



PACT PT Business Case

March 2023





Table of contents

- 1. Executive summary
- 2. Introduction & background
- 3. PACT PT outcomes
- 4. PACT PT cost evaluation
- 5. Recommendation/Next steps



Executive summary

When a Veteran comes in with a musculoskeletal issue, they often go through a gauntlet of testing and referrals before accessing PT. Lack of timely access to high quality PT results in **poor clinical outcomes, increased healthcare utilization,** and **higher costs.**

PACT PT offers Veterans direct access by **embedding PT into the patient's primary care team**. This model has been proven to **alleviate negative outcomes, improve PT care, and reduce healthcare costs.** Early PACT PT findings at VHA have shown improvements in access, reductions of unnecessary referrals, and high Veteran satisfaction.

The objective of this business case is to demonstrate the **value of PACT PT** for Veterans, employees, and VHA.

Our analysis shows that PACT PT improves:

- Veteran access by decreasing wait times and increasing rural PT availability
- **Veteran outcomes** by getting patients into PT faster, which decreases PROMIS pain scores and often means fewer sessions are needed to reach their goals
- **Employee satisfaction** by reducing burden on PCPs and freeing up their time to focus on co-morbidities
- Cost efficiency for VHA by reducing community care referrals and unnecessary imaging or specialty consults



Bottom Line Upfront: Patient Aligned Care Team Physical Therapy drives improved access, employee satisfaction, and cost savings

Veterans



Improved access

- 31% reduction in wait times¹
- Increases rural access by offering same day PT treatment or PT treatment via VC

Equal or better outcomes

- External research shows early PT is correlated with 89% reduced probability of taking opioids²
- Early access to PT reduces chronicity³

Increased satisfaction – Vsignals as high as 97% for PACT PT (vs. 93% for PACT alone)⁴

PACT RNs and Providers



Improves job satisfaction and retention

On a scale of 1 (strongly disagree) to 5 (strongly agree) employees report PACT PT:⁵

- Improves job satisfaction (4.5)
- Makes them more likely to stay in their role (4.1)
- Allows them to provide patients higher quality care (4.8)
- Allows non-PT providers to spend less time managing patient care for MSK or chronic pain conditions (4.0)



PACT PT drives significant cost savings:

- Contributes to reducing unnecessary imaging and specialty referrals, e.g., at VISN 23 between FY17 and FY20 after PACT PT was implemented¹
 - 77% reduction in imaging
 - 55% reduction in pain referrals
 - 46% reduction in ortho / surgeries
- Can be implemented cost-neutrally⁶
- Breakeven of ~100 community care referrals brought in-house to fund 1 additional PT⁶
- Fewer sessions needed 55% of patients required only 1 session⁷
- Does not adversely impact VERA



- 1. Data provided by VISN 23
- 2. Association of Early Physical Therapy With Long-term Opioid Use Among Opioid-Naive Patients With Musculoskeletal Pain Jama, 2018
- 3. Impact of interprofessional embedding of physical therapy in a primary care training clinic (2021)
- 4 VHA provided data
- 5. PT Embedded in PACT Steering Committee (2023)
- 6. Interviews with stakeholders at sites that implemented PACT PT & Physical Therapy Embedded in PACT (2022) document
- 7. Data provided by the Lake Nona VAMC

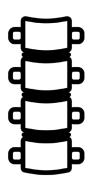
Direct access to PTs through PACT PT drives equal or better patient outcomes than the traditional PCP referral model

PT as a first line treatment is underused

Physical therapists (PTs) play a valuable role in the treatment of neuromusculoskeletal (MSK) conditions

Although PTs can be very effective primary treatment managers of MSK conditions, patients generally first go to a primary care physician (PCP)

Leveraging PT as a first line treatment can free up time for PCPS, allowing them to focus on other conditions

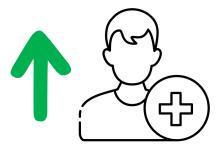


MSK conditions account for **8-18%** of physician office visits.¹

Back pain and arthritis are **2 of the top 10** reasons for primary care visits.²

Earlier access to PT drives equal or better outcomes for patients

- Reduces the time and number of sessions needed for recovery once therapy is started
- 2. Reduces risk of developing long-term disease or experiencing worsening symptoms
- 3. Reduces risk of **reliance on pain medication**
- 4. Increases compliance



...and can **also increase employee satisfaction** for PCPs, nursing staff, and PTs

2. Finley CR, Chan DS, Garrison S, Korownyk C, Kolber MR, Campbell S, Eurich DT, Lindblad AJ, Vandermeer B, Allan GM. What are the most common conditions in primary care? (2018)

