The Optical Revolution in Blood Pressure Management

Biospectal's OptiBP™ software-only blood pressure management and connected data platform improves clinical monitoring and treatment access and effectiveness via existing smartphones and data integration... instantly and anywhere in the world.

biospectal

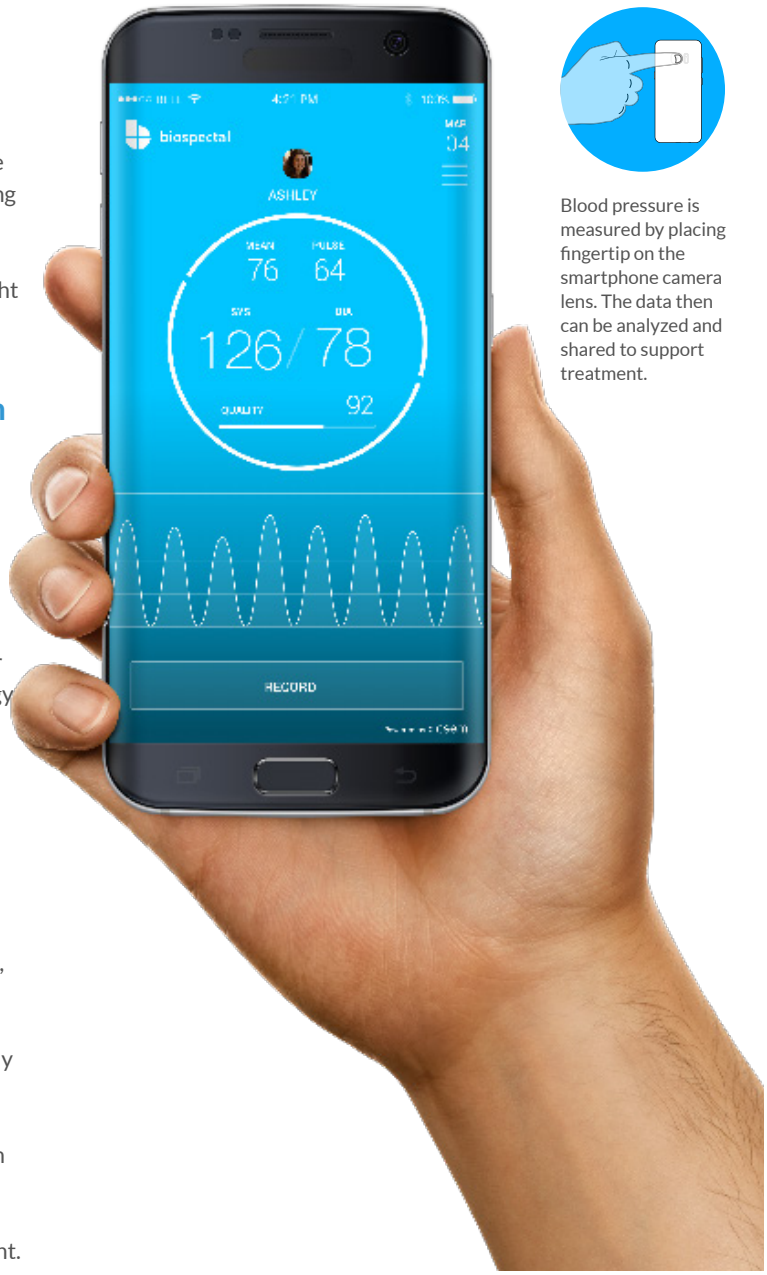
Tackling the global hypertension epidemic through ubiquitous access to easy, effective blood pressure management

Hypertension is the number one global chronic health condition affecting more than 1.4 billion people affected worldwide. Yet the current method of measuring and managing blood pressure relies on the blood pressure cuff, a technology that's been around well over a hundred years with virtually no innovation. The cuff is uncomfortable, hard to get, clumsy to carry around and offers little insight or support to improve health.

OptiBP™'s app and data platform enables measurement, analysis, and treatment of hypertension via existing smartphones – no extra hardware required

Biospectal's OptiBP™ makes anytime, anywhere blood pressure measurement possible by using optical signal processing algorithms to measure blood flow non-invasively via the fingertip on the smartphone camera. We convert this information into blood pressure values using breakthrough our Optical Blood Pressure Algorithms (OBPM) developed in collaboration with the Swiss Center for Electronics and Microtechnology (CSEM). Our optical biosensing technology represents over a decade of non-invasive optical biosensing research and development in hospital operating rooms and clinical environments. OBPM's optical signal analysis has been proven in clinical trials to estimate blood pressure values with medical grade accuracy. Biospectal is now bringing that technology to the device everybody has in their pocket, solving the primary problem of regular monitoring and integrating data to the clinical course of treatment.

The OptiBP™ app dramatically improves the experience of measuring, tracking, and managing blood pressure anywhere in the world in the time it takes to download and install the app. By offering anytime, anywhere, medical grade blood pressure measurement at the fingertip, we enable anyone to conveniently capture and act on critical information that supports improved outcomes. We are dedicated empowering patients to improve their health by better tracking, understanding, and sharing with medical professionals. And for health professionals, we provide better, more regular data and insights to support more effective treatment and outcomes. Our goal is to help people live longer, healthier lives through more accessible and effective hypertension management.



Blood pressure is measured by placing fingertip on the smartphone camera lens. The data then can be analyzed and shared to support treatment.

Key Benefits

- No extra hardware – Instant distribution from anywhere via download to existing smartphones
- Better user experience and ease of access in smartphone improve adherence
- Connected patient data improves clinical decision support and treatment
- Global data creates unprecedented value for clinical research, epidemiological insight, pharmaceutical development and treatment methods

Global Access

Automated EMR Integration

Notifications & Alerts

Decision Support

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