NHS Lothian Integrated Musculoskeletal Services and Pathways Programme

Collaborative, Transformational Change in Musculoskeletal, Elective Orthopaedics and Neurosurgical Services - Shifting the Balance of Care

Phil Ackerman¹, Wendy Johnson^{2,} Chris Myers³

¹Clinical Lead Advanced Physiotherapy Practitioner/ MSK Pathways Lead, ²Interim MSK Service Manager EH &SCP, MSK Pathways Lead, MSK Programme Manager, ³ Clinical Services manager Orthopaedics & Neurosurgery

Background

NHS Lothian Integrated Back Pain Service

The care for people with lumbar spine-related symptoms in NHS Lothian was fragmented, inefficient and inconsistent. Secondary care neurosurgery and spinal orthopaedic services were challenged with long waits, low conversion rates to surgery and large volumes of referrals at the lowest end of the complexity spectrum. A collaborative, multi-disciplinary, transformational service change based on the principles of right care, right time, right place, right person was undertaken -The NHS Lothian Integrated Back Pain Service. This work formed part of the NHS Scotland Musculoskeletal (MSK) and Orthopaedic Quality Drive programme

NHS Lothian Integrated Shoulder and Elbow Service and NHS Lothian Integrated Foot and Ankle Service

Elective Orthopaedic shoulder and elbow and foot and ankle service faced similar challenges of long waits, low conversion rates to surgery, and large volumes of low complex cases. Based on successes achieved within the Lothian Integrated Back Pain Service, similar collaborative, multidisciplinary, transformational change was undertaken, supported by the NHS Scotland Musculoskeletal (MSK) and Orthopaedic Quality Drive and now supported substantively by NHS Lothian.

Aim

Deliver high quality, timely, safe and effective care for people with lumbar spine, shoulder and elbow, and foot and ankle conditions. This is underpinned by multidisciplinary pathways and the integration of primary and secondary care services based on right care, right person, right time, right place. Deliver new and enhanced level of primary care based MSK services.

NHS Lothian Integrated Back Pain Service

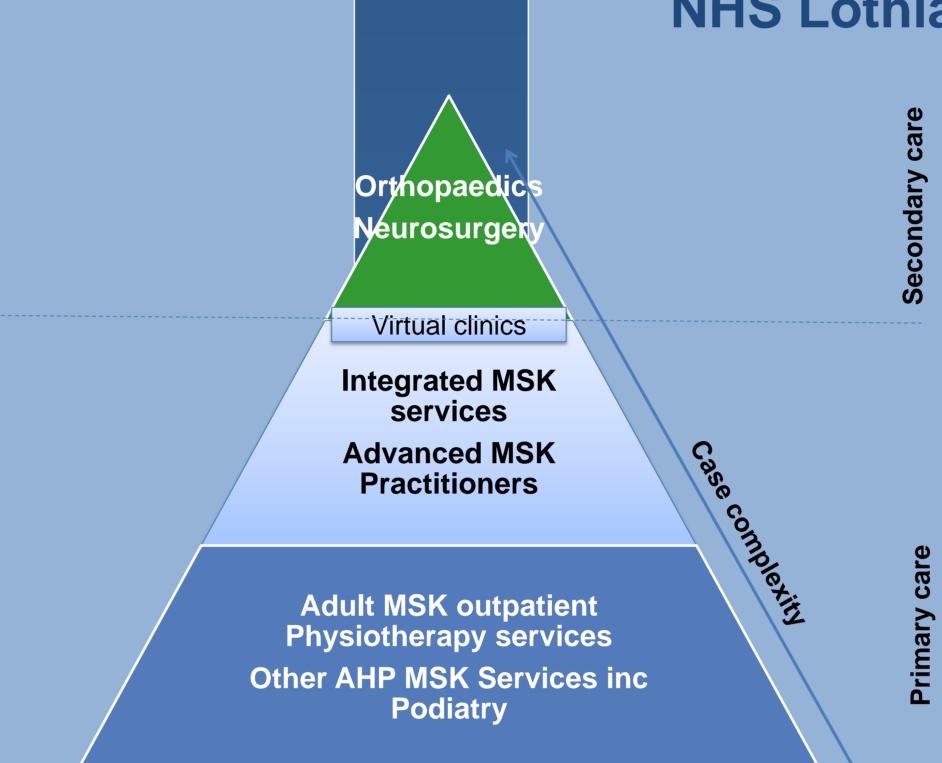
Methods

Strong multidisciplinary consultation, collaboration and co-creation of pathways of care for people with lumbar spine complaints.

