



# RLI Power Hour

Wednesday May 18, 2022



## Role of Radiology in Population Health Management

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# PFCC PHM Committee Mission

- Engage radiologists and stakeholders on the importance of the role of radiology in population health management
- Collaborate with other PHM leaders to disseminate experiences of radiologists involved in population health management
- Partner with other Economics and PFCC internal groups and stakeholders
- Co-chairs Syed Zaidi and Ryan Lee
- Admin Chris Hobson
- PFCC Commission Chair Arun Krishnaraj

# Definition of Population Health Management

The goal of population health management...is to **keep** a patient population as **healthy** as possible, minimizing the need for expensive interventions such as emergency department visits, hospitalizations, imaging tests, and procedures....Population health management requires healthcare providers to **develop new skill sets** and new infrastructures for delivering care....Automation makes population health management feasible, scalable and sustainable.

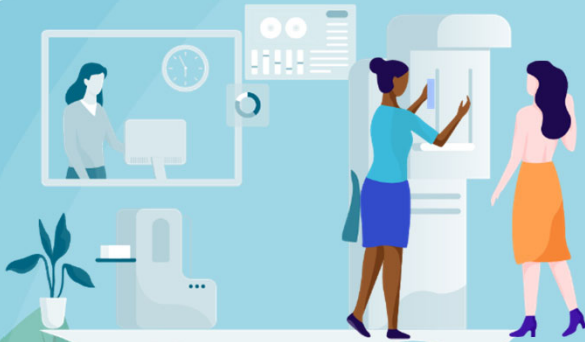
-Institute for Health Technology Transformation

# POPULATION HEALTH MANAGEMENT

SURVEILLANCE AND PREVENTION

ACUTE CARE

CHRONIC CARE MANAGEMENT



Mammography  
Low Dose Chest CT  
Virtual Colonoscopy  
AAA screening  
AI tools



ACR Imaging 3.0 · Choosing Wisely  
Best Practice Recommendations  
Clinical Decision Support  
IP Care Coordination  
Clinical Pathway Management



Follow-up: AAA, Lung Nodules  
Oncology Intervention  
Fatty Liver  
Metabolic Syndrome  
QALY improvements



ACR IMAGING 3.0 · ACO'S/MSSP · SHARED RISK MODELS WITH PAYERS · MIPS · APM · COMMUNITY HEALTH INITIATIVES

# POPULATION HEALTH MANAGEMENT

## ACUTE CARE

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ACR Imaging 3.0  
Choosing Wisely  
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Clinical Decision Support  
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Clinical Pathway Management



# POPULATION HEALTH MANAGEMENT

## CHRONIC CARE MANAGEMENT

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QALY improvements





# AJR

Online First  
Accepted Manuscript

## **Radiologists' Increasing Role in Population Health Management: AJR Expert Panel Narrative Review**

*Jessica H. Porembka, MD, Ryan K. Lee, MD, MBA, Lucy B. Spalluto, MD, MPH, Judy Yee, MD, FACR, Arun Krishnaraj, MD, MPH, Syed Zaidi, MD, MBA, Cecelia Brewington, MD, FACR*

<https://doi.org/10.2214/AJR.21.26030>

Accepted: July 14, 2021

Article Type: AJR Expert Panel Narrative Review

*The complete title page, as provided by the authors, is available at the end of this article.*

### **Abstract**

Population health management (PHM) is the holistic process of improving health outcomes of groups of individuals through the support of appropriate financial and care models. Radiologists' presence at the intersection of many aspects of healthcare, including screening, diagnostic imaging, and image-guided therapies, provides significant opportunity for increased radiologist engagement in PHM. Further, innovations in artificial intelligence and imaging informatics will serve as critical tools to improve value in healthcare through evidence-based and equitable approaches. Given radiologists' limited engagement in PHM to date, it is imperative to define the specialty's PHM priorities so that the radiologists' full value in improving population health is realized. In this expert review, we explore programs and future directions for radiology in PHM.

# AJR PHM Paper Conclusions

1. Radiologists are uniquely positioned to positively influence PHM initiatives.
2. Radiologists should engage with their healthcare ecosystem stakeholders in developing and managing successful population health programs.
3. Value-based care initiatives provide an opportunity for radiologists to participate in interdisciplinary collaboration and PHM.
4. Radiology information and quality assurance systems should be used to promote quality patient care and optimize health management strategies.
5. Management of opportunistic imaging should be standardized to positively impact patient outcomes and decrease healthcare costs.
6. Large population data sets available to radiologists provide a springboard for developing AI algorithms to benefit populations.
7. A variety of financial models requiring active engagement and collaboration with other specialties, inclusive of radiology, can support population health initiatives.



## PHM Strategy Takeaways

- Get off the FFS train – reimbursement cuts to stay
- Partner with the health system/PCPs on taking risk
- Invest in care coordination
- Work on demand side of imaging, not just supply
- Use AI to improve quality, not just focus on productivity
- Groups who have a PHM strategy will outperform those that don't
- Excellent patient care is the best business model

# Thank you!

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