



HEARTS

IN THE AMERICAS



PAHO



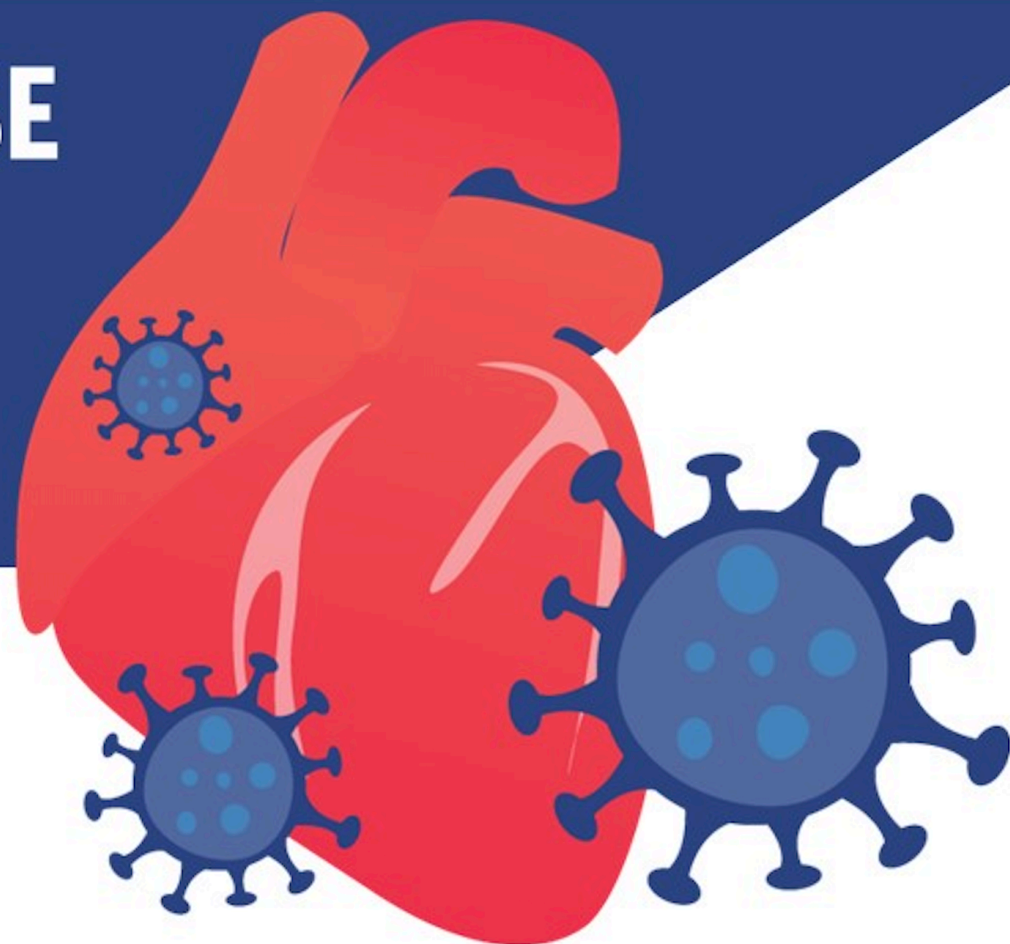
WEBINAR



HEARTS
IN THE AMERICAS

CARDIOVASCULAR DISEASE AND COVID-19

Inter-relationship and opportunities for
change of two global crises



Monday

16 November 2020

10:30 am - 12:30 pm (EST)

www.paho.org/en/hearts-americas

PAHO



Pan American
Health
Organization



World Health
Organization
REGIONAL OFFICE FOR THE
Americas

Innovations in Cardiovascular Disease and Hypertension Care: Lessons learned from COVID-19

Dr. Kenneth Connell DM PhD FACP FRCP FACP
Deputy Dean Internationalisation & Recruitment
Faculty of Medical Sciences, Cave Hill Campus, The UWI



