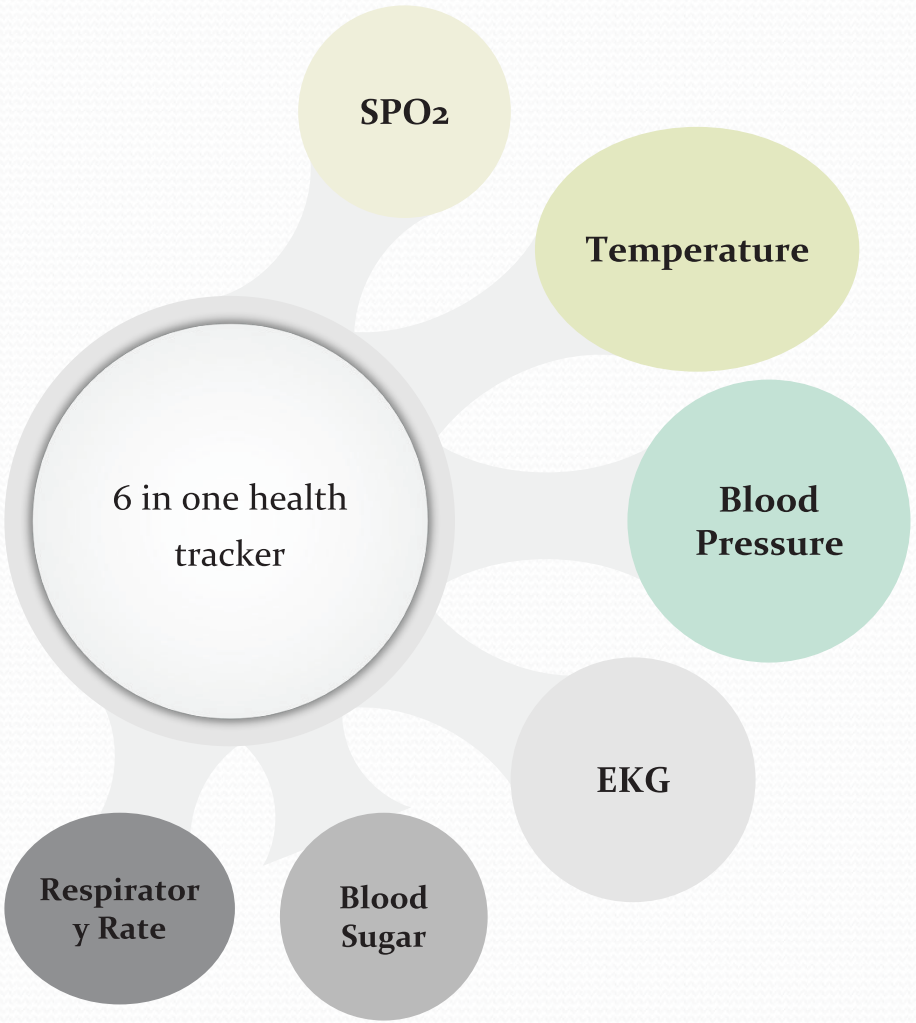
D. If a patient just has a cough that is still not met for the respiratory assessment.

2.2 *TH SCAN* Device

PRODUCT PRESENTATION

TH SCAN: this multi-functional health monitoring device, makes the tricorder in Star Trek come true. ***TH SCAN*** is configured with the blood pressure measurement module with a MITSUMI high accuracy pressure sensor. Not only will it monitor and record blood pressure data, but it will also record basic vital signs such as heart rate, ECG, blood oxygen and respiration. All this data reflects a person's specific state of health, so ***TH SCAN*** integrates a blood oxygen sensor, infrared body temperature sensor, blood glucose monitoring and test module, single lead ECG test module (supportive of multiple-lead test cable) into a compact monitor, which enables users to enjoy basic medical service even at home.

2.2 *TH SCAN* Device



Specification- *TH SCAN*

1.Environment temperature:5~40℃

2.Relative humidity:15%~93%

3.Barometric pressure:70kPa~106kPa

4.Supply voltage:50V±0.25V

5.Battery capacity:400mAH

6.Communication protocol: Bluetooth 4.0;Bluetooth working frequency:2.4000~2.4835GHz

