Version Five Updated August 2016, with 2014/15 HRG Codes







Contains seven new clinical scenarios

Directory of Ambulatory Emergency Care for Adults

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Previous version September 2014

Ambulatory Emergency Care Network

NHS Elect Suite 1 Adam House 7-10 Adam Street LONDON WC2N 6AA

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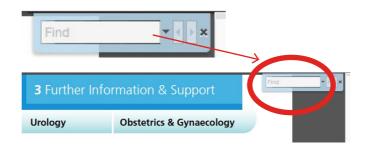
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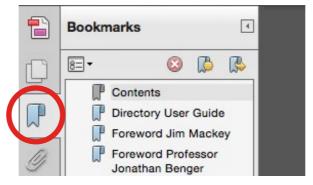
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Foreword



One of the key pressures in emergency services is managing increasing demand. Traditionally once a quick assessment is made emergency patients are admitted to hospital to receive diagnostics and treatment.

The Ambulatory Emergency Care approach explained in this guide describes a model where systems are redesigned to provide same day emergency care. This means about a third of admitted patients are seen, diagnosed, treated and discharged same day to continue their treatment at home or in a community setting, leaving admission to a hospital bed reserved only for very sick patients. As part of the A&E Plan for 2016/17, we are mandating a number of priorities to enhance the quality of patient care; a key element of the plan is the implementation of ambulatory emergency care. A requirement of the plan is that all acute hospitals must have a consultant led AEC service operating at least 10 hours each weekday before the end of November 2016 and a seven day service should be introduced this year with a plan to fully establish during 2017/18.

Physicians and clinical teams currently providing this model of care agree that by implementing the key principles of AEC, we can start to address issues in managing emergency care pathways, whilst significantly improving patient experience. AEC is a cost effective, high-quality, patientfocused service that delivers senior review for effective care. Hence our move to make sure that these principles are rapidly operating at scale and systematically across all trusts. We know that ambulatory emergency care is a key component of delivering safe, effective, high-quality care for patients, and as such should be an integral part of any urgent and emergency care system.

We have already seen the positive impact that similar a similar approach has had in improving elective care with the adoption of day surgery and know that AEC can do the same for emergency care. The challenge is to use the principles described in this Directory to establish an AEC service that works within your local system.

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Jim Mackey Chief Executive NHS Improvement

Foreword



There is increasing recognition of the need to develop urgent care outside traditional hospital settings. New models of service delivery have the potential to achieve excellent and efficient care close to, or even

in, the patient's home. This allows our urgent care system to be more tailored to patient needs and preferences, enhancing experience and preserving hospital beds for those with the most serious and complex problems.

This fundamental shift in the emphasis of care is described in the document "Transforming urgent and emergency care services in England. Urgent and Emergency Care Review: end of phase 1 report", published by NHS England in November 2013. The Urgent and Emergency Care Review, led by the NHS Medical Director, Professor Sir Bruce Keogh, is radically altering the way urgent care services are delivered in England, and ambulatory emergency care is a fundamental component of this change. New advances and new ways of working, coupled with developments in the NHS workforce and genuine collaboration between primary and secondary care, have the potential to move much urgent care activity out of hospital beds and into ambulatory and community settings.

This fifth edition of the Directory of Ambulatory Emergency Care for Adults builds on the success of earlier editions, and a programme of work that has effectively supported the adoption of this innovation across multiple NHS sites, improving uptake and reducing variation by fostering collaboration between disciplines and professions, and between community, primary and secondary care.

However there is still much to do, and many more patients who could receive care in more convenient and effective ways, closer to home, through the principles described in this Directory. Hospital admission should be reserved for the most severely ill and injured patients, who need the concentrations of expertise and high dependency care that hospitals can provide. For the majority, ambulatory emergency care should become routine, however this can only be achieved where it proves possible to implement wholesystem integration and co-ordinated care, supported by new technologies, rapidly accessible diagnostics and a workforce that has the necessary knowledge and skills.

The Urgent and Emergency Care review aims to create the conditions that will foster a wholesale change, right across the urgent care system, combined with the guidance and tools to support local commissioners and clinicians in designing and delivering pathways that are focussed around patient need and experience, not around buildings or artificial divisions between services. Only through radical change can we achieve a sustainable provision of urgent care that ensures the highest quality of outcome and experience for all patients, delivered in a safe, timely and cost-effective way. Ambulatory emergency care is a key component of this change, and I look forward to the further development and implementation of this programme for the benefit of patients, staff and the urgent care system as a whole.