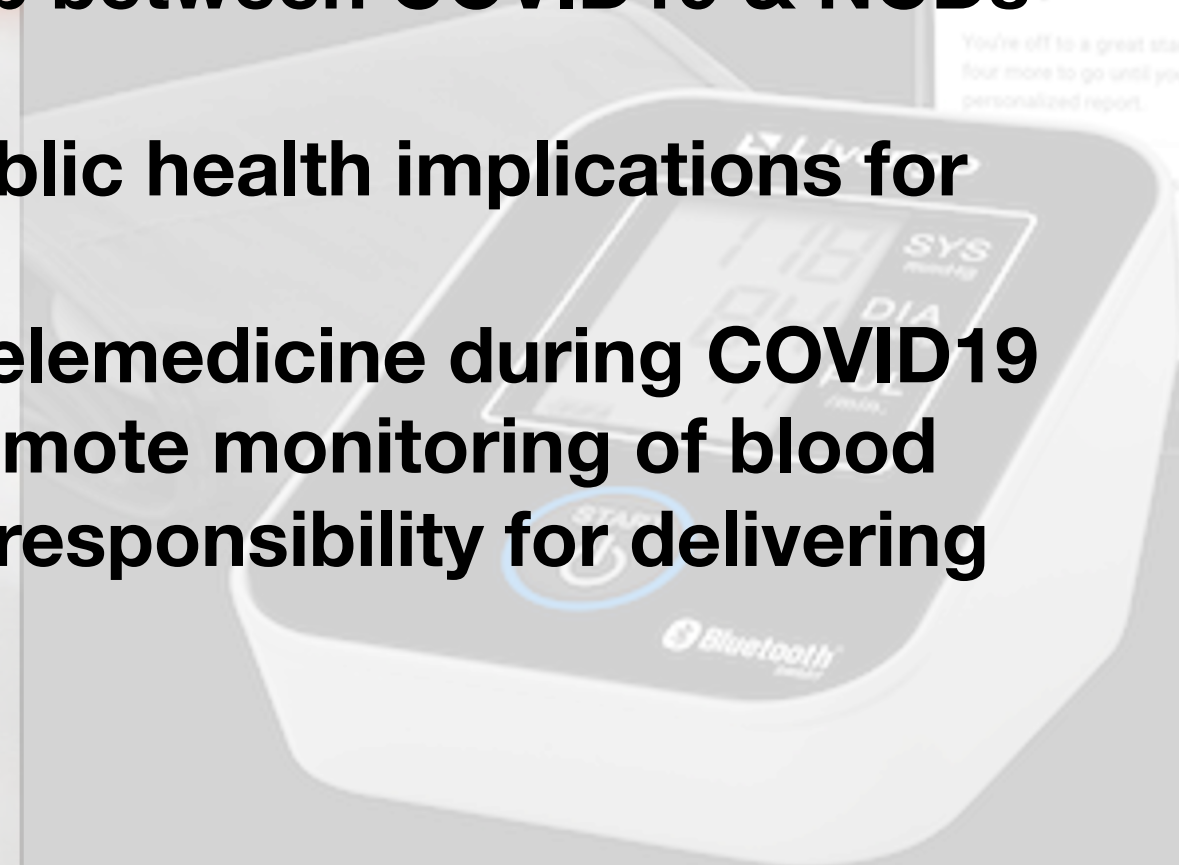
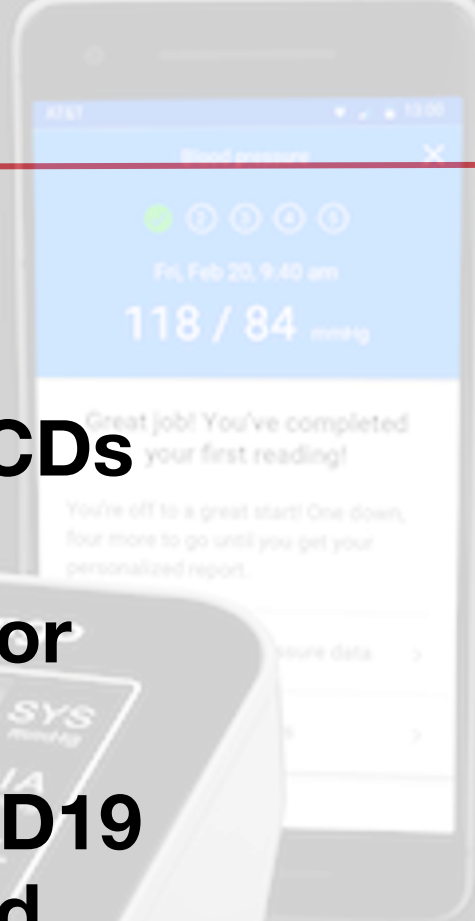
HEARTS