2.3Visualizing data can enable early intervention

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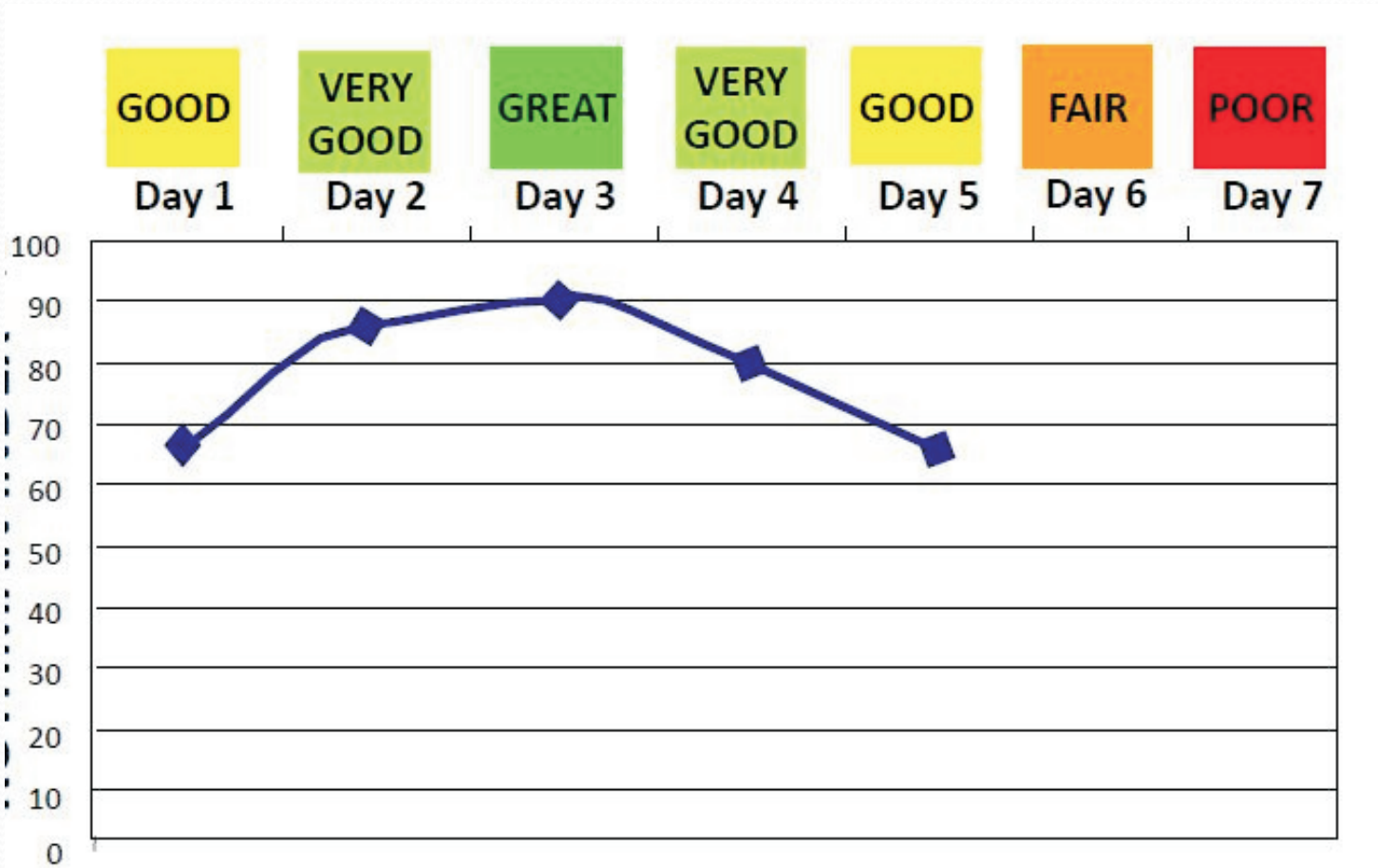

Summary

3.1 What will the *TH SCAN* do in the non-acute world?

1. If a patient just has a cough that is still not met for the respiratory assessment.
2. Improves telemedicine
3. Engages the patient and family
4. Ensures continuity of care across levels of care
5. Builds relationships with providers

3.2 What will the *TH SCAN* not do?

1

It is NOT a substitute for judgment and experience.

2

It is NOT affected by diagnosis and does not make a diagnosis.

3

It does not suggest treatments

3.3Who uses the *TH SCAN*?

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1. It is used by caregivers at all levels to see changes in the medical condition of individuals.

2. It was developed for use in hospitals and has been expanded for use in nursing homes, assisted living facilities, independent living facilities and at home by either direct contact or by telemedicine.

3. Physicians may use it to monitor patients in any location through EMRS or Smartphones.

4. It allows monitoring of Telemedicine patients between visits.

3.4 How is the *TH SCAN* created?

1

It is calculated automatically from the electronic medical record (EMR) in hospitals or other facilities if one is present as in a Skilled Nursing Facility.

2

If there is no EMR, it is calculated from data entered on an iPad, kiosk or computer.

3

In independent living situations it is computed from data obtained by sensor devices such as *TH SCAN* /app.

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Thank you!