



Health Management Software

**Product Spotlight:
Remote Patient Monitoring ("RPM") for
COVID-19**

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1. COVID-19 Message

Hi-

1bios is a software company that provides connected care tools for care providers and payers. We never imagined a scenario where our product could potentially help combat a global pandemic.

However, we now know from our current customers and medical experts that our RPM software has the potential to help with a very specific piece of the COVID-19 challenge.

Which is, to enable you to remotely monitor non-critically ill but at-risk COVID-19 patients at their residence -- keeping your physical facilities and facility staff free to address patients most critically in need.

Here is more detail:

- 1bios has already built the tools and capabilities to support Remote Patient Monitoring. We typically provide solutions that support virtual care for chronic conditions like hypertension, diabetes, obesity, and more.
- Our COVID-19 solution configures these capabilities to enable remote monitoring for SpO2 and basal body temperature. This helps you monitor patients remotely/at home for respiratory function, and fever -- using the patient smartphone + inexpensive monitoring devices.
- The data is analyzed in the 1bios system and a set of alerting and notification algorithms are applied to the patient data such that the right resources at your organization can be notified at the right time via text, e-mail, and or voice call. A staff facing portal and "Alert Queue" are available.
- The use case/benefit is best stated by Providence Health System in Seattle as follows (<https://www.healthleadersmedia.com/clinical-care/how-health-system-treated-us-coronavirus-patient-1-has-responded>) :

"Patients who are identified as likely positive for COVID-19 in an emergency department but are not admitted are being sent home with a thermometer and pulse oximeter to monitor their symptoms at home under the supervision of the health system's telehealth team. Patients can be OK for a while, then decompensate rapidly. So, having this capacity to monitor at-risk patients at home has made a huge difference and made our clinicians much more comfortable to leave patients at home rather than admitting them for observation in our acute care facilities."

We are grateful to our customers and all those working on the front lines and behind the scenes.

If you are interested in learning more please view the following slides. You can also contact us immediately at covid19@1bios.co or 800-233-5610.

Sincerely,

-The Team at 1bios

2. Solution Components

1bios digital disease management tools

+

Smartphone and Monitoring Devices*

+

Care professionals (care/case managers,
nurses, virtual health team)**

* Smartphone typically provided by patient, monitoring devices typically provided "on loan" by your organization while patient is enrolled in solution program

** Typically care pro's from your organization. 1bios can also help arrange staff.

3. COVID-19 Solution Summary*

- Mobile-first consumer facing portal/app
- SpO2 monitor and/or thermometer
- Care Pro alerts and notifications
- Interactive consumer facing care tasks
- HIPAA secure messaging + email and text
- Care Pro custom dashboards/registries
- Automated virtual care time tracking

* The COVID-19 configuration can be customized -- removing or adding capabilities.

4.1 COVID-19 Detail

CONSUMER APP (PATIENT-FACING)

The mobile-first web portal/mobile app is accessible to invited consumers from any web browser (computer, smartphone, tablet).

It can also be downloaded to iPhones and Android phones.

It can be provided under the 1bios brand, or "white-labeled" to be provided under your chosen brand.

Consumers can be on-boarded in person (e.g. on ER discharge) or remotely (e.g. via e-mail invitation, or by phone).

"Smart" SpO2 and/or thermometers are connected to the Consumer App.

SpO2 and/or body temp readings are automatically uploaded via the Consumer App.

SpO2 and/or body temp measures can also be manually entered by patient or at home care giver into Consumer App.

4.2 COVID-19 Detail

INTEGRATED MEDICAL DEVICES

Consumers/Patients can be provided with "smart" or "standard" SpO2 monitors and/or thermometers from multiple manufacturers.

Connected devices automatically upload data via the iPhone/iPad or Android device Consumer App.

Consumers/Patients can also use their own devices if your organization is pursuing a "Bring Your Own Devices" approach.

Note both "connected" devices "non-connected" devices are supported (measurements must be manually entered by consumer/patient for non-connected devices).

Device costs: SpO2 monitors range from \$10 - \$70, thermometers from \$5 - \$40.

4.3 COVID-19 Detail

CONSUMER "CARE TASKS" / INTERACTIVE CARE PLANS

Members can be provided with interactive care plan "to do" lists of daily, weekly, monthly, or annual checklists. We call these "care tasks".

