MUSCULOSKELETAL CONDITIONS AND THEIR CARE

The term “musculoskeletal conditions” includes all conditions that affect the bones, joints, periarticular structures and muscles such as arthritis of all kinds, systemic disorders of connective tissue, back pain, bone diseases such as osteoporosis, soft tissue rheumatism, and regional and widespread pain. There are many possible causes such as mechanical problems, injuries such as at work or leisure, age-associated changes or inflammatory diseases. Some are self-limiting, but many are often recurrent or chronic and some can be life threatening. They are the most common causes of physical disability. Although a large number of these conditions are confined to the musculoskeletal system, many also affect other organ systems making their management complex.

They have an enormous socioeconomic cost, the greatest burden coming from back pain, osteoarthritis and rheumatoid arthritis. Most of the costs are indirect relating to social care, pensions and workers’ compensation. The burden can be reduced by a bone and joint healthy lifestyle,1 by identifying and managing in a timely way those at high risk or with the earliest features of a musculoskeletal problem. Effective management of someone with an established musculoskeletal condition can also reduce the burden on the individual and society.

The effective management of musculoskeletal conditions requires integrated coordinated multidisciplinary, multiprofessional care focused around the needs of the individual. For many people with musculoskeletal conditions, this can be provided in the community and in primary care, but many will also need the diagnostic and management expertise of a specialist in secondary care supported by appropriate facilities and services.

BURDEN OF MUSCULOSKELETAL CONDITIONS IN EUROPE

Musculoskeletal conditions are common and their effect is pervasive. They are the most common cause of severe long-term pain and physical disability. They significantly affect the psychosocial status of the individuals with the condition as well as their families and carers.1 7 They are a major burden on health and social care. In Europe, 20–30% of adults are affected at any one time by musculoskeletal pain.4,6 The World Health Organization (WHO) Global Burden of Disease Monitoring Programme has identified osteoarthritis as one of the top ten causes of disability for countries within the European Union and back pain as a major cause of work incapacity.7 8 Using disability adjusted life years, osteoarthritis is the fourth most frequent predicted cause of problems worldwide in women, and the eight in men.7 There is a 40% lifetime risk of fracture for women >50 years in Europe and the burden of osteoporosis is increasing with increased life expectancy.10 Two in five people with a musculoskeletal problem are limited in their everyday activities.11 Musculoskeletal conditions, excluding trauma, represent almost 25% of the total cost of illness in European countries.12 Musculoskeletal conditions are the second most common reason for consulting a doctor, and in most countries constitute up to 10–20% of the primary care practice.13 One in five of all Europeans are under long-term treatment for...
Strategies for the prevention and treatment of musculoskeletal conditions

The European Action Towards Better Musculoskeletal Health has developed evidence-based strategies to prevent musculoskeletal problems and to ensure that people with musculoskeletal conditions enjoy a life with fair quality as independently as possible.

The strategies bring together the evidence-based interventions that have been identified for the different musculoskeletal conditions. They are based on a review of the evidence from existing guidelines and systematic reviews, along with the opinion of experts from across Europe in the areas of rheumatology, orthopaedics, trauma, public health, health promotion and policy implementation. In addition, the views of people with musculoskeletal conditions have been taken into account. The strategies are aimed at: the whole population to prevent these conditions where possible; those individuals at highest risk of developing these conditions; and those who already have these conditions to reduce the impact that they have on them.

The strategies focus on commonality of recommendations that will maintain or improve musculoskeletal health whatever the underlying condition. In addition, they combine what can be achieved from evidence-based interventions with what those with musculoskeletal conditions, their carers and representatives; and healthcare providers want to achieve. The full report, which includes the supporting evidence for these recommendations, is available at http://europa.eu.int/comm/health/ph_projects/2000. The recommendations are detailed below.