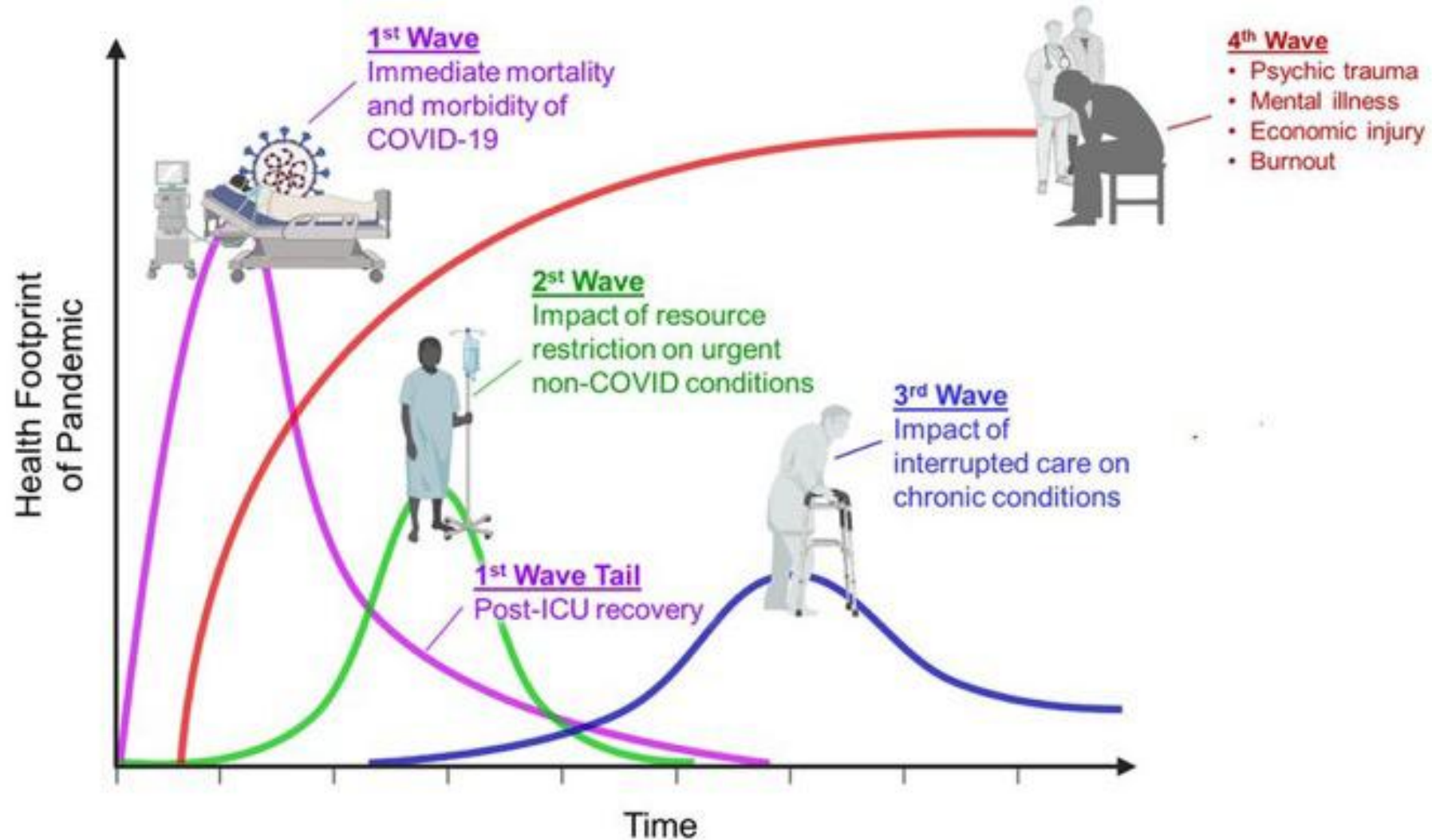
Learning Outcomes:

IN THE AMERICAS

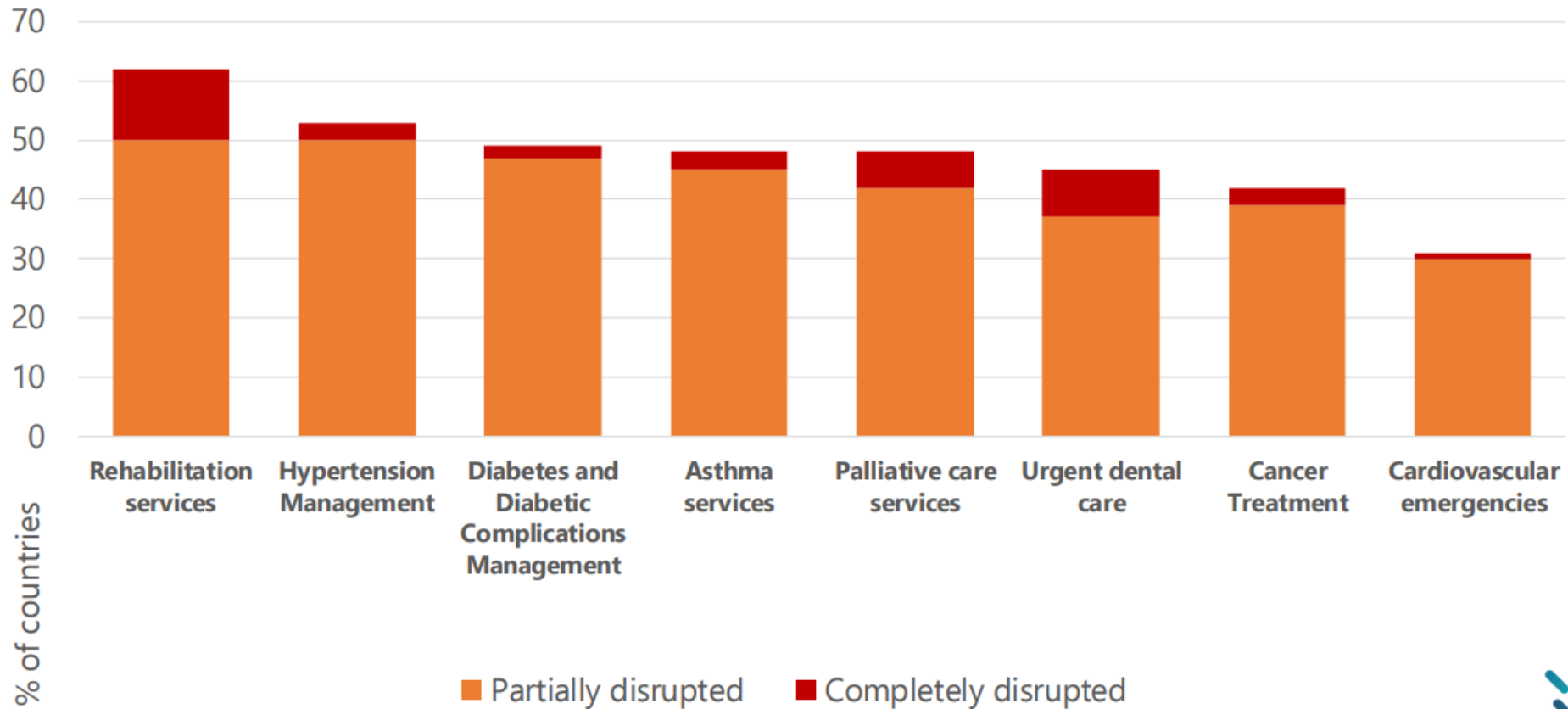


- 1. Identify the relationship between COVID19 & NCDs
- Hypertension**
- 2. Identify to potential public health implications for care**
- 3. Design a strategy for telemedicine during COVID19**
- 4. Formulate a plan for remote monitoring of blood**
- 5. Appreciate the ethical responsibility for delivering safe care**

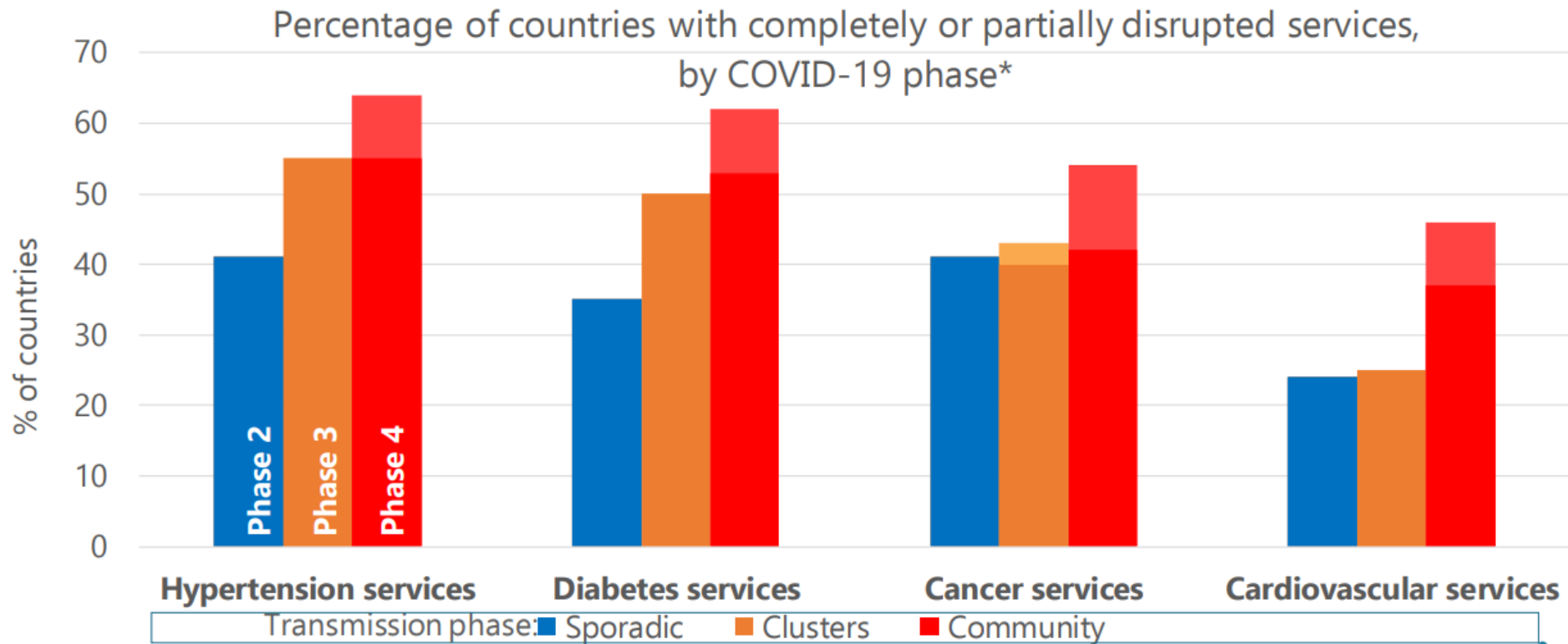




120 countries reported that NCD services are disrupted



The more severe the transmission phase of the COVID-19 pandemic, the more NCDs services are disrupted

