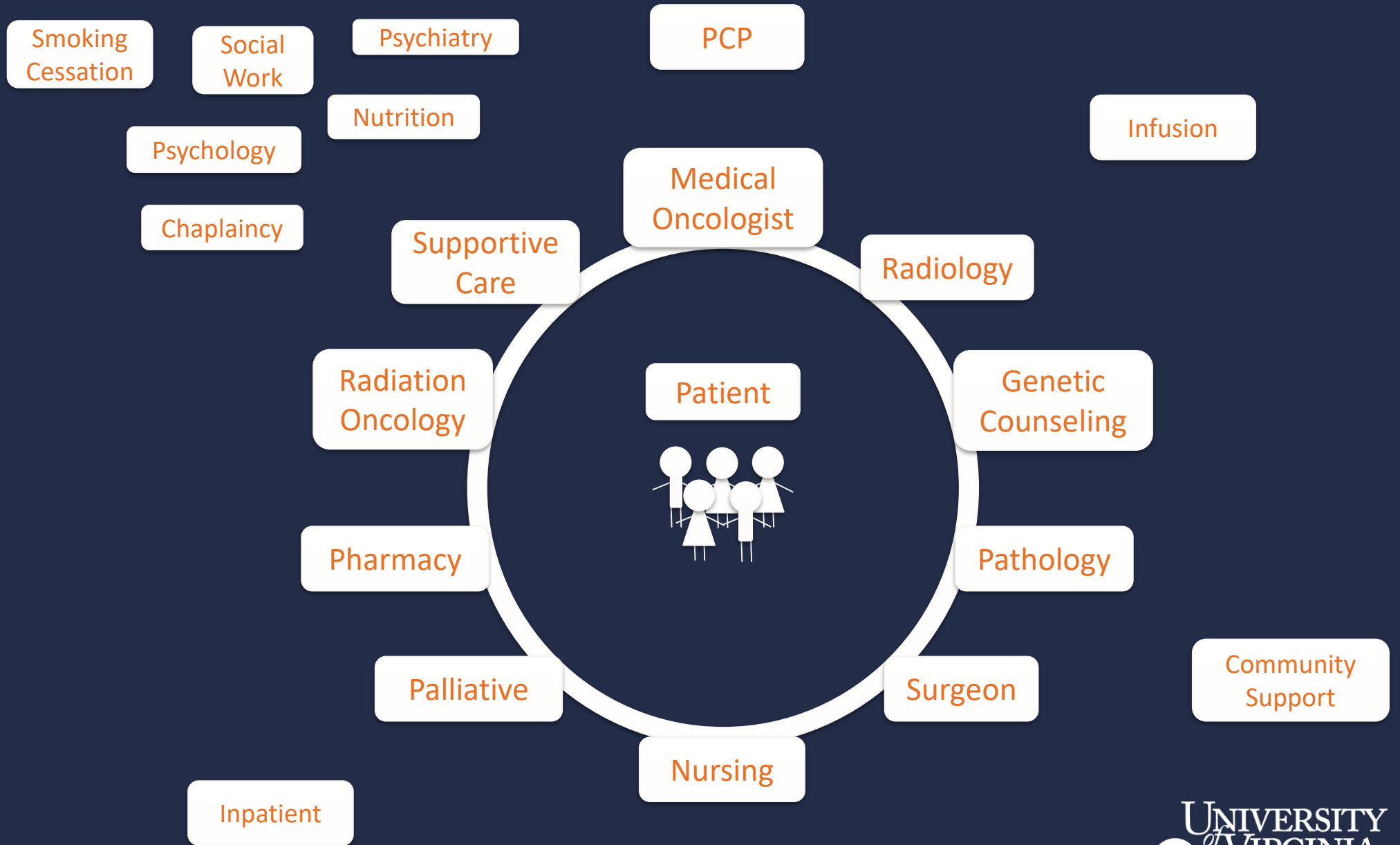




# Tele-Oncology Challenges, Program Development, and Technology

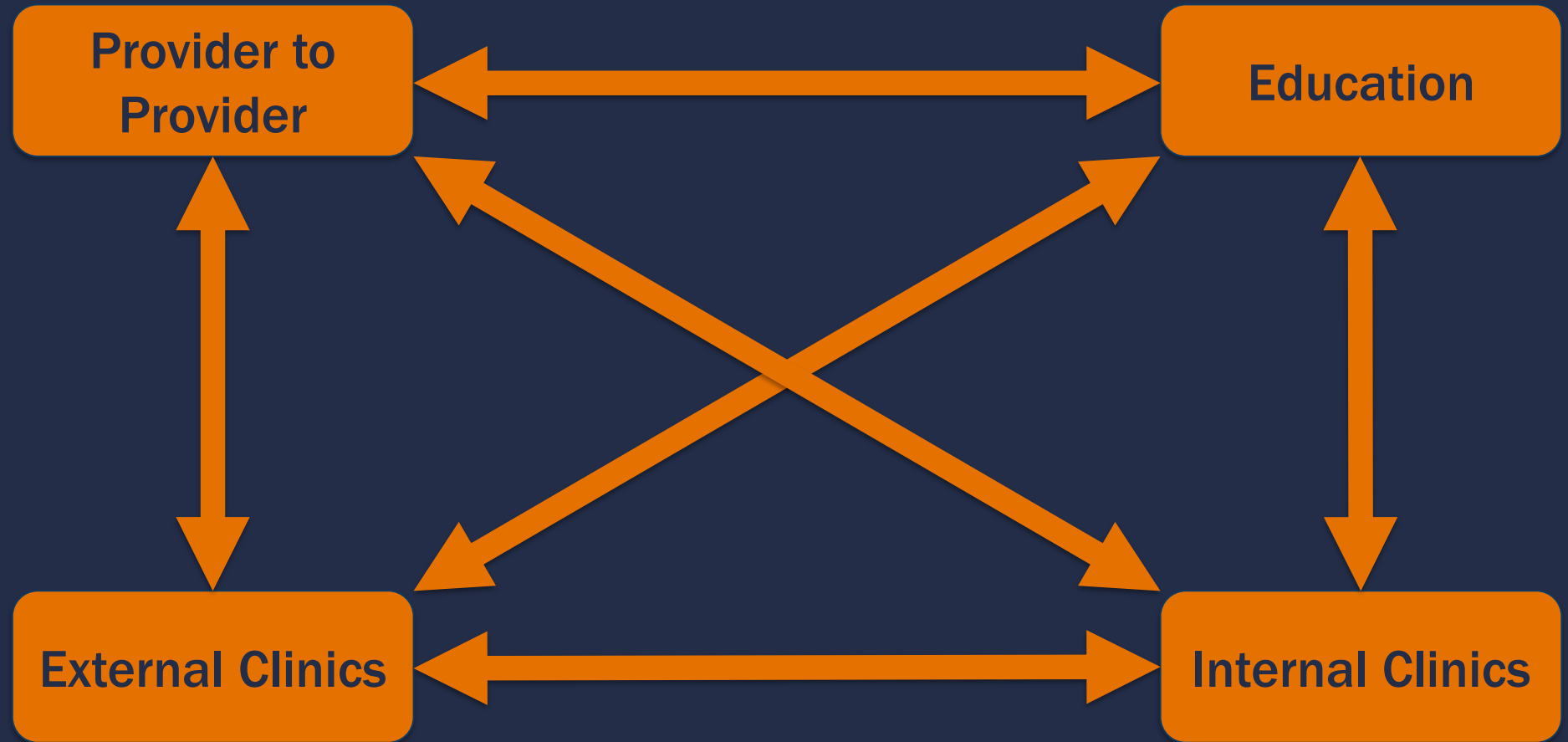
Brian Dunn – UVA Karen S. Rheuban Center for Telehealth



# Common Tele-Oncology Barriers and Challenges

- **Complex treatment management**
- **Providers and care teams are overwhelmed**
  - **Cancer is becoming a chronic condition**
  - **New drugs and therapies “daily”**
- **”I may not get the labs and imaging I want”**
- **”I want to see my patients, every visit” (Physical touch)**
- **JC/COC considerations**
- **Appointment stacking**
- **Revenue cycle**
- **Hub and spoke patient population percentage**

# Programmatic Development



# Programmatic Development

## Provider to Provider

- Internal case conferences
- Specialty consults
- Treatment coordination
- Administrative meetings
- New treatment roll out

## Education

- Population health efforts
- Grand rounds
- Lectures
- Clinical trial availability
- Caregiver education
- Patient education
- External case conferences