PACT PT can drive ~\$2000 in cost savings per patient

Traditional process: 20-30 Days, estimated \$3,000+ 1



Patient presents MSK condition



Patient sees PCP



Provider orders opioids,

imaging, or specialty care

referral



Patient sees PCP again

Patient examined and treated by PT

Patients evaluated by a PCP first are more likely to **get** additional, costly interventions



More imaging



More **procedures** or surgeries



More **specialty** referrals

PACT PT process: Same-day treatment, estimated \$800 ¹



Patient presents MSK condition



Patient sees primary care provider



Patient examined and treated by PT

PACT PT can be implemented **cost neutrally**, and bringing only ~100 community care visits in-house can fund an additional PT hire²

Embedding PACT PT in primary care has the potential to drive up to \$2,200 in cost savings per patient¹



- 1. Bridging the Gap: Embedding Physical Therapists in Primary Care (2020)
- 2. Interviews with VHA leadership at VISNs who have enacted PACT PT

PACT PT increases access by reducing wait times, making PT more convenient in rural areas, and freeing up PCPS

PACT PT has a strong positive impact on Veteran access





Wait times¹: PACT PT reduced wait times for new patient PT visits on average by 31%





Rural access²:

- Same-day PT services increase convenience and compliance by ensuring rural patients don't have to take multiple long trips to various providers before accessing PT
- In addition, VA PT specialists are often able to immediately provide equipment and continue treatment via video conference an option that is rarer in community care provider settings





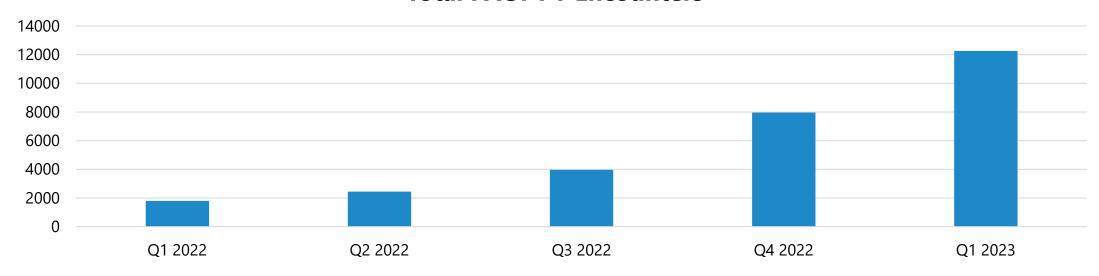
Frees up PCPs and Specialists²:

- **PACT PT frees up a significant amount of PCPs' time,** allowing them to focus on comorbidities and spend more time with each patient
- Improves access to imaging and specialists by decreasing unnecessary referrals



PACT PT has been rapidly scaling within VHA as a result of efficacy and the fact it can significantly reduce costs

Total PACT PT Encounters



Implementation Timeline

HA Innovation Ecosystem

PACT PT is first implemented at the Tampa VA 2008

PACT PT is implemented at the Des Moines VA Medical Center January 2016

National Scaling: 58 adoptions, 43 ongoing adoptions.

~2023~

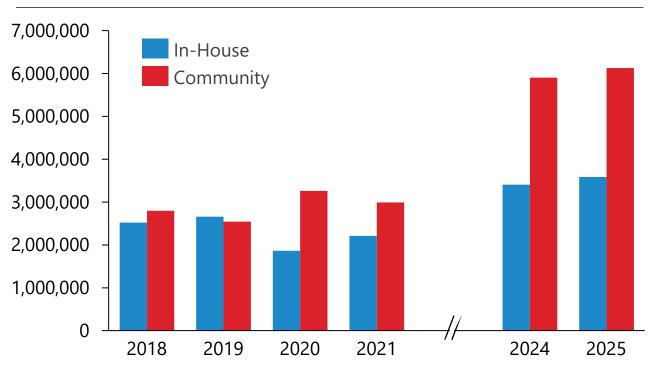


~2023~ Phase 2 to start April 1

> 1. Physical Therapy Embedded Within PACT PT (2022)

This is particularly important as predictions suggest PT needs will increase substantially within the next several years

Historic and projected PT Relative Value Units at VHA ¹



VHA's Enrollment and Forecasting Office predicts:

- An **86%** increase in PT utilization between FY2021 and FY2025
- In the absence of action to build in-house PT resources, most of this increase will be handled by community providers – which cost more than in-house PT



