

# #Rehabilitation

## A $\mu$ report

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# Rehabilitation

## What is the flow of content?

1. Conversations
2. Start-ups
3. Interventions
4. Summary



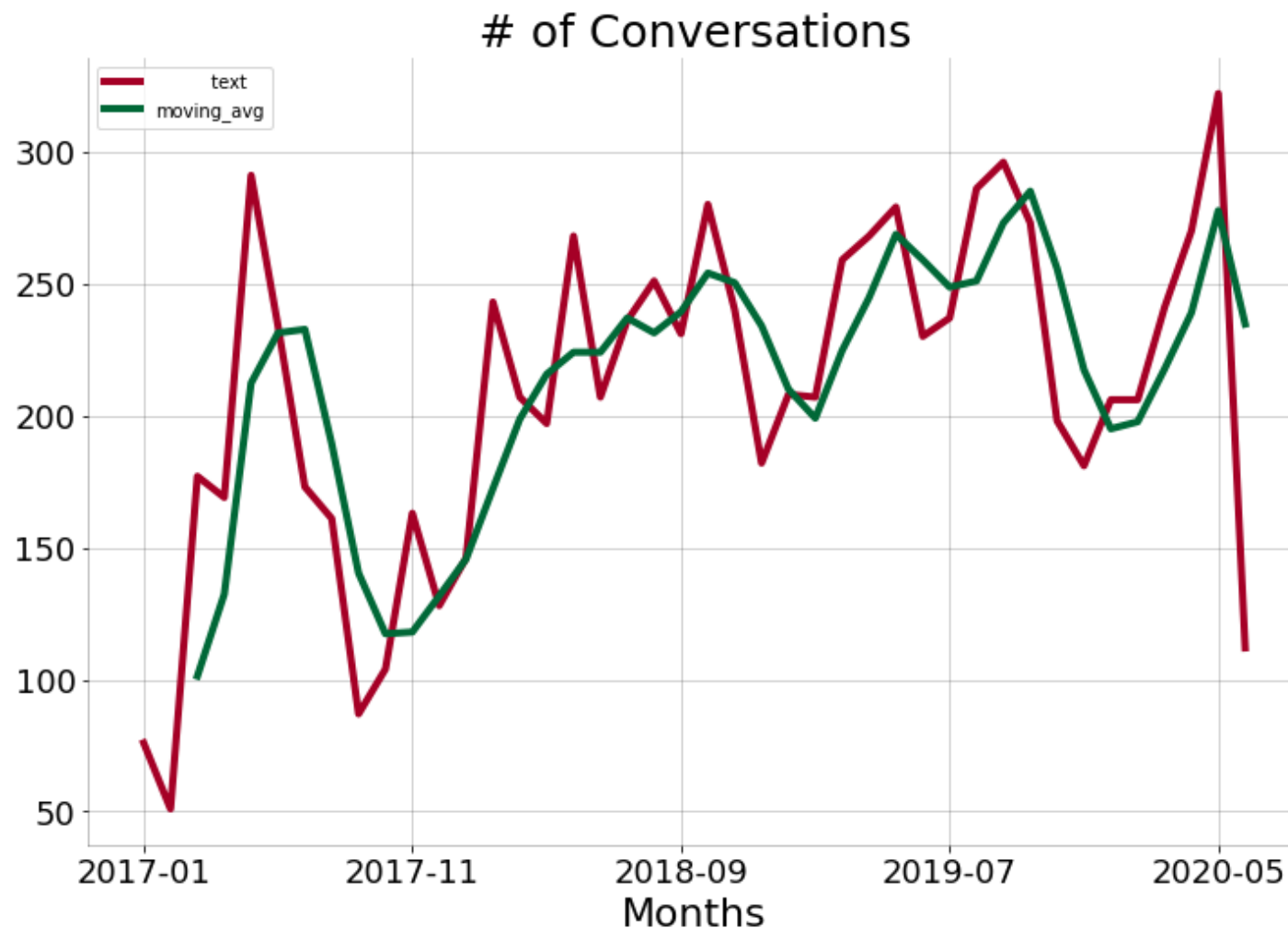
Image Source: Pexels.com

# Rehabilitation Global Conversations

## Rehabilitation

# What is conversation trend?

- Increasing trend over last couple of years
- Pandemic has seen a spurt in conversation

