

Vaccine Vial Monitors: Over 11 billion delivered; Good for Governments, People, and Climate

Wednesday, October 16, 2024



From Temptime to ZEBRA

- 1) Worldwide leader in time-temperature indicator technology
- 2) Part of the global health community for nearly 30 years
- 3) Invested in the success of Regional Vaccine Manufacturing

We work closely with more than 80 vaccine manufacturers, including Brazil's Bio-Manguinhos, Libbs Farmaceutica, and Butantan. We stand ready to assist these and new, emerging partners in LATAM and Africa to help them achieve success.



We work with Governments & DCVMs to Help Them Succeed

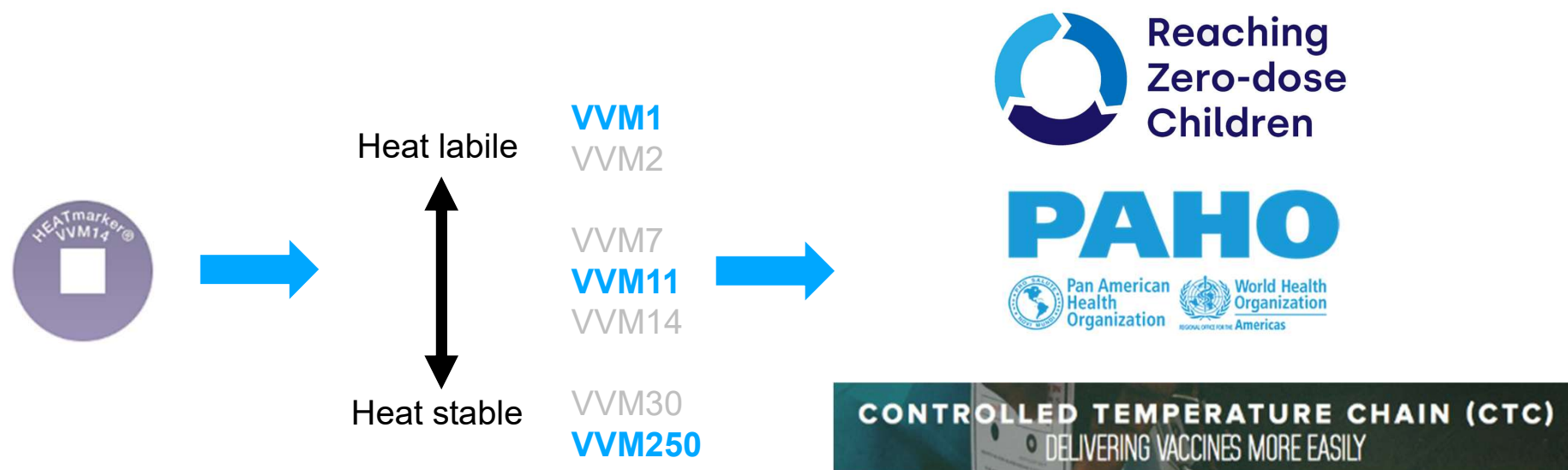
VVMs are applied to vials during fill-finish, so our know-how is across all types of labelling equipment, and we can help with design, technical assistance, and implementation.

How We Help:

- ✓ Work closely with Ministries of Health and Regulatory Bodies on training materials
- ✓ At no cost, share equipment design for a unique label-on-label machine used by 10+ DCVMs
- ✓ Co-develop specific vaccine labels to increase capacity and overcome language challenges



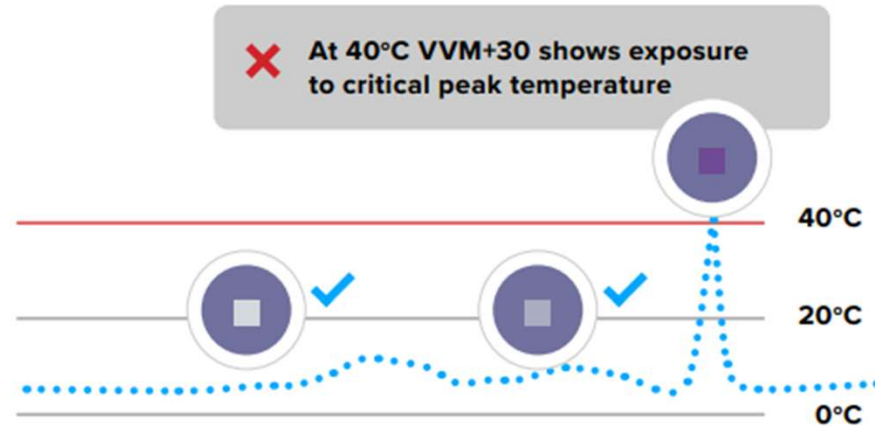
We Adapt to Help Those in Need



As the world adapts to new health challenges, and new vaccine platforms and delivery methods, the VVM is evolving, too. We are constantly innovating new VVM types to make sure all vaccines can be confidently delivered where the cold chain is the weakest.

Whether PPPR, reaching the Last Mile in Routine Immunization, or adapting to Climate Change, we aim to accommodate any type of vaccine in any quantity.

We Adapt with Climate in Mind



HEATmarker® VVM+ used in a Controlled Temperature Chain (CTC).

- Developed to monitor more heat stable vaccines: like Typhoid, Cholera, HepB, and HPV
- Omits the need for cool packs at the last mile
- No need to replenish cool packs
- Lowers the overall carbon footprint of vaccine delivery

We Stand Ready to Support



**By Supporting Policy
& Advocacy**

**By Aiding Existing & New
Manufacturers & Distributors**

**By Providing In-Kind &
Technical Support**

**By Ensuring VVMs are easy
to apply and use**

Leadership & Coordination



Technical Assistance & Financing



Role of Manufacturers



Come Visit Our Booth

Regional VVM, VVM+, VVM App now in Spanish



More than 25 years of Cold Chain Visibility

Since 1997, Vaccine Vial Monitors (VVMs) have been used to more than 11 billion life-saving vaccines to ensure the efficacy of the cold chain.



Reimagine your Pharmaceutical Supply Chain Visibility

Achieve a higher level of continuous real-time visibility into temperature and location data within your pharma supply chain using Zebra's ready-to-use indicators and our secure, reusable ZS300 electronic sensor.



Ted Prusik - 1951 to 2024



In loving memory of Ted Prusik, who alongside colleagues at WHO and PATH persisted over three decades to create the VVM, thereby ensuring children have access to effective vaccines by the time they are administered.

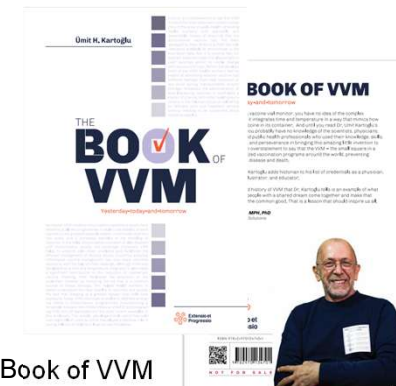


Photo acknowledgement:
To Umit Kartoglu author of The Book of VVM

Thank You

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