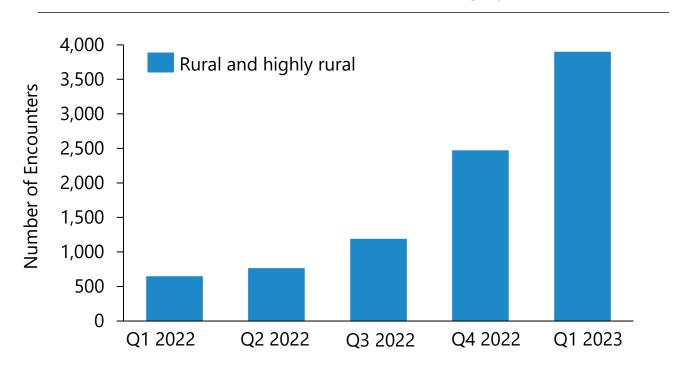
PACT PT Outcomes

- 1 Access to care
- 2 Patient / Employee outcomes
- 3 Healthcare efficiency



1 PACT PT increases timely access in rural and highly areas

National VA PACT PT Encounters in Rural and Highly Rural Areas¹







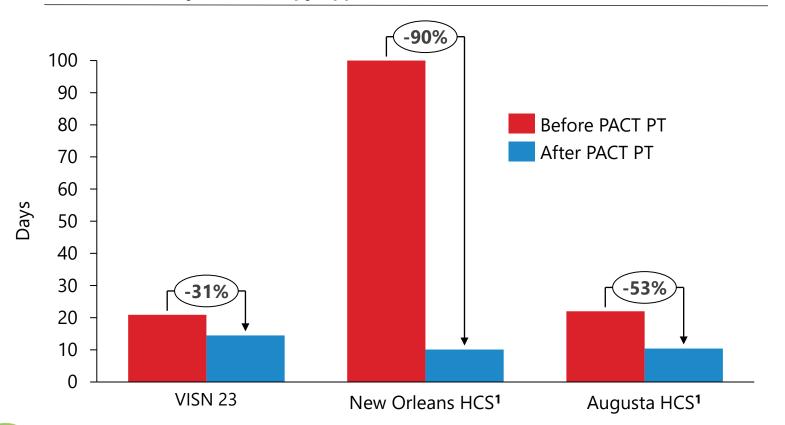
In rural areas, the implementation of PACT PT has created more **timely access to PT**

- The number of encounters in rural and highly rural areas has increased by ~500% from Q1 2022 to Q1 2023
- By increasing the availability of sameday PT care, PACT PT makes it easier for rural Veterans to get care without spending extensive time traveling to and from multiple providers



1 Implementation of PACT PT dramatically reduced wait times for PT with some VAMCs dropping 50-90%

New Patient Physical Therapy Appointment Wait Time



31% reduction

in new patient wait time across VISN 23 between FY16 and FY19

90-day reduction

in new patient wait time at New Orleans HCS

By routing patients directly to PT, PACT PT can also reduce wait times for PCP or specialty consult / imaging visits



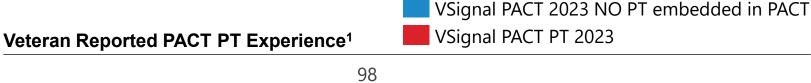
^{*}New Orleans HCS had a high volume of referrals, limited staff, and even more limited due to COVID restrictions locally

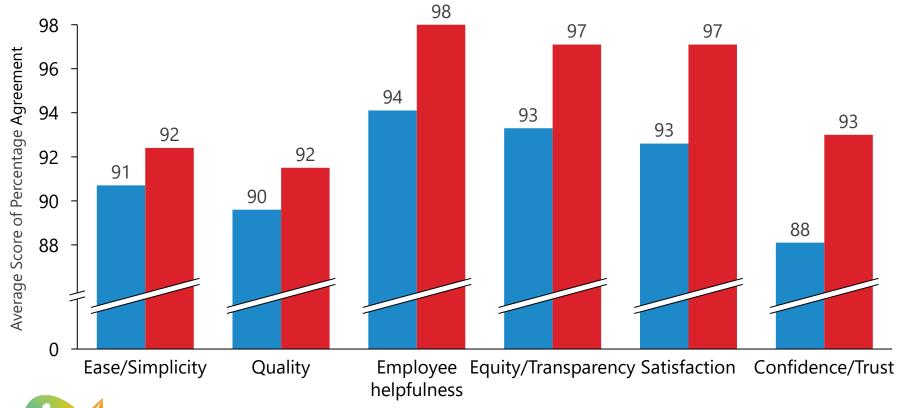
^{*}New Orleans HCS is in VISN 16, and Augusta HCS is in VISN 7.