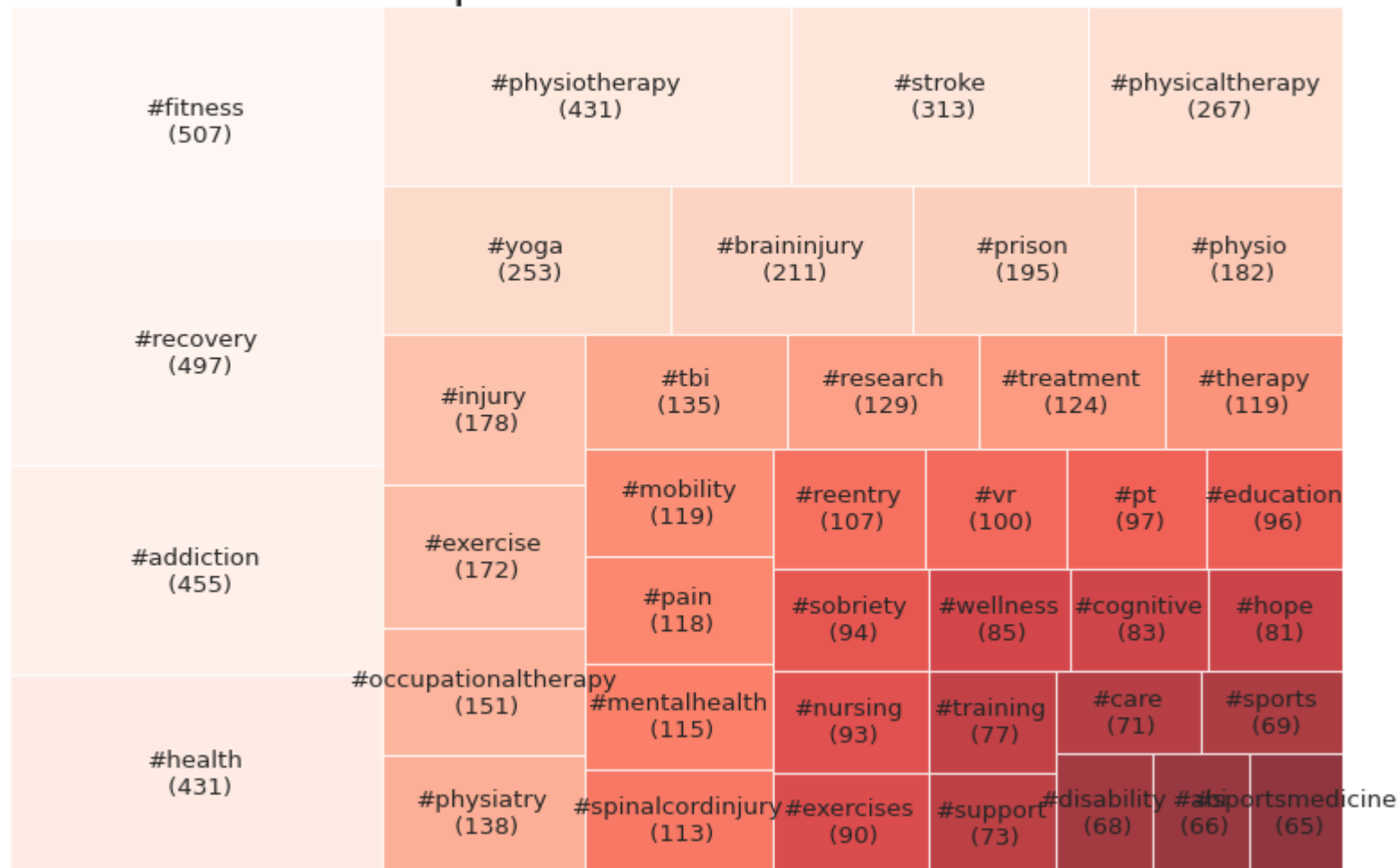


# Rehabilitation

## What is being discussed?

- Health, Fitness & recovery the main focus
- Addiction, stroke, injury, & mental health most spoken about
- Basic exercises, yoga to specific therapies & treatments conversed
- Other aspects of research, nursing etc talked about
- Sports medicine plays major role
- #Virtual Reality gaining traction