**Strategies for the whole population**

Everyone is at risk of developing musculoskeletal conditions, but to reduce the enormous effect on the quality of life of individuals and socioeconomic effect on society related to musculoskeletal conditions, people at all ages should be encouraged to follow a bone and joint healthy lifestyle and to avoid the specific risks related to musculoskeletal health. This means:

- Physical activity to maintain physical fitness
- Maintaining an ideal weight
- A balanced diet that meets the recommended daily allowance for calcium and vitamin D
- The avoidance of smoking
- The balanced use of alcohol and avoidance of alcohol misuse
- The promotion of accident prevention programmes for the avoidance of musculoskeletal injuries
- Health promotion at the workplace and related to sports activities for the avoidance of abnormal and overuse of the musculoskeletal system
- Greater public and individual awareness of the problems that relate to the musculoskeletal system. Good quality information on what can be done to prevent or effectively manage the conditions and the need for early assessment. These measures will improve the musculoskeletal health of the population. Their modification will also have many other health benefits, as they are risk factors for other conditions, mainly chronic, such as cardiovascular disease.

**Strategies for those at risk**

Those at greatest risk must be identified and encouraged to take measures to reduce their risk. This should be on a background of being encouraged to follow a healthy lifestyle and to avoid the specific risks related to musculoskeletal diseases. This requires a case finding approach for the different musculoskeletal conditions to identify those individuals most at risk who will benefit most from evidence-based interventions.

**Strategies for those with early features of musculoskeletal conditions**

Those with the earliest features of a musculoskeletal condition should receive an early and appropriate assessment of the cause of their problem. Once their needs have been identified, they should receive early and appropriate management and, in addition, education in the importance of self-management. This

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### Table 1 Incidence of musculoskeletal diseases in males according to age

<table>
<thead>
<tr>
<th>Condition</th>
<th>0–15</th>
<th>16–24</th>
<th>25–44</th>
<th>45–64</th>
<th>65–74</th>
<th>≥75</th>
<th>All ages</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflammatory arthritis</td>
<td>8</td>
<td>13</td>
<td>25</td>
<td>45</td>
<td>49</td>
<td>64</td>
<td>32</td>
<td>6</td>
</tr>
<tr>
<td>Ankylosing spondylitis</td>
<td>1</td>
<td>16</td>
<td>23</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>12</td>
<td>7</td>
</tr>
<tr>
<td>Gout</td>
<td>–</td>
<td>10</td>
<td>360</td>
<td>910</td>
<td>1500</td>
<td>1480</td>
<td>760</td>
<td>4</td>
</tr>
<tr>
<td>Systemic lupus erythematosis</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Scleroderma</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>0.1</td>
</tr>
<tr>
<td>Osteoarthritis</td>
<td>–</td>
<td>70</td>
<td>400</td>
<td>2670</td>
<td>4520</td>
<td>5350</td>
<td>1970</td>
<td>3</td>
</tr>
<tr>
<td>Backpain</td>
<td>290</td>
<td>1860</td>
<td>3680</td>
<td>4550</td>
<td>3940</td>
<td>4220</td>
<td>3684</td>
<td>2</td>
</tr>
<tr>
<td>Soft tissue rheumatism</td>
<td>910</td>
<td>1640</td>
<td>3360</td>
<td>5740</td>
<td>5830</td>
<td>5540</td>
<td>4100</td>
<td>1</td>
</tr>
<tr>
<td>Hip fracture</td>
<td>–</td>
<td>7</td>
<td>13</td>
<td>41</td>
<td>184</td>
<td>602</td>
<td>68</td>
<td>5</td>
</tr>
</tbody>
</table>

*Childhood arthritis.

Estimates for a Caucasian European population derived from studies in Europe and North America.®
requires methods to ensure that those who have the earliest features of the different musculoskeletal conditions are assessed by someone with the appropriate competency and that the person should have timely access to care that is appropriate to their needs. This should be on a background of enabling people to recognise the early features of musculoskeletal conditions and to know what to do, either managing the problem themselves or knowing when to seek appropriate professional help. In addition, people should be enabled to access the skills necessary to manage and take responsibility for their own condition in the long term and to be able to lead full and independent lives.