^{1.} PACT PT National PT Call Update and Cohort 2 (2023)

^{2.} Physical Therapy Embedded in PACT (2022)

11 PACT PT has led to positive Veteran experiences and higher overall satisfaction with care





HA Innovation Ecosystem

Implementation of PACT PT has led to an average 3% increase in VSignal scores across categories relative to PACTs without PT embedded

^{1.} Vsignals Q1 FY2023 (2023)

^{2.} Physical Therapy Embedded in PACT (2020)

Implementation of PACT PT increases access by reducing community care referrals - which often involve significant delays

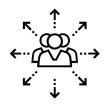
At the Lake Nona VAMC, implementation of PACT PT greatly increased the number of "one and done" PT visits and in-house referrals



55% Evaluated and discharged same visit



43% Referred for PT follow up within Lake Nona VAMC



HA Innovation Ecosystem

Referred to community care

This **often means patients are seen sooner** – as they do not have to go back and forth on scheduling with a community care provider, or navigate long wait lists to be seen

PACT PT Outcomes

- 1 Access to care
- 2 Patient / employee outcomes
- 3 Healthcare efficiency



Research shows direct access to PT results in equal or better patient outcomes

A study within VHA² found that embedding PT into primary care led to:



-= Faster access to PTs and treatment – leaving less time for injuries to worsen



Reduced rates of chronicity – which has also been shown in external studies¹



Decreased **number of discontinued or canceled PT sessions** – suggesting patients are more likely to follow through

In addition, VHA employees at sites with PACT PT report benefits from:



Faster access to medical equipment



Improved handoff and coordination with the Primary Care team



External research has shown patients are less likely to require opioids for pain; limiting dependency, adverse effects, and polypharmacy

External:



One external study³ found that early PT **reduced the probability of having an opioid prescription by:**

~89%

A study of 89K patients found early PT (w/in 90 days)²:

- Significantly reduced probability of opioid use in patients with neck, knee, shoulder or lower back pain
- Among those who used opioids, reduced use by:

~10%

VHA:



In addition, within VHA...

87% of Veterans

saw improvement on their PROMIS 6b Pain Interference measures as a result of PACT PT, indicating a significantly reduced impact of pain¹



PACT PT Outcomes

- 1 Access to care
- 2 Patient / employee outcomes
- 3 Healthcare efficiency



3 External research shows (and anecdotal findings within VHA support) that direct access to PT can reduce the number of PT sessions required

External:

External studies found patients with direct access to a PT (vs. PCP referral-based access) required¹

~ 14% fewer PT sessions

Another found **70% of direct access patients needed only a single therapy session** to meet goals²

VHA:

In addition, at VHA some practitioners report **decreases of 5+ sessions** needed per patient – likely driven by:³



Faster improvements due to earlier access



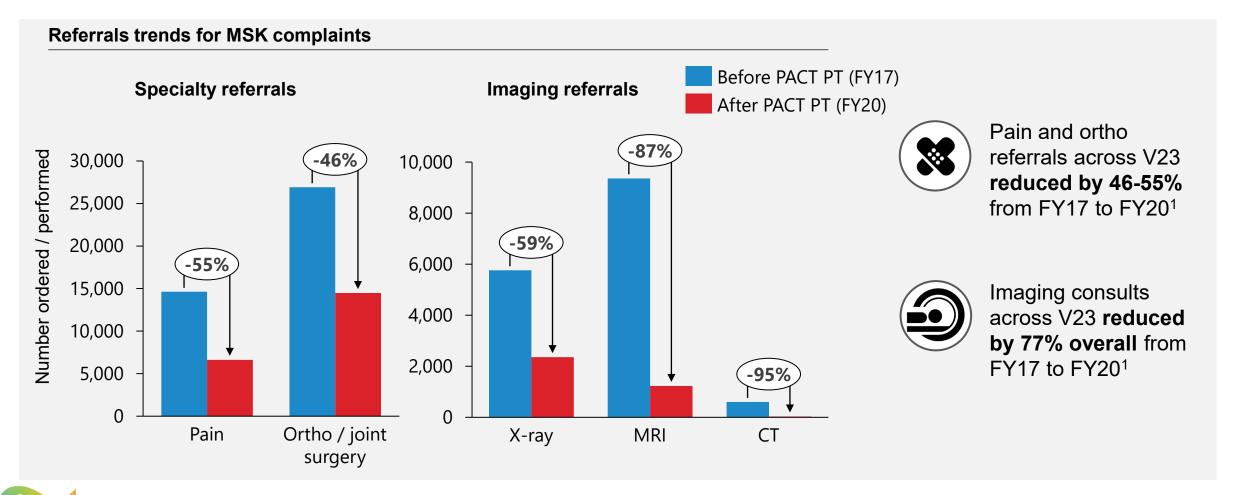
Fewer sessions because unlike community providers, VHA PTs have no financial incentive to recommend the full allowable # of reimbursable sessions if not needed