Professor Jonathan Benger National Clinical Director for Urgent Care NHS England

1 An Introduction to Ambulatory Emergency Care (AEC)



Introduction to AEC

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Developing AEC Services

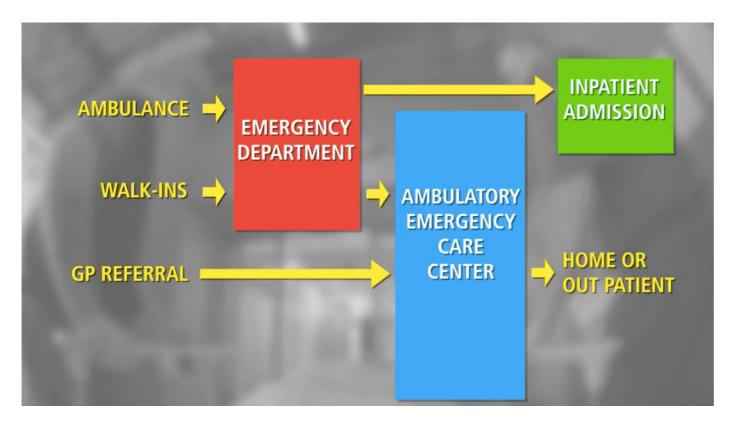
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Who is the Directory of AEC for?

This guide is for anyone involved in the design or delivery of emergency care services both in and outside of a hospital setting including ambulance and community services. You will find the guide useful if you are a clinician, manager, GP, commissioner, information analyst or healthcare student.

If you would like to find out more about AEC, visit our website at: **www.ambulatoryemergencycare.org.uk**

In this edition of the Directory we aim to update the list of conditions and ICD-10 codes as well as providing operational guidance on maximising AEC.



Context

The underlying principle of Ambulatory Emergency Care (AEC) is that a significant proportion of adult patients requiring emergency care can be managed safely and appropriately on the same day, either without admission to a hospital bed at all, or admission for only a number of hours. This is achieved by streamlining access to diagnostic services and reorganising the working patterns of emergency care clinicians to be able to provide early decision making and treatment. There is also a need for immediate access to support services in the community to provide robust safety net systems and optimise integrated care. This is particularly important for managing the frail elderly on an AEC Pathway.

Over recent years AEC has become an accepted and recognised treatment modality and has led to the Royal College of Physicians producing the "Acute care toolkit 10: Ambulatory Emergency Care" (2014) which lists the principles needed within a system to maximise AEC. NHS England recognises the need to make AEC services an integral part of emergency care. With this in mind Acute Hospitals are required to have AEC services in place by November 2016. Increased adoption

What is Ambulatory Emergency Care?

in Acute Medicine has led to developments in Surgery and within subspecialties leading to a mind shift in patient care and a social movement to convert as much emergency care as possible to same day care.

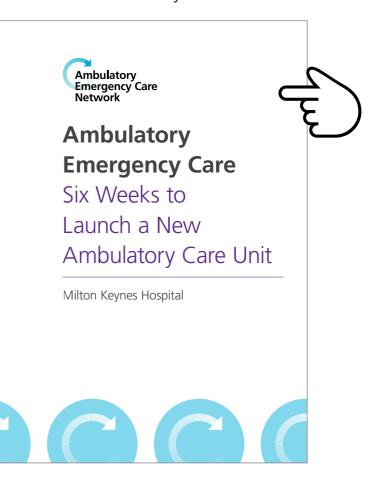
To understand more about the social movement driving the adoption of AEC view our short film at:

www.ambulatoryemergencycare.org.uk

Ambulatory Emergency Care (AEC), or 'same day emergency care' is a whole system approach that includes both primary and secondary care. This ensures that patients who are assessed as appropriate for AEC are diagnosed and treated on the same day and then sent home with ongoing clinical follow-up as required. This model of care is explained in a short film created for patients and clinicians alike, you can view it at:



Where AEC has been successfully implemented, it has led to a change in mindset; with AEC becoming the default position for emergency patients unless admission is clinically indicated. The change in mindset for AEC has been likened to the development of Day Surgery. The team at Milton Keynes NHS FT describe how they implemented AEC in a six week period. You can read their story here:



The Royal College of Physicians define AEC as:

"Ambulatory Care is clinical care which may include diagnosis, observation, treatment and rehabilitation, not provided within the traditional hospital bed base or within the traditional out-patient services that can be provided across the primary/ secondary care interface."