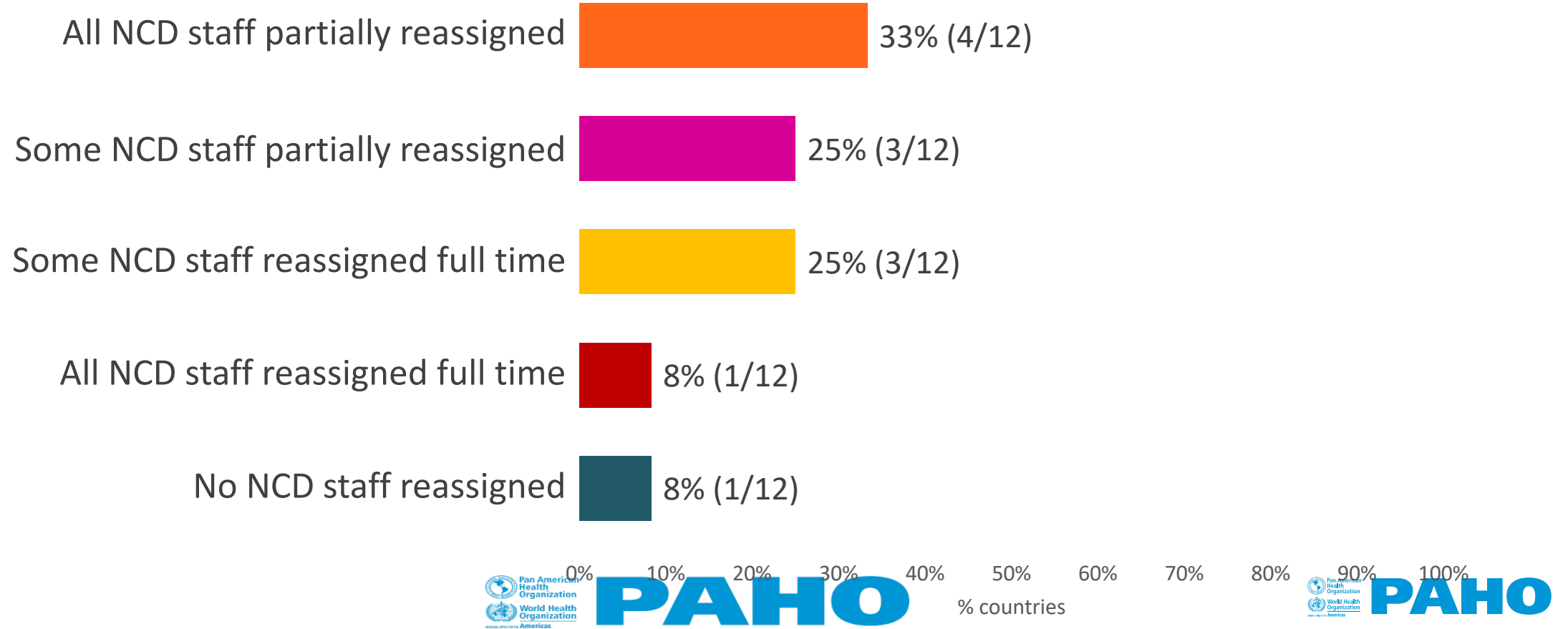


*Countries reporting unknown levels of disruption shown in lighter shade



NCD Staff Reassigned to COVID-19

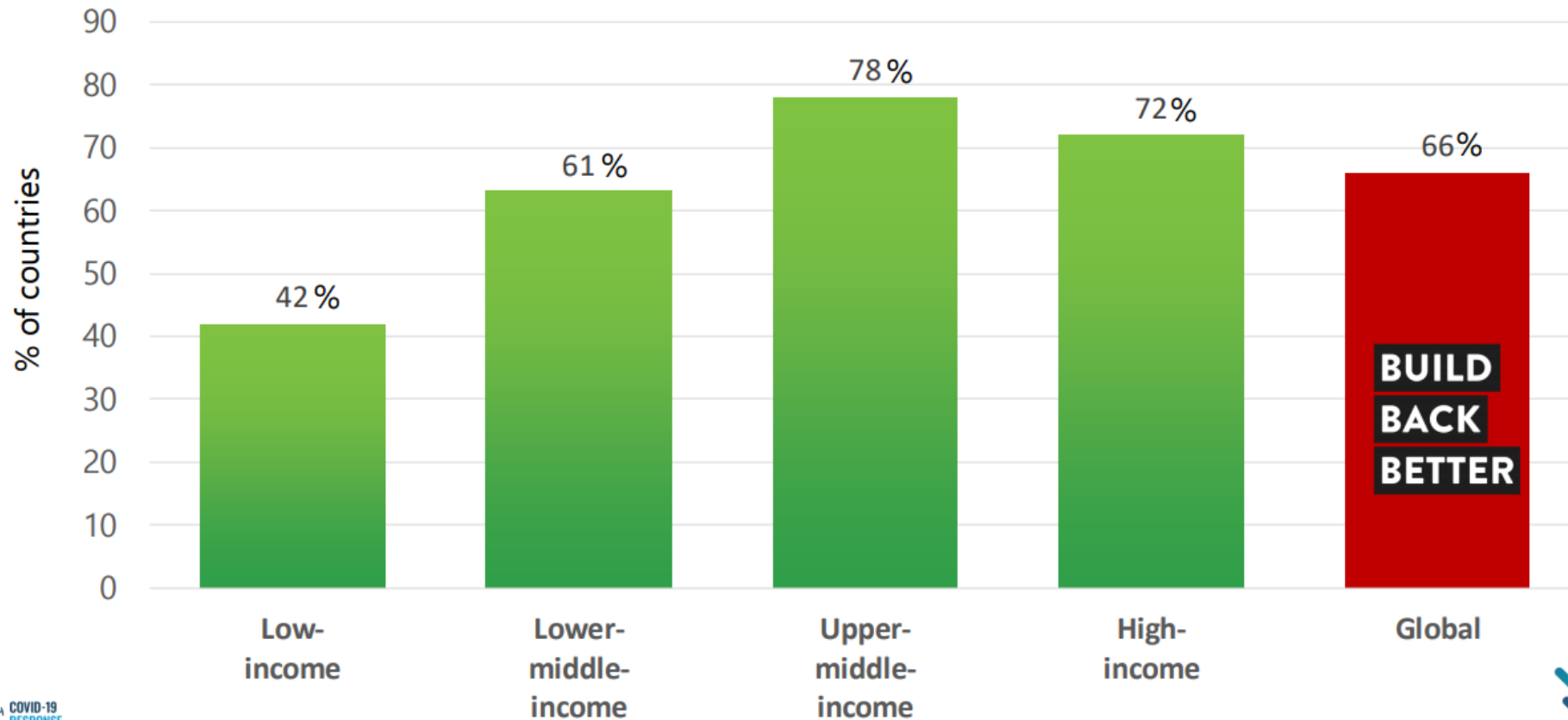
Percentage of Caribbean countries where the NCD staff were reassigned to COVID-19 response



