

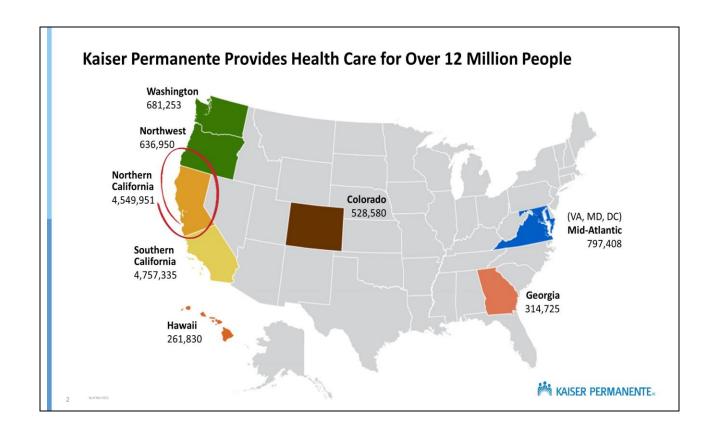
Mai Nguyen-Huynh, MD MAS FAHA Chief of Neurology, Diablo Service Area

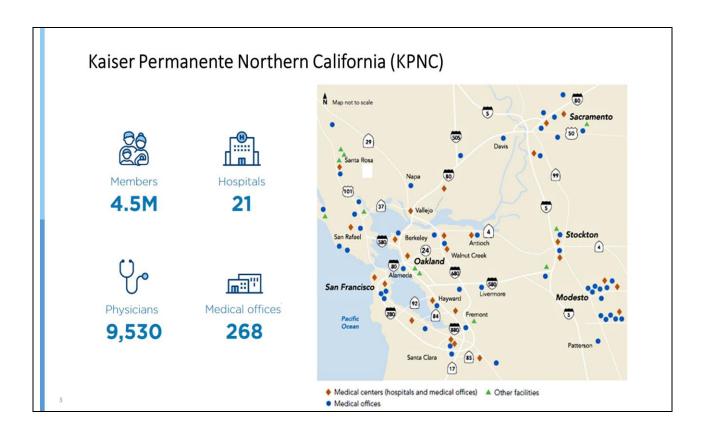
TPMG Regional Medical Director – Primary Stroke

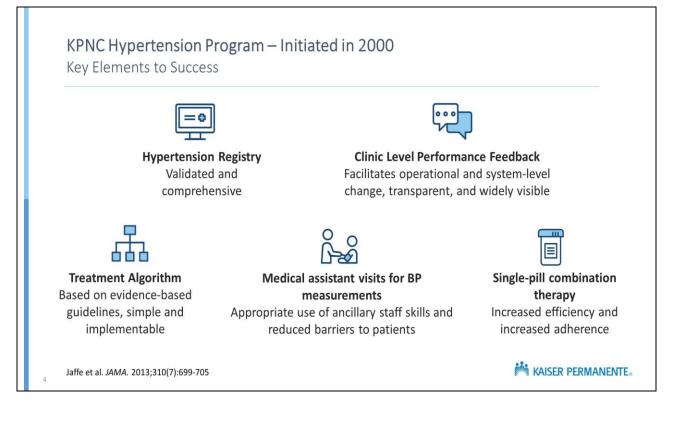
Research Scientist II, Division of Research

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System-wide Hypertension Registry

- · Elements used for identification
 - Outpatient diagnostic codes on a quarterly basis
 - · Pharmaceutical utilization data
 - Hospitalization records
- Selection criteria: Two HTN diagnosis in 24 months
- Clinical exclusions: frailty, hospice, SNF, pregnancy, ESRD
- · Validated accuracy through random chart reviews
- Registry grown from 350,000 to more than 650,000 individuals
- Identified prevalence of hypertension increased from 15% to 27% of adult membership

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Evidence-based HTN guidelines

- System-wide evidence-based guidelines updated every 2 years
- Diverse guideline development team: primary care, specialty physicians (cardiologists, nephrologists, endocrinologists), pharmacists and evidence-based methodologists.
- · Simplified drug treatment algorithm
- Aligned with other organizational guidelines to ensure consistent educational messages
- Distributed in many forms





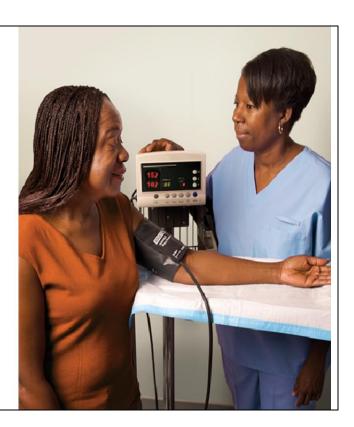
Quality Performance Metrics

- In 2001, internal HTN control reports developed for quality improvement.
- Outpatient BP values obtained from ambulatory setting, excludes ED, procedures, inpatient.
- Measures based on same inclusion/exclusion criteria as NCQA/HEDIS
- Initially a "manual" registry until KPNC's adoption of an electronic health record in 2008
- Identified best practices or innovations from high-performing medical centers and disseminated system-wide.
- Focus on performance improvement efforts at clinic-level and clinician-level.

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Medical Assistant BP Visits

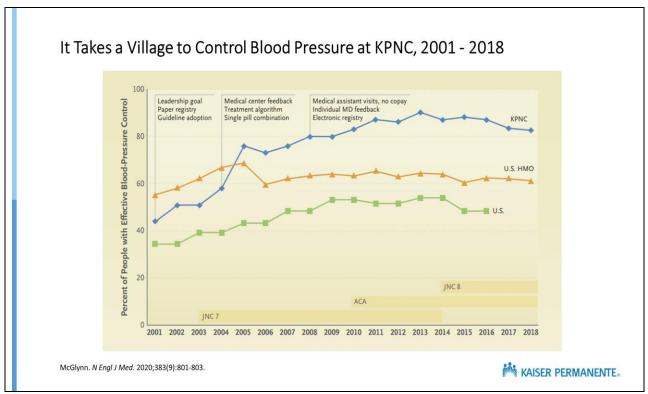
- Created in 2007 as an alternative to traditional office visit with physician
- Visits schedule 2-4 weeks following a BP medication adjustment
- · No co-payment
- MA trained using standardized materials and underwent periodic assessments.
- Measured BP forwarded to PCP and/or pharmacist for further action.



Single-pill Combination Therapy

- Incorporated into our evidence-based guidelines in 2005.
- Therapy promoted by both patient and physician education materials.
- Improved adherence
- Lower patient cost
- · Improved blood pressure control





Telehealth, Lifestyle Coaching and Future Opportunities

- COVID-19 has increased virtual care.
- Home BPs accepted/encouraged.
- Increased patient and provider training about new options for BP.
- New workflows and tech tools to support home BPs.
- Remote options may be key to younger, busy patients' engagement.
- Culturally appropriate lifestyle coaching was better than usual care in controlling BP among Black patients with persistently high BP.





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Thank you!

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