**Strategies for those with established musculoskeletal conditions**

Those with a musculoskeletal condition—that is, those who have pain, impairment of function and limitation of activities and restriction of participation—should have fair opportunity of access to appropriate care, which will reduce pain and the consequences of musculoskeletal conditions, with improvement in functioning, activities and participation. Most outcomes are best achieved with good pain management, disease management and rehabilitation. These outcomes should be achieved in the most cost effective way possible for the appropriate environment.
This should be on a background of enabling people to recognise the early features of musculoskeletal conditions and to know what to do, either managing the problem themselves or knowing when to seek appropriate professional help. In addition, people should be enabled to access the skills necessary to manage and take responsibility for their own condition in the long term and to be able to lead full and independent lives.

Implementation of these strategies requires access to resources.

**WHAT HEALTHCARE SERVICE IS NEEDED FOR PEOPLE WITH MUSCULOSKELETAL CONDITIONS?**

The healthcare needs of people with musculoskeletal conditions have been identified in the European Action Towards Better Musculoskeletal Health report and services are required to implement these recommendations.

The aspirations of those with musculoskeletal conditions have been expressed in the People with Arthritis/Rheumatism in Europe (PARE) manifesto. (http://www.paremanifesto.org/)

People with a musculoskeletal condition require a continuum of health services that includes all levels, from the community in which they live, primary and secondary care; they will also sometimes need access to specialist tertiary care. The expertise and facilities required will increase from level to level. Services need to centre on the needs of the individual with the musculoskeletal condition.

These multidisciplinary and multiprofessional services need to be coordinated and integrated so that the management of a musculoskeletal problem is seamless. It is important that, to achieve the best outcome for the individual, a musculoskeletal problem is assessed and managed by the appropriate level of expertise. The management of any problem needs to be centred on the needs of the individual with the musculoskeletal problem.

Those with any of the different musculoskeletal conditions, at any stage from the earliest features, should be assessed and managed by someone with the appropriate competency and have timely access to care that is appropriate to their needs (equity). Timely access for those with the earliest features of a musculoskeletal condition is most important to minimise the associated morbidity. People should be enabled to gain the skills necessary to take responsibility for their own musculoskeletal condition in the long term, make informed choices and be able to lead full and independent lives through access to high quality information so that they can develop and maintain an informed dialogue with health and social care professionals and through self management programmes/expert patient groups.

People with musculoskeletal problems and conditions usually have limitation of activities and restricted participation and there is a need for access to appropriate rehabilitative services as well as to support in the community at home, in education, at work and in leisure pursuits to enable them to live as fully independent lives as is possible. Public health services need to encourage a bone and joint healthy lifestyle. There should be programmes to: maintain physical activity; avoid obesity or excessive thinness; encourage healthy eating; discourage smoking and excess alcohol; and avoid injuries or abnormal use at leisure or in the workplace. The importance of these in musculoskeletal health needs to be recognised.

Primary care needs to understand the needs of people with musculoskeletal problems and conditions and be able to identify and manage problems appropriately. This may require referral for the support of specialist services.

Secondary care services need to be accessible to support primary care in the management of various musculoskeletal problems and for dealing with potentially progressive, more complex or serious musculoskeletal conditions such as rheumatoid arthritis or connective tissue diseases and their complications. Management may be pharmacological, surgical or rehabilitative. Special investigations may be required.

Tertiary care services are needed for the management of the less common musculoskeletal conditions or for less common interventions, such as for juvenile idiopathic arthritis, complex connective tissue diseases or severe vasculitis. The human and physical resources should provide timely access for the patient
to the appropriate level of expertise of care, appropriate methods of assessment and appropriate treatments.