66% of countries have included the continuity of NCD services in national COVID-19 plans



World Health Organization



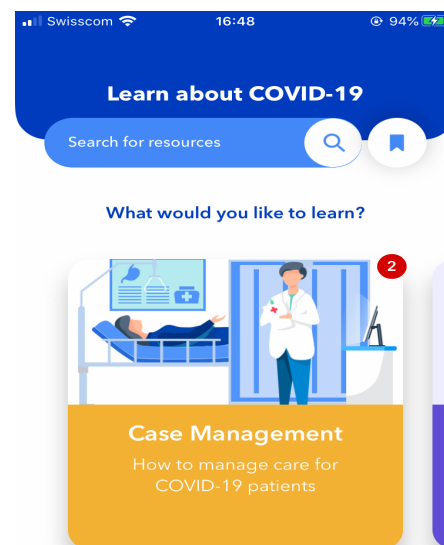
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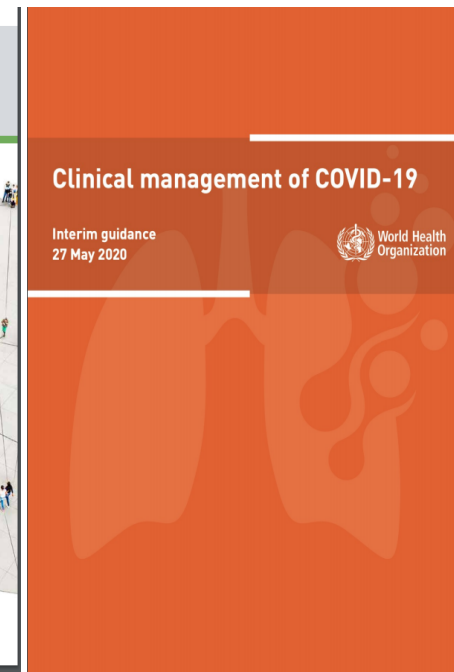
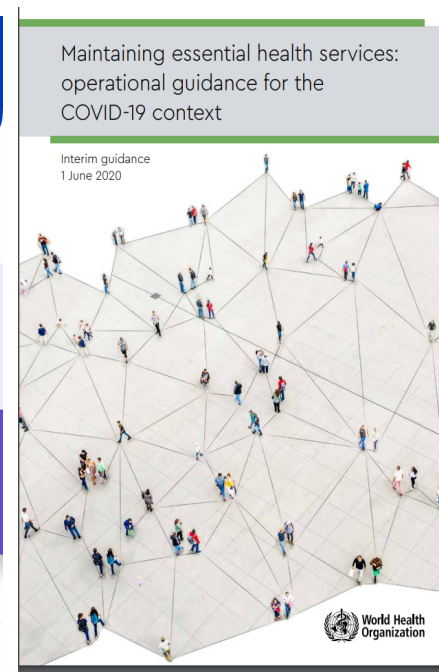
Countries are asking for urgent guidance and support from WHO



- **Guidance on how to provide continuity for NCD programmes:**
 - How to include NCDs in public health emergencies protocols?
 - How to develop national NCDs tool kits for use in emergencies?
 - How to provide ambulatory essential NCD services during lockdown?
 - How to provide medical care for NCDs through telemedicine and digital solutions?
 - How to protect people living with NCDs? (e.g. clinical guidelines, drug interactions)
- **Communication materials**
- **Better Data**



WHO Academy
app



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PROTECTIVE MEASURES AGAINST COVID-19