The Royal College of Physicians – Acute Medicine Task Force and endorsed by The Royal College of Emergency Medicine. Royal College of Physicians

You can access the toolkit here:



The impact of AEC on the urgent and emergency care system has also been recognised by NHS England in the document Safer, faster, better: good practice in delivering urgent and emergency care (2015), where AEC is seen as a key component of a well-resourced system. Included in the recommendations is that *"Each acute site should consider establishing an AEC facility that is resourced to offer emergency care to patients in a non-bedded setting"* (NHS England, 2015). Evidence from this review highlights areas where AEC can impact and make the case for implementation compelling, these are:

- Preventing crowding in emergency departments improves patient outcomes and experience and reduces inpatient length of stay.
- Getting patients into the right ward first time reduces mortality, harm and length of stay.
- Patients on the urgent and emergency care pathway should be seen by a senior clinical decision maker as soon as possible, whether this is in the setting of primary or secondary care. This improves outcomes and reduces length of stay, hospitalisation rates and cost.
- Frail and vulnerable patients, including those with disabilities and mental health problems of all ages, should be managed assertively but

holistically (to cover medical, psychological, social and functional domains) and their care transferred back into the community as soon as they are medically fit, to avoid them losing their ability to self-care.

 Ambulatory emergency care is clinically safe, reduces unnecessary overnight hospital stays and hospital inpatient bed days.

(NHS England, 2015)

It is recommended that you use 'Safer, faster, better' as a basis to inform the design of your system for emergency care. To learn more:



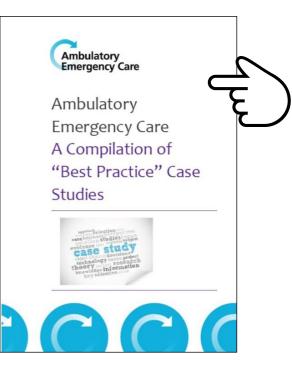
Principles of AEC

The overarching principle of AEC is that all emergency patients should be considered ambulatory until proven otherwise. Principles listed in the RCP toolkit (2014) are:

- 1. Senior clinical input is needed at the point of referral to redirect suitable patients to ambulatory care
- 2. Clear exclusion criteria based on the NHS early warning score (NEWS) should be developed to maximise patient flow to ambulatory care
- 3. Where possible the ambulatory emergency care service should be closely located to A&E
- 4. Staffing and resources should be organised to provide rapid assessment, diagnosis and treatment on the same day
- 5. The time standards in AEC should match the Clinical Quality Indicators for A&E i.e. time to initial assessment: 15 minutes, time to medical assessment; 60 minutes and completion within 4 hours
- Patients should be informed early in their journey (ideally in A&E or by the GP) that they are likely to receive treatment that day and are unlikely to be admitted overnight to manage their expectations and those of their family

- 7. Secondary and primary care services should be geared around patient needs and work together to provide ongoing care outside of hospital to avoid a full admission
- 8. Staff training is needed across the local healthcare system to ensure appropriate patients are streamed to ambulatory care
- 9. Comprehensive records must be kept and discharge summaries sent to primary care within 24 hours
- 10. Providers must work with commissioners to agree how AEC activity will be recorded, reported and funded
- 11. Clear measures must be adopted and monitored to assess the impact, quality and efficiency of AEC

The main aim is to streamline processes enabling patients to be assessed, diagnosed and have treatment commenced same day. This means patients can be safely managed in an AEC environment without the need to stay in hospital overnight. To understand how this might work in practice you can access a compilation of case studies here:



Advice on the design and development of your AEC service is described in the following sections.

Team Working

Clinical leadership to develop Ambulatory Emergency Care is crucial for its safe and effective design and delivery. Senior clinical personnel with expertise in illness severity, co-morbidity and functional assessment with the experience to make balanced risk decisions are required. AEC can be delivered in a range of locations and it is for each local healthcare system to decide on the appropriate configuration of facilities to develop and continue to improve services. Many AEC pioneers started from very humble beginnings, including corridors and cupboards, but, driven by the passion and determination of clinicians, as the case for service expansion became evident, they were able to progress to more appropriate facilities.