The facilities for providing care for people with musculoskeletal conditions must be physically accessible, allowing for any difficulties they may have. Standards of care need to be based on the evidence of best practice and outcome. People with musculoskeletal conditions should have access to healthcare professionals who are managing musculoskeletal conditions in an evidence-based way through appropriate training, motivation and by maintaining competency. Good facilities for training followed by continuing professional development is required. A rheumatology service is core to the wide range of health and social services that are required by people with musculoskeletal conditions.

WHAT SERVICES SHOULD A RHEUMATOLOGY CENTRE PROVIDE TO MEET THESE NEEDS?

Rheumatology is that branch of medicine concerned with all medical aspects of musculoskeletal conditions. This term includes systemic disorders of connective tissue, inflammatory arthritis, osteoarthritis (arthrosis), spinal problems, soft tissue (non-articular) rheumatism and regional pain syndromes, and non-traumatic bone disorders.

A rheumatologist is a specialist medical practitioner who has been recognised by the National Authority as having completed postgraduate training leading to theoretical and practical knowledge, professional competence and skills to diagnose, manage symptoms (eg, pain and disability) and diseases, rehabilitate and prevent musculoskeletal conditions. They will maintain their competency through continuing professional development. They have a lead role in developing and managing clinical services for those with musculoskeletal problems that is pivotal for the provision of high standards of care.

A rheumatologist should work closely with primary care and within an integrated coordinated multidisciplinary, multiprofessional team (vide infra) focused around the needs of the individual with a musculoskeletal condition. In particular, they will work closely with orthopaedics. A rheumatology centre should provide the human and physical resources that make available a service for the diagnosis, management and rehabilitation that meets the needs of patients with any of the wide range of musculoskeletal conditions. It may be a physically distinct unit or may operate by the integrated working of the core members with access to the core facilities (see under resources of a rheumatology centre). Some rheumatology Centres are more focused on particular musculoskeletal conditions, such as inflammatory joint disease or connective tissue diseases. Some centres are closely linked with internal medicine and others with physical medicine/rehabilitation. This varies both within and between countries. A rheumatology centre will, however, work with others who may manage different aspects of musculoskeletal conditions to ensure there are appropriate services for all people with any such problem.

The broad philosophy of management is to relieve pain, to maintain function, to control diseases when possible and to reverse or minimise disability and its consequent handicaps. There are now effective interventions to control symptoms, the disease process and minimise disability for many musculoskeletal conditions.

Assessment and management of musculoskeletal conditions is predominantly outpatient based. It requires a coordinated, integrated, multidisciplinary and multiprofessional approach and access to this is essential. Access to inpatient facilities, however, is also essential for management of the more serious complications, for surgery and for rehabilitation of the severely disabled. The provision of services needs to be sufficient to provide timely access to care and consider the evidence that early effective interventions improve the outcome for the patient.

Referral patterns to rheumatology centres

The services of a rheumatology centre must be appropriate to meet the needs of its caseload. The referral pattern to rheumatology centres varies across and within European countries dependent on the roles and competency of different health professionals in the assessment and management of musculoskeletal conditions and methods of access to them. In general, referrals fall into 3 categories:

1. Patients with short term problems that benefit from specific treatment or procedures: these problems, such as regional pain syndromes, although associated with significant pain and disability, respond well to the treatments available from a rheumatology service. Early treatment is associated with a better prognosis, so prompt access is important.

2. Patients requiring diagnosis, assessment, advice or counselling: these patients have chronic disorders which, with appropriate advice to the primary care doctor, can be managed in the community. Examples include osteoarthritis, gout, fibromyalgia and back pain. It is important to establish the diagnosis, assess the impact on the patient, counsel them and communicate effectively with the primary care doctor. They may need further assessment and treatment, including rehabilitation services, if the problem worsens or changes.