WASH YOUR HANDS
Frequently, Thoroughly,
& with Soap and Water



SOCIAL DISTANCING
Maintain at Least a 3 Feet* Distance!
Facetime Your Friends Instead



AVOID EYE, NOSE, & MOUTH TOUCH
Contaminated Hands
Transfer Viruses to
Parts of the Body



MAINTAIN RESPIRATORY HYGIENE
Cover Your Sneezes with
an Elbow or
Tissues, and
Dispose the
Tissues After



IF SICK, STAY HOME
If Fever, Bad Cough,
or Breathing Issues
Arise, Seek a Medical
Professional



STAY EDUCATED, & FOLLOW HEALTH ADVICE
Keep Up with COVID-19 Updates!
Follow Professional Health Advice
Given By Employers, Healthcare
Providers, & Local/National
Public Health Authorities



*Other public health authorities stipulate a minimum distance of 6 feet

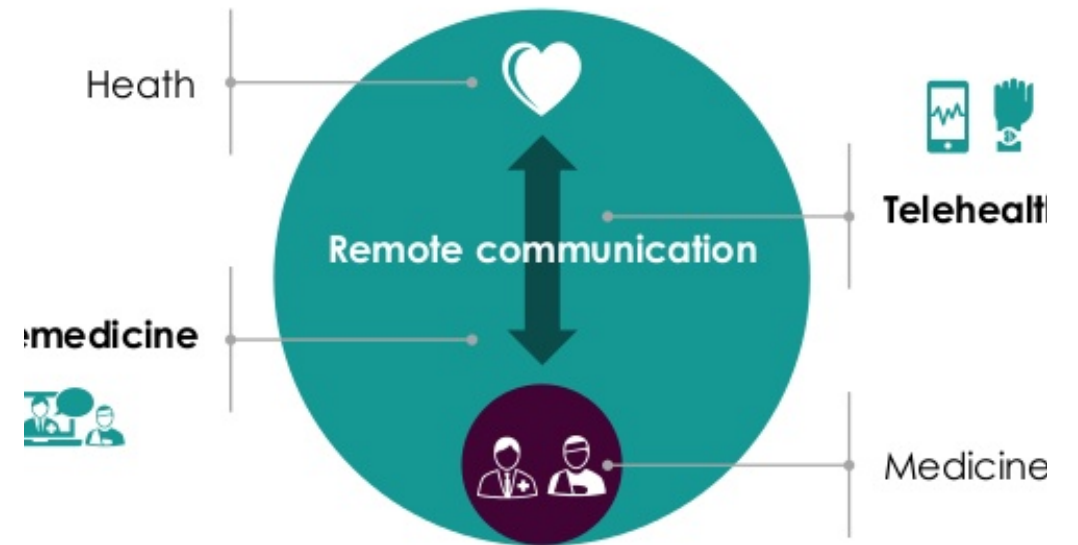
Visit www.who.int for More Info

Information Provided by the World Health Organization



Telehealth - wholistic. Integrated use of communication devices - Clinical & Non-Clinical
Telemedicine- practice of medicine to deliver care at a (physical) distance

ehealth vs Telemedicine



Visuals by infoDiagram.com

info



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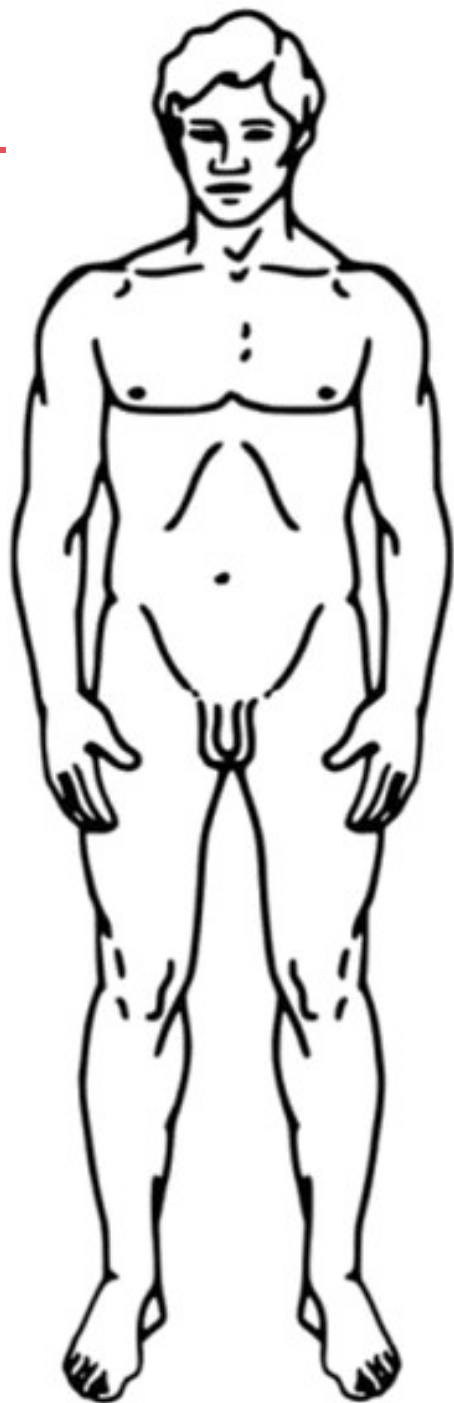
M-Health & BP