### Topics of conversation

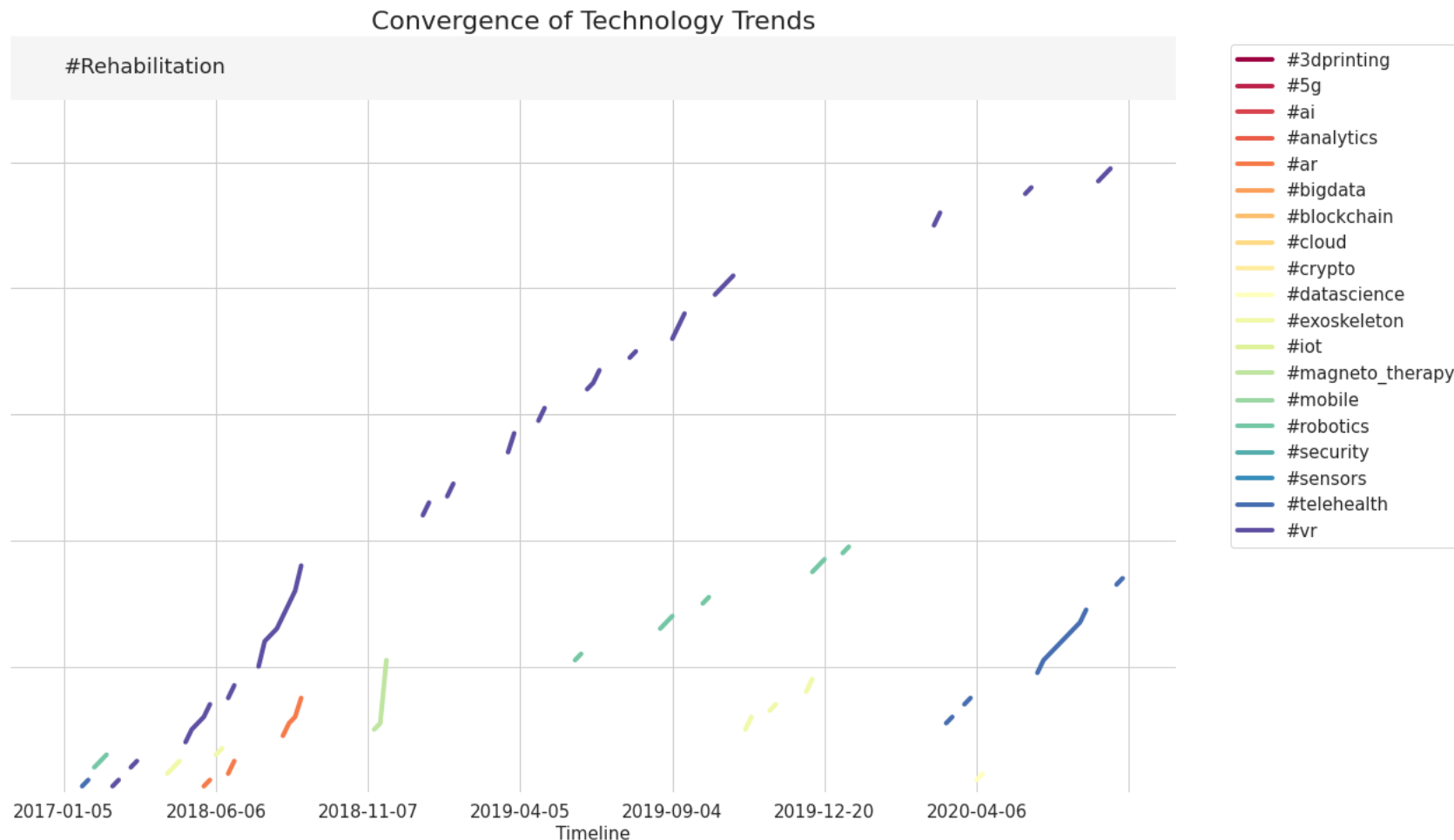


Note: Only Top 30 shown

# Rehabilitation

## What Technologies are driving?

- Virtual Reality is the big focus
- Robotics strongly follows
- Telehealth has trended since pandemic started
- AI increasingly finding applications
- Areas like magneto therapy & exo skeletons continue to raise



# Rehabilitation

## What are some use cases?

### VR

"The idea is that by being so immersed in what they see, #patients are distracted from their #pain"

"Scientists from @EPFL\_enhave developed an #artificialskin that provides haptic feedback. Applications for the new technology range from #rehabilitation to #VR"

"Besides #PainManagement, researchers and clinicians are investigating how #VR can be applied to everything from treating #phobias to physical #rehabilitation."