3. Patients with potentially progressive musculoskeletal conditions: these patients with inflammatory joint disease, autoimmune disorders and other chronic progressive diseases require close supervision to ensure the best outcome of treatment. This requires early diagnosis and treatment, expert monitoring and/or long-term follow-up and management by a multidisciplinary and multiprofessional team to ensure optimal disease outcome. Complications may require prompt access to local facilities and inpatient care. As many of these disorders are both progressive and multisystem, they are best managed by ‘shared care’ with primary care.

Expertise/competencies required

A rheumatology centre should provide access to a service that is multiprofessional and multidisciplinary including specialist medical care (rheumatologist), nursing care, physiotherapy and ergotherapy/occupational therapy. There needs to be an integrated approach to working and decision making between members of the team. A close working relationship needs to be established with other disciplines and professional groups who are caring for patients with musculoskeletal disorders or whose competencies are often needed for the management of musculoskeletal conditions. Many patients with severe musculoskeletal disorders will require medical, surgical and rehabilitative treatment at some stage in their disease.

As there is such a wide spectrum of musculoskeletal conditions, rheumatologists may develop special interests and it is usual for several to work together in centres and between them cover the spectrum of conditions. The level of working relationship with the different disciplines and professions may vary between centres.

Core members of a multidisciplinary multiprofessional team (those mainly committed to the management of those with musculoskeletal conditions and who need to interact closely with other members of the team to optimise management) include:

www.annrheumdis.com
Rheumatologists
• Specialist nurse(s)
• Specialist physiotherapist(s)
• Specialist ergotherapist/occupational therapist(s)
• Psychologists
• Social workers
• Orthotists
• Podiatrists
• Pharmacists
• Dieticians
• Patient educator (this may be a role of the specialist nurse or another team member)

*A specialist therapist means that they have developed additional competencies to have expertise in the management of musculoskeletal conditions.
If they are not members of the multidisciplinary team, then easy access is required to their services.

Services that are core to the management of people with musculoskeletal conditions are

• Imaging—plain x ray, CT scan, MRI, scintigraphy and diagnostic ultrasound
• Clinical and surgical pathology (includes biochemistry, haematology and immunology laboratory resources)
• Polarising light microscopy
• Bone densitometry
• Neurophysiology

Some of these services may be provided by the rheumatology centre. The rheumatology service will often need to draw on the skills of other disciplines and professions. Close established working relationships are needed with (ie, specialties that work closely with the rheumatology centre and may share care or undertake combined clinics)

• Orthopaedic surgery
• Hand surgery
• Spinal surgery
• Specialised rehabilitation services (ie, vocational rehabilitation)
• Clinical immunology
• Interventional radiology/nuclear medicine
• Pain clinic/pain management programmes
• Dermatology.

Other disciplines often needed for the management of people with musculoskeletal conditions (ie, specialties that need to be readily accessible from the rheumatology centre)

• Nephrology
• Neurology
• Neurosurgery
• Obstetrics
• Vascular surgery
• Gastroenterology
• Cardiology
• Pulmonology
• Ophthalmology
• Haematology
• ENT/oto-rhino-laryngology
• Psychiatry

Systemic complications and manifestations of musculoskeletal conditions may occur that will require the facilities of a general hospital including intensive care.

There should also be relationships with patient and professional organisations.

**What a rheumatology service should be expected to offer**
The following are intended to provide guidance as to how a rheumatology centre should provide a service for the community with musculoskeletal conditions and its local primary care doctors:

1. Timely access to expert assessment and diagnosis of musculoskeletal problems and conditions, including access to diagnostic facilities as required.
2. Timely access to expert management of musculoskeletal problems and conditions, including access to members of the multidisciplinary, multiprofessional team as appropriate.
3. Access to investigative methods such as: joint aspiration and examination of synovial fluid; bone densitometry; diagnostic ultrasound; electromyography; arthroscopy; capillaroscopy; disc aspiration and biopsies as appropriate.
4. Access to therapeutic techniques such as: joint or soft tissue injections; non-surgical synovectomy; epidural and regional nerve blocks; manipulation and mobilisation techniques; intervertebral disc injection or nucleolysis.
5. Expert monitoring of musculoskeletal conditions to ensure optimal management. This should include the use of databases or registers. Protocols should be provided if the monitoring is to be shared between secondary and primary care.
6. Education, counselling and support of those with musculoskeletal conditions to enable them to manage their own problems and to make informed decisions about there care. This should include access to high quality educational material, educational sessions, a telephone helpline, self-management programmes or expert patient groups.
7. Provision of emergency expert support at all times through either telephone advice or rapid hospital assessment when emergencies or urgencies occur.
8. Access to a team skilled in the management and rehabilitation of musculoskeletal conditions—for example, physiotherapists, ergotherapists/occupational therapists and orthotists.
9. Agreed protocols for the shared management with general practitioners of more serious and progressive arthritic disorders.
10. Access to appropriate inpatient facilities, with skilled nursing and other professional support, for the treatment of severe complications and rehabilitation of the seriously disabled.
11. Effective and close collaboration with other disciplines and professions who are closely involved in the management of people with musculoskeletal conditions, such as orthopaedic surgery. This may involve shared care and/or combined clinics.
12. Effective and regular communication with general practitioners to ensure safety and efficiency of ongoing management and shared care of the individual with a musculoskeletal condition.
13. Speciality clinics for the management of less common, but severe or complicated disorders such as connective tissue diseases or paediatric rheumatology. Depending on local...
needs, it may be more appropriate for these to be provided at a tertiary level.

14. An effective educational service to facilitate continuing professional development of other health professionals, such as primary care doctors, to keep them aware of developments in diagnosis, management and understanding of disease processes.

15. Access to self-management programmes and patient support groups.

16. To ensure it is providing high standards of care by participating in a quality assurance programme.

RESOURCES OF A RHEUMATOLOGY CENTRE

A rheumatology centre should provide easy access to the core services that are required. The following facilities are therefore necessary to provide a high quality rheumatology service as described.

Clinical facilities

Sufficient space is required to facilitate all the expected activities of a rheumatology centre (see previous section). In particular, there needs to be sufficient space for consultations by all members of the team, including patient education and counselling. There should be a dedicated and private phone line for providing patient support. There also needs to be a clean area for injections and infusions.

Outpatient facilities

Most of the rheumatology care is provided in an outpatient setting by a specialist rheumatology multidisciplinary and multiprofessional team. Clinics may take place within a general outpatient department or a dedicated rheumatology centre. The advantages of a dedicated unit are flexibility and the availability of a dedicated team and specialist facilities.

Day case facilities

Day case facilities are often required for the assessment and investigation of complex problems and/or for interventions such as multiple joint injections, epidural injections, cytotoxic and biological drug infusions. The requirement for such facilities has increased with the trend from inpatient to outpatient care.

Inpatient facilities

Many patients with complex musculoskeletal problems such as rheumatoid arthritis or connective tissue disorders will require inpatient care as a direct consequence of their disease at some stage. The medical care should be directed by the rheumatologist during that admission.

Inpatient facilities should be appropriate for patients with all levels of physical disability, including items such as bath aids, showers, cutlery and bedding. Adequate day room facilities are essential. The nursing and allied professional staff (eg, physiotherapists, ergotherapists/occupational therapists and social workers) should be appropriately trained in and ideally dedicated to rheumatology. It is therefore most effective for rheumatology beds to be located together and not dispersed.

The siting of inpatient facilities varies. As many of these patients are ill with multisystem diseases, inpatient facilities within an acute general hospital offer the widest spectrum of cross-consultative skills and investigative resources.

Treatment and rehabilitation facilities

Many patients will require physiotherapy, hydrotherapy/balneotherapy or ergotherapy/occupational therapy and these facilities need to be available within or in close proximity to the rheumatology centre.