^{1. &}lt;a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3419881/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3419881/

https://www.jospt.org/doi/10.2519/jospt.2016.6138?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed

^{3.} Interviews from VH leadership at VISNS / sites that have implemented PACT PT

3 PACT PT significantly contributes to reducing pain referrals and imaging consults, increasing efficiency in care management





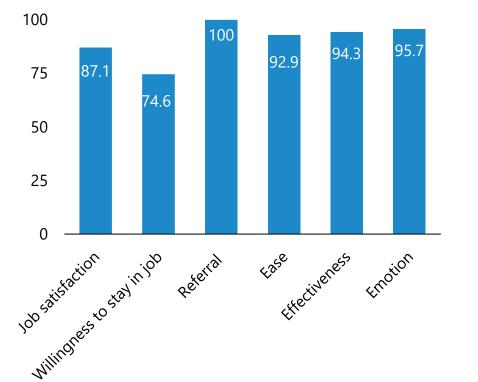
3 PACT PT has led to increased job satisfaction, benefits to retention, and employees feeling they are able to provide better quality care

Employees in PACT PT Reported ESignals*

*Values indicate % of respondents reporting ≥ 4

Scale:





Illustrative questions (specific provider and nursing scores) PACT PT improves my job satisfaction 4.5 I am more likely to stay in my role because of PACT PT 4.1 PACT PT enables me to give my patients higher quality care 4.8 I would recommend the PACT PT program to other VAMCs 4.9 In my PACT we're making the correct referrals at the right 4.5 time for patients Non-PT providers are spending less time managing patient 4.0 care for individuals with MSK or chronic pain conditions PACT PT has led to decrease in the # of MSK related orders 4.3 (imaging, specialty care, equipment, meds)

3 External research and VHA findings have demonstrated embedding PT in PACT is ultimately cost saving

External:

\$1500

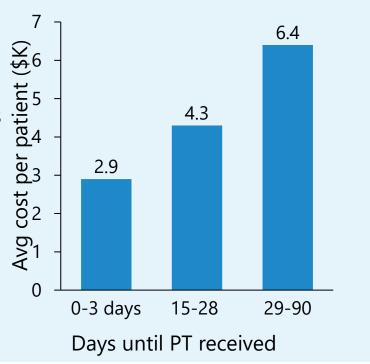
Average cost savings per patient from direct PT access for neck or back pain¹

Driven by reductions in PT sessions needed, imaging, ER visits, surgical referrals, injections etc.

\$250

Average cost savings per patient on direct PT costs²

Cost per patient is significantly higher when access to PT is delayed²



VHA:

Referrals to community care decreased by 620 cases at the Lake Nona VAMC, leading to:



~\$1.5M saved

from reduction in community care referrals for physical therapy ¹ in a single year!



^{1.} https://pubmed.ncbi.nlm.nih.gov/29073842/

3Within VHA, even if new PTs are hired, PACT PT drives savings

PACT PT saves costs by reducing...

Community care visits – breakeven cost to hire a new PT is a reduction of only ~60125 community care PT referrals¹

Given a PT can typically see ~700 unique patients per year, for sites with high volumes of community care PT referrals, cost savings can be significant

Specialty referrals – e.g., at VISN 23, comparing FY17 to FY20 (after implementation of PACT PT)

- X-rays decreased by ~3400
- CT scans decreased by ~560
- MRIs decreased by ~8140
- Pain referrals decreased by ~8010
- Ortho referrals decreased by ~12,440

Which translates to an estimated cost savings of ~\$19M or \$2.1 million per VAMC²

PACT PT can be implemented near-term without new hires, new space requirements, or significant equipment costs – however, as demand for PT increases, in-house staffing will need to increase to match



^{1.} Physical Therapy Embedded in PACT (2022)

^{2.} Calculated using standard cost estimates pre-imaging or specialty referral from VHA, note reductions in imaging and referrals cannot be solely attributed to PACT PT, however, PACT PT is likely a significant contributor.

Recommendations

- 1. Implement PACT PT across all VHA sites focusing first on sites with high rates of community care referrals for PT
- 2. Implement a robust data collection plan to centrally gather outcome and benefit data
- 3. Collaborate with DoD and the private sector to market this work to transform healthcare
- Continue to be thoughtful about empowering PTs within PACT teams, and ensuring high quality "fit"