# Programmatic Development

## Internal Clinics

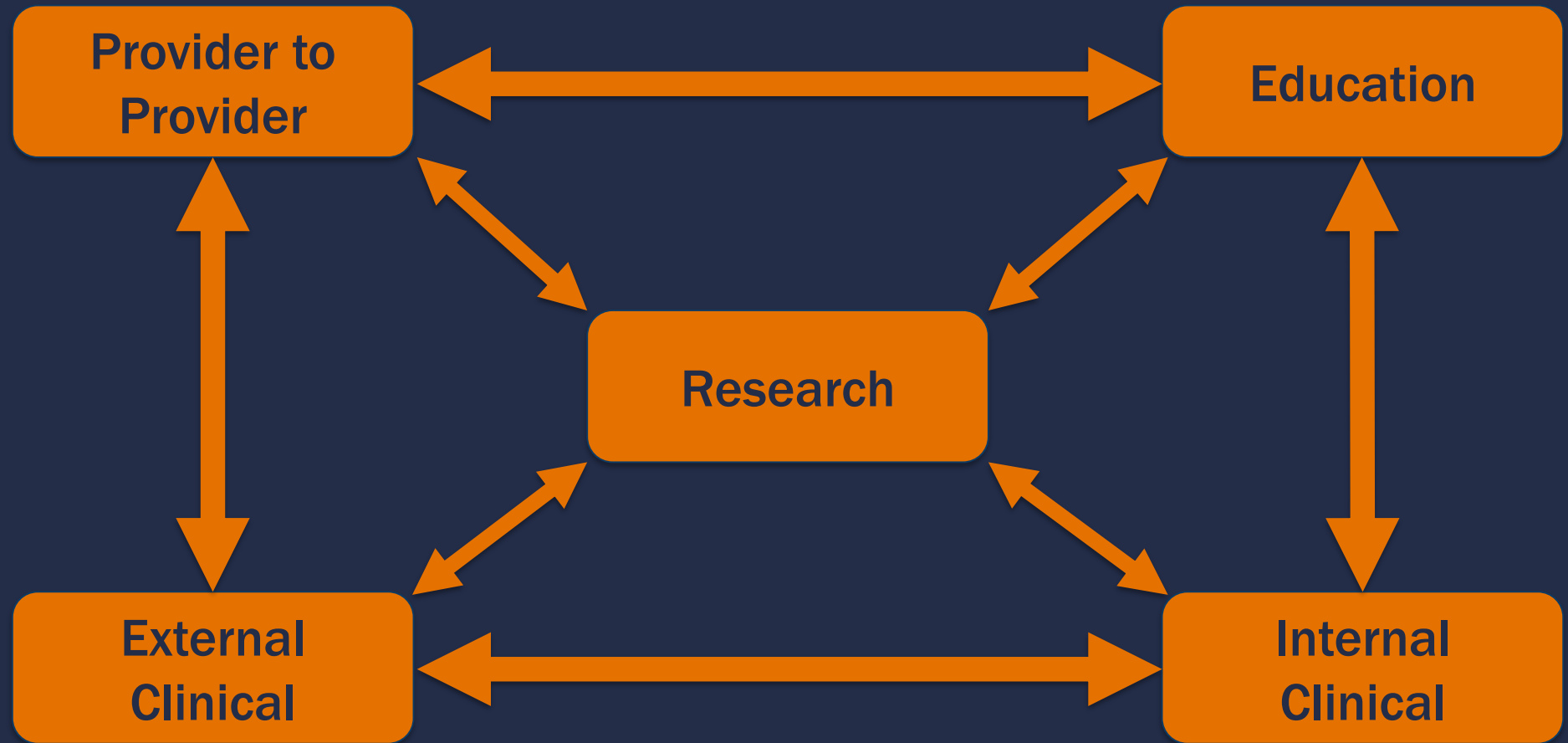
- Screenings
- Community based site specialty consults
- Genetic counseling
- Supportive care services
- Clinical trials (Accrual and Protocol delivery)
- Pre/post surgery visits
- Remote patient monitoring
- Nursing visits
- Transplant

# Programmatic Development

## External Clinics

- Prevention and screening programs
- Screenings
- Genetic Counseling
- Multi-center clinical trials (trial accruals and remote patient monitoring)
- Second opinion
- Transfer management
- Referral management
- Surgery and treatment follow-up with referring provider
- Support groups and survivorship
- Transplant services
- Care guidance
- Shared care of appropriate patients

# Programmatic Development





# Relevant Technologies

## Provider to Provider

- Conference rooms
  - High quality room systems
  - Peripherals (Microscope, Imaging computer)
- Office connectivity
  - User based hardware systems
  - Software based video clients
- Mobile connectivity
  - Mobile devices like phones and tablets
  - User based hardware systems at home (24/7 programs)

# Relevant Technologies

## Clinical Hub and Spoke

- Consult and exam rooms
  - Desktop hardware devices
  - Peripherals for diagnostics
  - Mobile carts or devices
  - Conference rooms
- Hospital ED or inpatient
  - Mobile carts
  - Pan tilt and zoom (PTZ) camera
  - Tablets

# Relevant Technologies

## Home Based Care

- Remote Patient Monitoring
  - Broadband
  - Cell enabled tablets
  - Web based video tools
  - Peripherals (scale, BP cuff, pulsox, etc)
- Support groups/Survivorship
  - Broadband
  - Smart phones and tablets
  - BYOD
  - Web based video tools

# Relevant Technologies

## M-Health and AI

- Apps
  - Screening
  - Education
  - Interventions
- AI Screening
  - HPV
  - Others?
- Pain management
- eConsults

# Questions?

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