The configuration of your AEC team should be guided by the aims of the service and the identified potential activity and case mix. The underlying principle of early access to a senior decision maker is key to ensuring the capability to process patients at pace and scale. Consultations with senor clinicians result in more streamlined assessments, fewer investigations and fewer hand-offs in care. "A Senior Decision Maker" is usually a Consultant level doctor but can be experienced middle grade doctors or ANPs, provided they are empowered to complete the patient episode in a similarly efficient manner. Having allocated medical and nurse staffing is essential to maximise an AEC service. Where clinical staff are expected to cover an area in addition to AEC it is unlikely that sufficient pace will be maintained with either workload. A further problem that can arise when AEC is mixed with other patient streams is gravitation of staff to the sickest patient, which although understandable, will take focus away from the high turnover AEC stream. Non-clinical time should also be built into job plans, especially where the AEC is undergoing active development work, to allow adequate capacity to deliver all aspects of the role and ensure consistent clinical cover.

Typical Team Composition:

 Medical Staff – Should be senior and experienced working in a focused assessment manner. An AEC mindset is more important than whether the staff come from ED, AMU or General Medicine and there are good examples in the Network of all of these models. Some organisations have had great success with bringing GPs in to AEC with the wealth of knowledge of community services they bring. Bringing in staff from other specialties can further expand the range of patients managed via AEC.



- Advanced Nurse Practitioners ANPs can be a highly valuable resource to AEC and provide a seamless combination of medical and nursing care. Nursing roles in AEC are discussed in the section "Nursing Practice in AEC".
- Registered Nurses Nurses are the component of the team that makes the service cohesive and who navigate the patient through a complex and unfamiliar system of care. Nurses who have experience of working in an assessment environment and good knowledge of the services available hospital and community wide will be invaluable as the backbone of the nursing workforce.

- Healthcare Support Workers These roles free up Registered Nurses to stay on the unit and provide the clinical care required as AEC treatment can often mean moving patients through different diagnostic departments. These workers can undertake tasks such as phlebotomy, basic health assessments and point of care testing when they have undergone appropriate training, releasing RNs to deal with more complex processes. There is also the option of combining some admin functions to the role depending on local needs.
- Therapists The input of therapists cannot be underestimated especially where the service is also seeing a cohort of patients with frailty. Access to therapies will allow AEC to manage patients with a much wider range of mobility and avoid admission of those who are most at risk of deconditioning during an inpatient spell. Some organisations have secured their own therapists while others have set up access agreements with MAU or ED based therapy teams. Ensure internal professional standards support and appropriate response time and cover can be provided into the evenings and at weekends.

- Pharmacy Dedicated pharmacy support will help with medication reconciliation for polypharmacy patients and ensure minimal delays in obtaining discharge medications. It is also helpful to identify commonly used discharge medicines and consider having a stock of pre-packed meds to speed up discharge processes.
- Admin Staff Staff to register patients and handle as many admin tasks as possible to free up clinical time are essential. IT processes for AEC in patient administration systems can often be complicated and non-intuitive so experienced admin staff or appropriate support should be available.



AEC presents a good environment for learning and development of junior staff and students with a broad case mix and high turnover of patients. This must be balanced against the need to process patients in a timely manner without creating steps in the journey that do not add value. AEC staffing should not be based on high proportions of junior staff "doing the work" as this can lead to extended assessments, unnecessary investigation and risk aversion in management plans.

Beyond the internal AEC team there are a number of other professions and departments where close working is needed to ensure operation is as smooth as possible and these relationships should be cultivated and formalised through internal professional standards. There will be some local variation but at a minimum these would include:

- Emergency Department
- Urgent Care Centre/Walk in Centre/Minor Injuries Unit
- Acute Assessment Unit
- Local GP forum
- Radiology
- Pathology
- Pharmacy
- Therapies
- Discharge Lounge
- Patient Transport
- Ambulance Service
- PALS
- Outpatients Manager
- Bed Manager

Environment and Facilities

AEC Units should be designed in such a way that the aims of the service can be met whilst maintaining privacy and dignity of patients. Consideration will need to be given to the case mix and demand. It is likely that as the service embeds demand will increase so plans will need to take into account early expansion to meet this growth.