- 1) Determine the type of patient to see
- 2) Coaching & Training - patients & staff!
- 3) Provide support
- 4) “Front-end” the consultation
- 5) Set an agenda
- 6) Send them reminders!
- 7) Close the consultation



- 1. The right attitude**
- 2. A Platform**
- 3. Training - ask your neighborhood university**
- 4. ITC Support**
- 5. EMR versus paper**
- 6. Dry run**





- 
Ocular devices
- 
Blood pressure
- 
Ultrasound
- 
Vital signs
- 
Weight control



Rural Hospital



HEARTS


IN THE AMERICAS



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LifeLog Insights Hub Tracy Meyers

[Return to Patient List](#)



Chris Coffey

ADDRESS
0000 Zero Street
No City, No State 00000

DOB
1/18/1968

GENDER (AT BIRTH)
Male

Medical Team

PRIMARY CARE PHYSICIAN
Big Bird, MD

PCP OFFICE PHONE
1(904) 000-0000

ASSIGNED NURSE
Oscar the Grouch, RN

Device Details [Edit](#)

SCALE
Device ID: 00000000
Serial No.: 00000000

BLOOD PRESSURE CUFF
Device ID: 00000000
Serial No.: 00000000


Status Alerts

5-DAY WEIGHT
5/6/2019 - 5/10/2019
256 - 261 lbs + 5 lbs [Clear Alert](#)

24-HR WEIGHT
5/9/2019 - 5/10/2019
256 - 261 lbs + 3 lbs [Clear Alert](#)

ALL Weight Heart Rate Blood Pressure

Weight 261 lbs



Daily Tracking

261 lbs + 3 lbs	5/10/2019	5:12 am
258 lbs + 2 lbs	5/9/2019	5:12 am
256 lbs - 2 lbs	5/8/2019	5:12 am
258 lbs + 2 lbs	5/7/2019	5:12 am
256 lbs	5/6/2019	5:12 am

5-Day Body Weight

Average: 257 lbs
Median: 251 lbs
Peak: 272 lbs
Low: 243 lbs

Patient Status

24-HR Weight: ●

5-Day Weight: ●

Heart Rate: ●

Blood Pressure: ●

LifeLog Insights Hub

All Patients -
141 items, Sorted by Patient Status

PATIENT NAME	PATIENT PHONE	WEIGHT	WEIGHT CHANGE	DATE	TIME	BLOOD PRESSURE	DATE	TIME	
Jack Kramer	(000) 000-0000	224 lbs	+ 2 lbs	05/08/2019	5:12am	138/84 mmHg	05/08/2019	5:12am	▼
Zeke Richards	(000) 000-0000	133 lbs		05/08/2019	5:12am	142/92 mmHg	05/08/2019	5:12am	▼
Chris Coffey	(000) 000-0000	261 lbs	+ 5 lbs	05/08/2019	5:12am	133/86 mmHg	05/08/2019	5:12am	▼
Richard Wilson	(000) 000-0000	201 lbs		05/08/2019	5:12am	140/90 mmHg	05/08/2019	5:12am	▼
Reid Meyers	(000) 000-0000	248lbs		05/08/2019	5:12am	136/86 mmHg	05/08/2019	5:12am	▼
Winston Frye	(000) 000-0000	148 lbs		05/08/2019	5:12am	138/84 mmHg	05/08/2019	5:12am	▼
Quincy Reagan	(000) 000-0000	192 lbs		05/08/2019	5:12am	120/80 mmHg	05/08/2019	5:12am	▼
Dara Kim	(000) 000-0000	132 lbs		05/08/2019	5:12am	130/85 mmHg	05/08/2019	5:12am	▲

Personal Information

ADDRESS
0000 Zero Street
No City, No State 00000

PCP PHONE
0000 000-0000

ASSIGNED NURSE
H0000000

Medical Team

PCP
Big Bird, MD

PCP PHONE
(000) 000-0000

ASSIGNED NURSE
Oscar the Grouch, RN

Status


24-HR Weight: ●

5-Day Weight: ●


Heart Rate: ●

Blood Pressure: ●

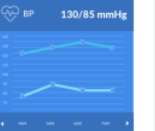
Weight 132 lbs



Heart Rate 76 bpm



BP 130/85 mmHg



< 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 >

1. **COVID19 represents a contemporaneous and unpredictable public health challenge**
2. **Public health mitigation measures only defense**
3. **This poses challenges for non-COVID cases**
4. **Delayed care will influence mortality related to NCDs - including hypertension + _____**
5. **Remote management is a possibility for management of blood pressures**



6. **Telemedicine allows for remote management of blood pressure but requires planning**
7. **Training and auditing are important in the process**
8. **Standardized treatment algorithms reduce inertia - doctor and patient**
9. **Mobile health may offer an innovative way to monitor blood pressure & other metrics**





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Twitter: @connelldr



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