"#VirtualReality is now revolutionizing physicians' education. From tooth surgery to organ transplants, #doctors can practice new treatment techniques on virtual patients."

"#VR4Rehab aims are to establish an open, permanent co-creation platform for knowledge exchange concerning the intersection of #VR-technologies and the demand from #rehabilitation clinics' specialists and patients."

"VR technology helping dementia patients become reaccustomed to the world."

### Robotics

"lower extremity assistive robotic exoskeletons in rehabilitation therapy"

"From Service Robots to #Rehabilitation & Patient Transfer Robots"

"Therapy robots could help patients get back on track more quickly."

"Dr. Cao from #MossRehab introducing #robotics and #gait training system for #stroke rehab in the acute inpatient #rehabilitation setting"

"Wrist robot-assisted rehabilitation treatment in subacute and chronic stroke patients: from distal-to-proximal motor recovery"

### AI

"#AI-based #rehabilitation at #home SPECS-lab ERC projects #cDAC & #cRGS"

"focused on developing probabilistic graphical models for decoding #brain signals for #BrainComputerInterfaces in #rehabilitation applications"

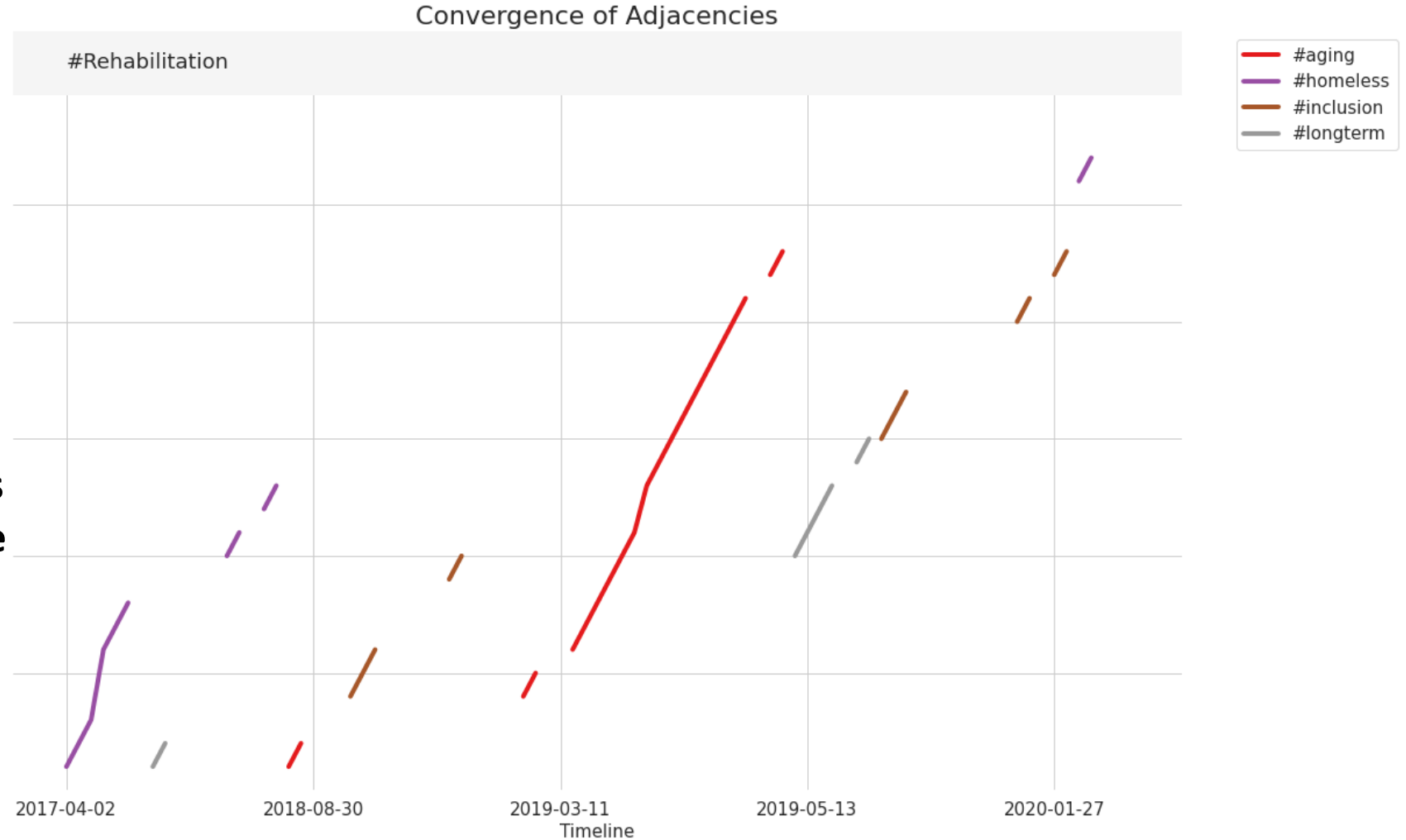
"AI #technology to help with caring for its #greying population, from #electronic #rehabilitation machines to #cancer screening tools"