Consumers can complete their care tasks automatically via connected device data, or manually

Your team can be alerted based on consumer adherence/progress to assigned care tasks.

1bios provides care plans and tasks as templates your organization can edit. Your team can build care plans (and associated tasks) from scratch.

Care tasks are an optional component of your solution.

4.4 COVID-19 Detail

CONSUMER "NUDGES", CARE PRO SMART ALERTS AND ALERT NOTIFICATIONS

Consumers can get automated email and text message "nudges" to encourage ongoing adherence to care tasks.

Care pro's can automatically get Alerts created and manage a queue based on patient/consumer care task compliance, any connected device measurement being in/out of range, any trend of measures of data being in/out of range over a period of time.

Care pro's can get immediate Alert Notifications by email, text or voice call when an alert is created.

Current default (all can be customized) COVID-19 alert rules create an Alert (and optionally send a Notification to Care Pro) when a consumer (can be one/some/or all consumers), has:

- SpO2 reading <95%
- SpO2 reading increased or decreased 3% or more in last 2 days
- No SpO2 reading in last 24, 48, 72 hours
- Body temp reading $\geq 100, 101, 102, 103, 104, 105$
- No body temp reading in last 24, 48, 72 hours
- No device data or self reported activity of any kind in last 24, 48, 72 hours

4.5 COVID-19 Detail

CARE PRO DASHBOARDS

Consumer/Patient Dashboard: Care Pro manages a customizable and sortable dashboard of consumers based on saved filters and selected data to display (e.g. SpO2)

Single Consumer/Patient Dashboard: care pro manages a dashboard of the consumer's care plan, connected device measures (including graphs and trends), care timer activity, messaging, alerts, trended data, and more

Alerts Dashboard: care pro manages an "inbox" dashboard of alerts created based on customer data (from devices, care task compliance, other), and/or reminders created by themselves or other care pro

Messages Dashboard: care pro manages an "inbox" queue of HIPAA secure messages to/from consumers

4.6 COVID-19 Detail

MESSAGING, OPTION FOR HEALTH LIBRARY

Care professionals can send/receive HIPAA secure messages, and/or send email and/or text message

Any type of message can be sent to one consumer/patient -- or to any custom group -- based on any combination of data properties

Add-on option for messages to include content from the Healthwise integrated health library of text and video educational content including relevant COVID-19 material

Care pro's and consumer/patients can utilize a highly configurable set of alerts, notifications and badges to ensure no message can be accidentally missed

4.7 COVID-19 Detail

AUTOMATED VIRTUAL CARE PRO TIMERS

Care Pro time spent on virtual/telehealth methods of care delivery to consumers/patients can be automatically tracked and utilized for example to support CMS billing for CCM (Chronic Care Management CPT Codes), TCM (Transitional Care Management CPT Codes), and RPM (Remote Patient Monitoring CPT Codes).

Additional use cases include work force management, and fee based care program billing.

Real-time reports indicate billable events achieved and time to next billable event.

5. COVID-19 Benefit Summary

- Monitor at-risk patient at their place of residence without having to admit for observation
- Small number of care professionals can remotely monitor large number patients and admit as necessary
- Enable social distancing for staff and patients prior to a need for admission
- Potential tool to better utilize scarce facilities and staff facing unprecedented pandemic
- Pricing note: 1bios is providing this solution at no charge during the National State of Emergency.

To Learn More:

Contact for virtual product demo,
Q and A, and further detail

contact: covid19@1bios.co

1bios EDGE connected device system

1bios EDGE integrates data from 200+ devices -- from consumer wearables to FDA approved remote patient monitoring (RPM) devices reimbursable in 2019 per CMS

Sample data monitoring : steps, active minutes, sleep, blood pressure, heart rate, weight, oxygen saturation (SpO2), glucose (single measures + continuous "CGM")

Sample devices : wearables, smartwatches, iPhones and Android smartphones, blood pressure cuffs, glucometers (single measure and continuous), scales

Sample brands / device families : Fitbit, Apple (watch and iPhone), Withings/Nokia, Android smartphones, Misfit, Garmin, iHealth, Dexcom

Data use cases : remote patient monitoring, chronic care / transition care / disease mgmt, health coaching, wellness health engagement