Personnel

Personnel levels need to be appropriate in skill mix and sufficient to enable the effective delivery of timely care and the use of the facilities of the rheumatology centre.

Specialist clinics

Specialist or combined outpatient clinics may be organised to meet specific clinical needs, such as paediatric rheumatology or rheumatology/orthopaedic surgery.

Access

Physical access to the facilities of the rheumatology centre should not be a barrier to anyone with a musculoskeletal condition. Car parking, lifts, doors, seating and toilets should all be appropriate to enable access by people with physical disabilities.

Patient information

Patient information literature (printed or on web) should be displayed and available to patients, along with contact names and addresses of the organisers of local groups.

Other facilities

Appropriate facilities need to be available for any of the other specific services that the rheumatology centre is providing, such as diagnostic ultrasound, bone densitometry, imaging-guided injections or biopsies. Polarising light microscopy must be available, either within the department or a service provided by the laboratory service.

Postgraduate and continued medical training

There should be a programme within the rheumatology centre for the continuing professional development of all clinical staff. There should be the opportunity for clinicians to discuss cases and their management.

Centres must have convenient access to appropriate postgraduate facilities and a library that stocks and/or has full text web access to the major rheumatology textbooks, the leading rheumatology journals, appropriate rehabilitation journals and specialist non-medical journals. These facilities should be accessible beyond the 9 to 5 working day. Seminar room space, with relevant audiovisual aids should also be available. Adequate clinical space should be available to facilitate training by several doctors working together in clinics and teaching clinics.

Management infrastructure

Good secretarial and administrative support is essential to the effective running of a rheumatology centre. This is central to maintaining good communication within the centre and also with referring clinicians and with patients. There is a need to coordinate care between the multidisciplinary, multiprofessional team. There should be clinical databases or registers that need to be maintained. The medical secretary/clerical officer is therefore integral to the organisation of a department. They need an understanding of the problems and needs of people with musculoskeletal conditions. They require appropriate facilities such as a direct telephone, fax line, email and computer with relevant software. They are best sited within the department. The rheumatology centre will also require managerial support for the efficient delivery of care.

QUALITY STANDARDS

It is important to be able to ensure that a high quality service is being provided and all rheumatology centres should be involved in quality assurance. Several indicators can be used:
MAINTAINING AND IMPROVING STANDARDS OF CARE

Education

As musculoskeletal conditions are so common and the major cause of physical disability, there is a need for greater awareness and competency among all health professionals about the management of musculoskeletal conditions, in particular primary care. A rheumatology centre should therefore be involved in the provision of education to the spectrum of other relevant health professionals, giving a differentiation of current thinking in the understanding and treatment of those disorders to primary care teams in particular. This should include undergraduate medical students, if locally appropriate.

If the rheumatology centre is a training centre for rheumatologists, then it needs to meet the requirements of the European Union of Medical Specialists charter on training of medical specialists in the European Union.11

Research

There is still the need for greater knowledge about causes, effects and management of musculoskeletal conditions. All rheumatology centres should therefore contribute to research in some way.

CONCLUSION

Musculoskeletal conditions including arthritis of all kinds, connective tissue diseases, back pain, bone diseases such as osteoporosis, soft tissue rheumatism and regional and widespread pain, can now be effectively prevented and treated providing there is access to current agreed standards of care and modern treatments. This requires integrated coordinated multidisciplinary, multiprofessional care focused around the needs of the individual. The rheumatology service is central to providing these services, which involve all levels of health and social care. This document states how a rheumatology service can meet these expectations to ensure delivery of the highest standards of care to people with musculoskeletal conditions.

Competing interests: None declared.

REFERENCES


APPENDIX

MEMBERS OF THE EUROPEAN UNION OF MEDICAL SPECIALISTS SECTION OF RHEUMATOLOGY/EUROPEAN BOARD OF RHEUMATOLOGY 2006

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