"S-AIRBAG Intelligent Belt could save seniors from breaking their hips"

# Rehabilitation

## What Aspects are intersecting?

- Aging has been an increased focus of conversations
- Inclusion in rehabilitation has gained traction in recent times
- Long term care trended couple of years back but not sustained



## Rehabilitation

# What does the machine suggest to check?

- Explore “yoga” developments
- Watch specific treatments like “vestibular”, “hydro”, “ultrasound” etc
- “Addiction Treatment” can give valuable lessons
- “Telehealth” to be considered
- “Homeless” rehab is an additional opportunity
- “Fitness” & “Recovery” for “Rentry” the mantra



Note: Only few suggestions displayed

Source: 10s of 1000s of conversations

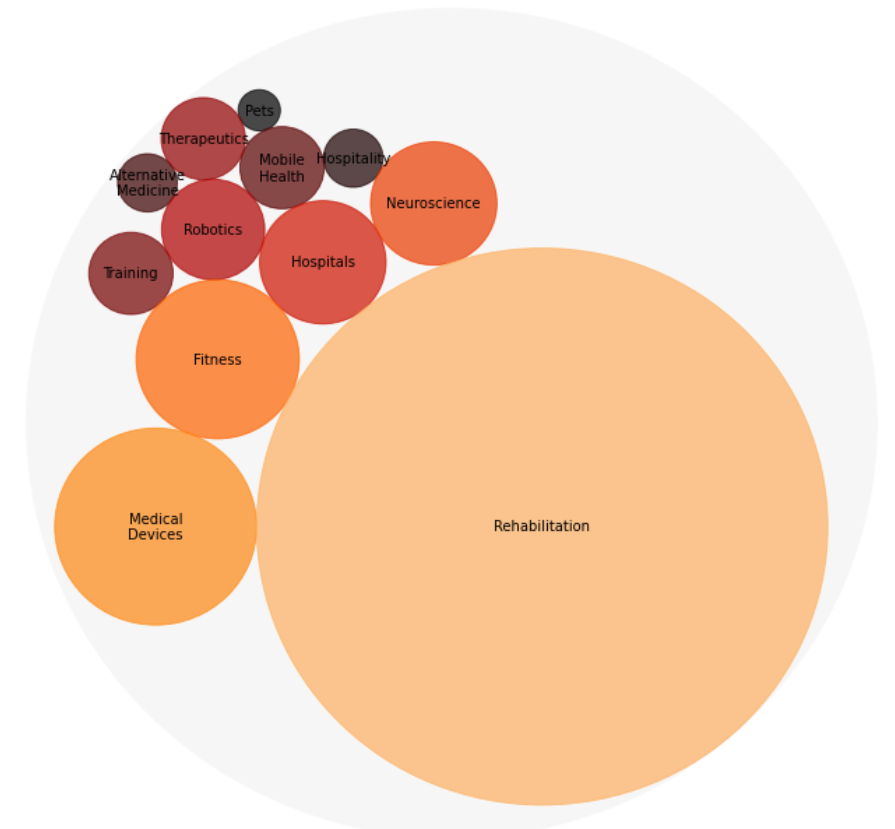
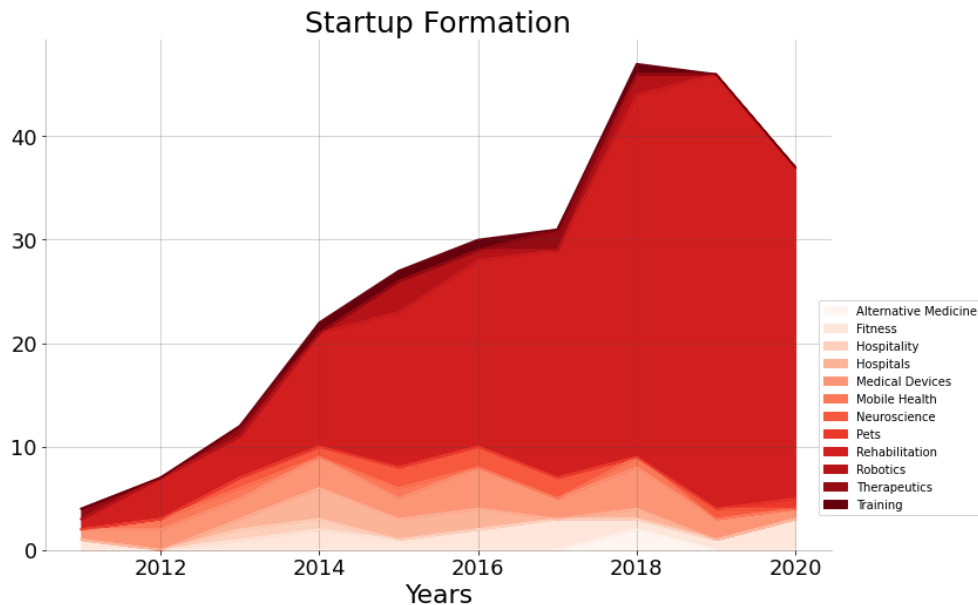
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# Rehabilitation Start-ups