Referrals to any level of service triaged based on standardised and agreed criteria, and passed to the appropriate level.

Enhanced level of primary care service with new Spinal Advanced Physiotherapy Practitioner (APP) clinics and new virtual spinal clinics providing access to diagnostics, Neurosurgical Consultant opinion and multidisciplinary management decision-making.

High volume, low complex conditions routed to primary care (includes re-routing appropriate neurosurgical



NHS Lothian Integrated Shoulder & Elbow Service NHS Lothian integrated Foot & Ankle Service

Methods

Proposal for service transformation based on principles of the Integrated back pain service supported by NHS Scotland MSK & Orthopaedic quality drive pump prime resource.

Multidisciplinary steering groups, consultation, collaboration and co-creation of pathways of care for people with shoulder and elbow and foot and ankle conditions.

Orthopaedic referrals re-routed to new enhanced level of primary care service with new Advanced Physiotherapy Practitioners (APP) and Advanced Podiatry Practitioner, based on agreed criteria. Scope of practice includes xray, steroid injection and interventional radiology requests.

referrals to primary care APP clinics).

Underpinned by programme of education, service evaluation, audit and continual improvement incorporating Quality Improvement (QI) methodology. **General Practitioner**

GP APP First contact clinicians



Underpinned by programme of service evaluation, audit and continual improvement, incorporating Quality Improvement (QI) methodology.

Outcomes

Primary car

NHS 24

>170,000 people aged >18 have back pain in any one year period in Lothian¹. ~36,000 people within Lothian consult their GP each year with back pain-related complaint¹.

October 2017- September 2018 11,913 people were referred to NHS Lothian integrated back pain service

96.5% managed in primary care
84% managed in adult MSK Physiotherapy services
14% managed in the Spinal Advanced Physiotherapy Practitioner clinics
2% referred to Neurosurgery
1426 neurosurgical appointments were saved

Since October 2015 4320 neurosurgical appointments saved 31% reduction in number of GP lumbar spine MRI requests



Outcomes

NHS Lothian Integrated Shoulder & Elbow Service

March 2018- April 2019

1268 orthopaedic referrals (high volume, low complex conditions) were re-routed at triage by the orthopaedic team to primary care advanced physiotherapy practitioner clinics under agreed criteria/processes

96% were managed in primary care APP clinics, with 49 referrals onwards to orthopaedics

1592 orthopaedic referrals were added vs 2811 which would have been added prior to this transformative service redesign NHS Lothian Integrated Foot & Ankle Service

March 2018- April 2019

878 orthopaedic referrals (low complex conditions) were re-routed at triage by the orthopaedic team to primary care advanced physiotherapy practitioner/ advanced podiatry clinics under agreed criteria/processes

91% were managed in primary care APP clinics, with 71 referrals onwards to orthopaedics

1549 orthopaedic referrals were added vs 2356 which would have been added prior to this transformative service re-design -



Full service evaluation and audit published in annual report

Shifting the balance of care

Conclusion

Collaborative working between primary and secondary care has delivered transformational change in service delivery for people with lumbar spine-related complaints in Lothian. Care is timely, and in the vast majority of cases provided close to home in the primary care setting. This has reduced demand on specialist secondary care Neurosurgical services, facilitating more timely care for high complex and surgical cases. The balance of care has shifted consistent with the principles of right care, right person, right time, right place **1219** orthopaedic referrals saved – orthopaedic returned to demand/capacity balance

Shifting the balance of care

807 orthopaedic referrals saved – orthopaedic returned to demand/capacity balance

Shifting the balance of care

Conclusion

Collaborative working between orthopaedics and primary care AHP MSK services has delivered transformational change in service delivery. Enhanced level of primary care MSK services managing the high volume, lower complex cases reduces demand on orthopaedics, facilitating more timely care for more complex and surgical cases. The balance of care has shifted consistent with the principles of right care, right person, right time, right place

References

Ackerman, P., Johnson, W (2019) NHS Lothian integrated back pain service- annual report NHS Scotland (2011) Spinal Services Review Group ¹https://www.arthritisresearchuk.org/arthritis-information/data-and-statistics/musculoskeletal-calculator.aspx <u>Phillip.ackerman@nhslothian.scot.nhs.uk</u> <u>Wendy.Johnson@nhslothian.scot.nhs.uk</u>