

Masimo Pronto Update



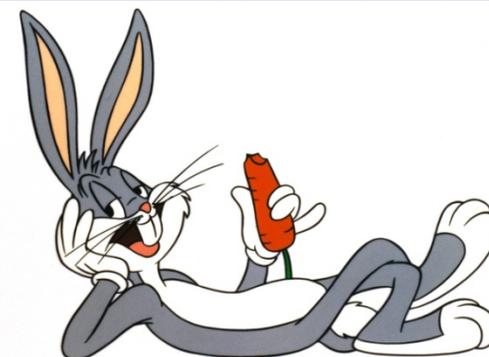
Ben Hartley MS, RD

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What's new?



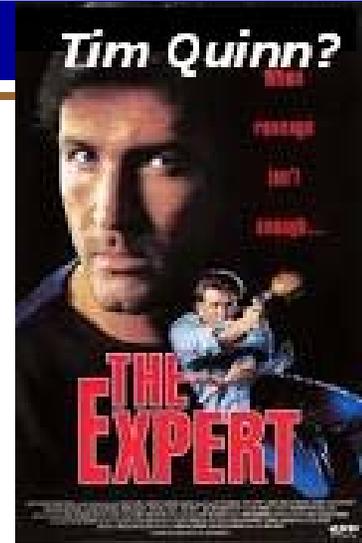
- **Standard Alkaline Batteries vs. Rechargeable?**
 - **Tim Quinn, Clinical Specialist:** Unfortunately, we don't have a lot of data on rechargeable batteries as we don't recommend them for the Pronto.
 - That doesn't mean they can't be used, just that we can't recommend them since we did not use them in our FDA submission.

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What's new?



- **Tim Quinn, Clinical Specialist:**
 - I would expect the rechargeable batteries to run out of juice quicker than non-rechargeable batteries so 3 days vs 8 seems reasonable. Remember, it is the number of tests run and not the number of days that uses up the battery.
 - The battery meter would definitely be off using rechargeable batteries and may not provide adequate notice before the battery goes dead.

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City of Amarillo WIC Program

- David Chamberlain, Admin, Director's office



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City of Amarillo WIC Program

- David Chamberlain, Admin, Director's office
- He thinks the rechargeable batteries probably last about 4-5 days before recharging.
- The regular batteries definitely last longer, maybe 7 days?
- He said they have 4 machines to serve 8500-9000 participants (monthly participation).
- Two clinics, but they carry all 4 back and forth because they are open on alternating days.

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City of Amarillo WIC Program

- David Chamberlain, Admin, Director's office
- The large clinic serves 5000-6000 and the small clinic serves 2000-2500 monthly, he says.
- Large clinic = 2 battery chargers
- When the battery meter has 2 bars, the staff rotate fresh batteries and charge the other ones.
- They report to him that the machine takes longer to read, in their opinion, when the battery meter has 2 bars.
- Small clinic (2000-2500 monthly) = one battery charger

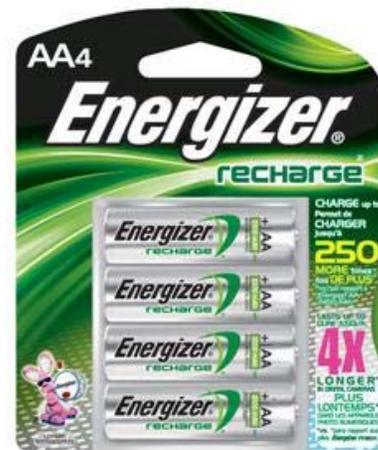
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- Energizer brand rechargeable batteries, they have green markings.
- As far as success with young children, he said they have trouble getting readings maybe 1% of the time.



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- Staff already were used to calming kids, putting stickers on their hand while taking the test to give them something to look at, etc.
- They do tests in the certification offices and not in a lab room.



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Operator Manual

- Clean with soft cloth dampened with mild detergent and warm water
- Okay to use externally:
 - Cidex plus,
 - Ammonium Chloride solution .25%,
 - 10% bleach,
 - 70% Isopropyl Alcohol

No petroleum-based, acetone solutions, harsh solvents

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Operator Manual

- Failure to replace batteries promptly after a low battery alarm may result in the Pronto shutting down (battery meter begins to flash, shuts down).
- ***Non-Alkaline batteries may affect the accuracy of the battery meter.***

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Operator Manual

- The Pronto will power off automatically after 5 minutes of inactivity
- ***If not using immediately after successfully obtaining a reading, will use 5 minutes of battery time before shutting down.***
- ***If 20 appointments daily, 15-20 minutes apart, a machine left “ON” would waste 100 minutes of battery time EACH DAY before automatic power off.***

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Other information

- Operators' manual states that readings found to be **within 2 g/dL** of laboratory invasive hemoglobin measures
- Dyes that change usual blood pigmentation may cause erroneous readings (henna, dyoderma - vitiligo)
- **Indocyanine green**
 - Cardiac output, hepatic function, liver blood flow, ophthalmic angiography
- **Methylene blue**
 - Methemoglobinemia, ifosfamide-induced encephalopathy, cyanide poisoning
- Nail polish

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Other information

- Do not use Masimo Pronto during MRIs, defibrillation or electrocautery!



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Other information

- Masimo assured webinar listeners that the device will not give inaccurate values when batteries are low (if you get a reading, it is accurate).
- They did a study in Texas comparing the Pronto with spun hematocrit and the results were consistent between hematocrit and Pronto.

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Arizona's Experience



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Arizona's Experience

- We have heard that the Masimo values tend to run a little higher than what staff were used to seeing with the Hemocue.
- Possible factors:
 - "milking" the finger
 - not enough blood in the cuvette
- WIC is **screening**, NOT diagnosing anemia
- Trust the result you get from the Masimo. We do not expect local agencies to retest with the Hemocue if they get a low or high Masimo result

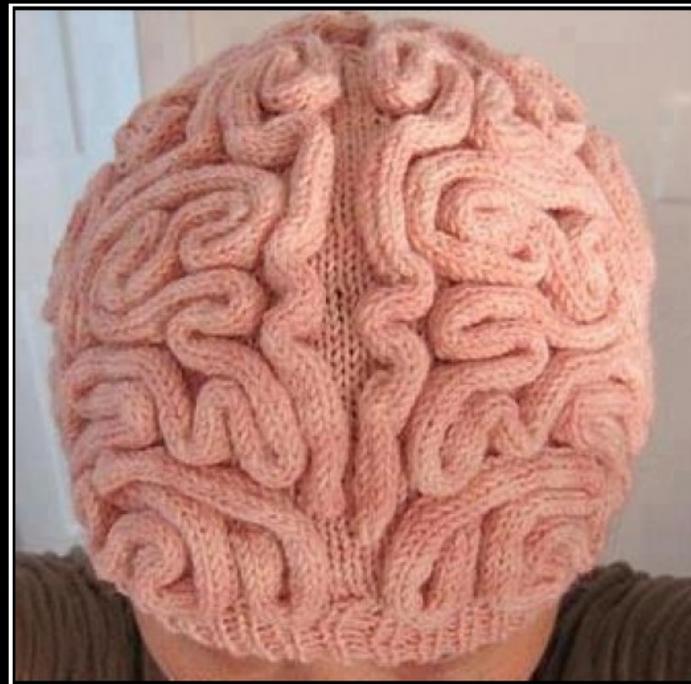
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Arizona's Experience

- Our scope of practice has not changed; if you get a value that is outside of the "normal" range you will make a referral per your agency policy.



MY THINKING CAP

I hope it's not too cerebral...

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