# Rehabilitation

## What new ideas are coming about?

- Core rehabilitation main focus & increasing
- Medical devices, mobile health, robotics etc. seen
- Fitness focus high
- Alternative medicine and various Therapeutics being explored

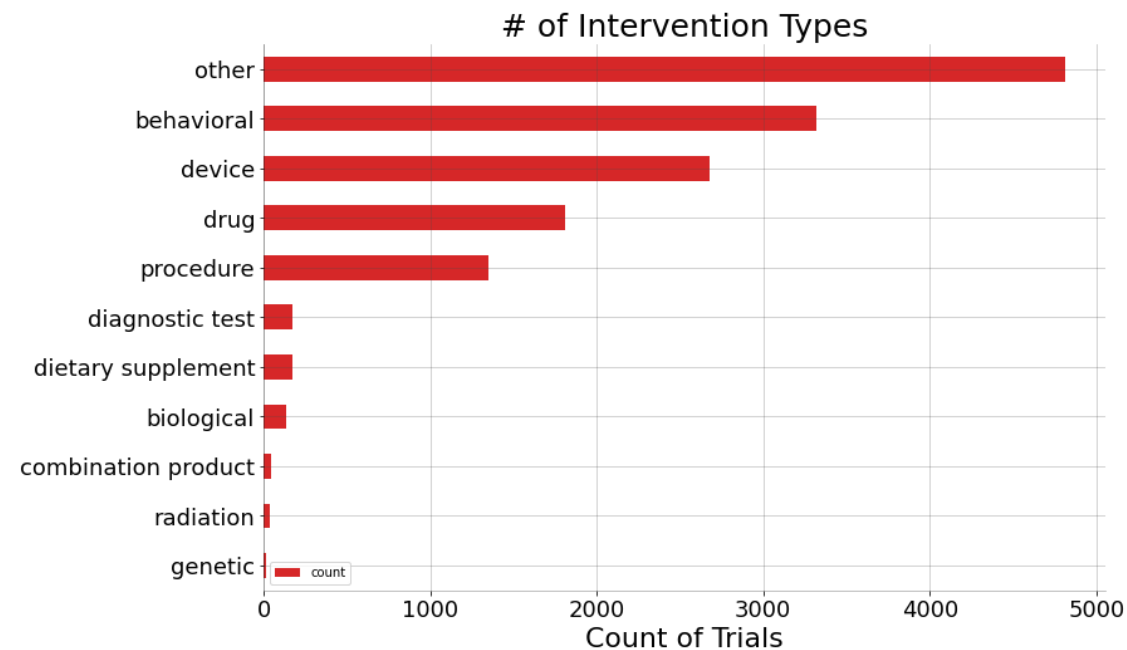
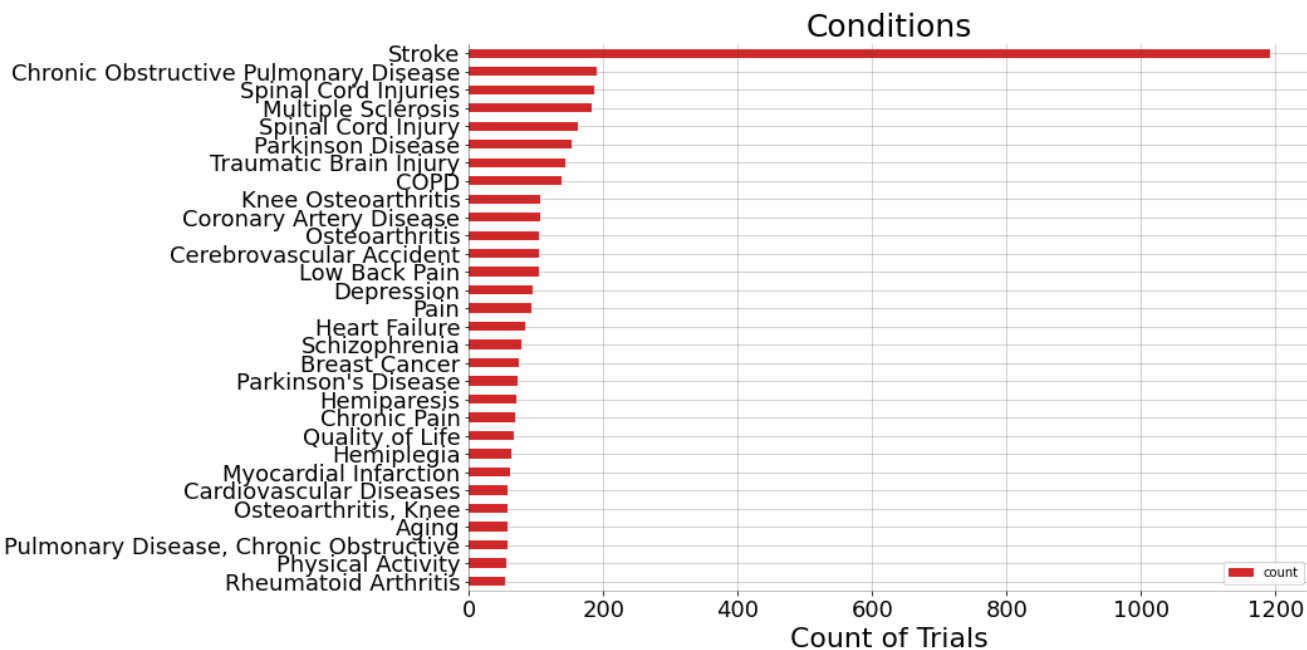


Note: Only few suggestions displayed

# Rehabilitation Interventions

# Rehabilitation

## What conditions are in clinical trials? What intervention types?



# Rehabilitation Summary

- Significant opportunity for technology driven interventions in rehabilitation space
- Aging, Mental Health, lifestyle issues & fitness related trends drive opportunity
- Tele-health, VR, AI, IoT, Mobile enable solutions
- Pandemic pushing urgency

*Mental VR  
Stimulation*

*Gamification*

*Smart Rehab*

*Fitness*

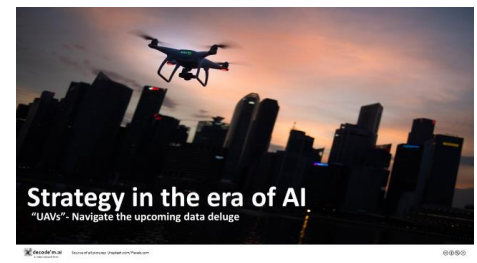
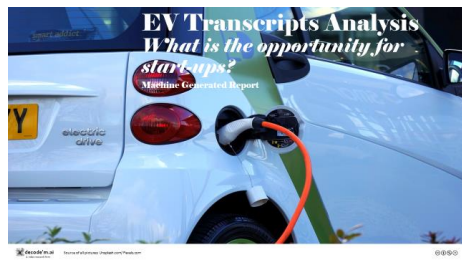
*Virtual Physiotherapy*

*Apps & Smart  
Measurements*

Note: Indicative Not Exhaustive

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