Units have been developed by taking ward space from AMUs, using outpatient areas and collocating with ED. All options will have advantages and disadvantages. One of the main pitfalls to avoid is bedding of the AEC area as this is counter productive and will have a significant negative impact on patient experience and flow. It leads to variation in capacity and can take days to recover from; Network members have access to our guide on preventing bedding of AEC units. There are some basic principles that we know from experience can maximise success:



- Using treatment chairs rather than trolleys, and trolleys rather than beds

 This reinforces a discharge mindset and avoids the temptation of bedding the AEC area. Some trolleys will be needed for patients who need to lie down.
- Avoid making the area look like an inpatient ward – If AEC looks like a ward it will be treated like a ward and bedding is highly likely.
- Avoid making the area look like an outpatient clinic – In this situation a misunderstanding can be created that AEC simply provides urgent outpatient management. This can attract activity that is low acuity, low complexity and often elective meaning that impact on emergency inpatient flow will be reduced.

- An appropriate waiting area "hot-seating" patients so that they are only in a treatment chair/trolley while receiving a clinical contact reinforces the discharge mindset and allows greater numbers to be managed in the unit. The waiting area also allows management of peaks and troughs of arrival. The waiting area will need to be designed in such a way that patients are comfortable, have some form of entertainment and can have access to refreshments.
- A treatment room or dedicated area for performing invasive procedures – This will allow a greater range of patients to be processed and reduces unnecessary handoffs of care to other departments.



 Dedicated initial assessment area – AEC should maintain time standards similar to Emergency Departments in terms of time to assessments to ensure safety and efficiency.

Patient Selection

Use methods to enable remote management where appropriate –

Many patients may be able to leave the unit during wait times and return when the next stage of treatment is ready. Calling a patient on their mobile phone or giving them a pager may facilitate this. There may also be opportunities to manage patients by phone especially when discussing results that are not available on the day of test to remove the need to return to hospital.

- Proximity to the Emergency Department and Acute Assessment Units – There will be a flow of patients between ED, AEC and Acute Assessment Units, this will be more efficient where the physical distance is reduced. Co-location can also foster an environment of shared learning.
- Good access to diagnostic departments

 AEC management often involves multiple diagnostic services. An easy route to these departments can enable patients to make their own way when appropriate, and where an escort is required will minimise staff time off the unit.

For a virtual tour of an AEC Unit click here.

Selecting the right patients for AEC is essential to maintain safety and maximise the impact on emergency flows. Remember the underlying principle of AEC is to convert traditional inpatient care into same day emergency care.

A process based model is recommended to maximise AEC. This means the system is designed for all patients to be streamed through AEC unless clinically unstable. With this approach you might expect to convert around 10% of AEC patients to inpatient admission. It is important that this is not seen as failure provided that: at the point of selection, there was a reasonable expectation of safe discharge and the patient has received maximal management. Taking this level of clinical challenge generally produces the most positive impacts on emergency flows. Bed management teams should take into account this potential stream of patients. Diagram 1 below should be used to monitor the case mix of patients treated in an AEC environment to help understand how effective your patient selection is. Where patients are not being managed via the intended pathways, it is important to understand the root cause and manage this. The patient selection matrix below illustrates how analysis of patient selection might be undertaken.

A key component of the AEC pathway is the clinical conversation at the point of patient referral. This is an ideal opportunity to identify the best environment for the patient to be managed in, and offers real alternatives to transfer to secondary care and to initiate processes to prepare for patient arrival. This applies to internal and external referrals. We advocate these calls being handled by a dedicated senior decision maker to ensure the quality of response and facilitate a degree of clinical challenge with the referral. Out of hours, robust processes should be in place to allow

Diagram 1	Suitable for AEC	Unsuitable for AEC	
Seen in AEC	Success	Risk (patient too sick/complex at time of selection)	
	(expect about 10% conversion rate)	Waste (patient could be managed in other outpatient service)	
Not seen in AEC	Missed opportunity	Success (appropriate inpatient care)	

patients to be booked to attend AEC at the next available opportunity with holding management initiated by the referrer where appropriate.

We have developed four key questions (see opposite) for determining patient suitability for AEC and these can be used to structure the clinical conversation at referral, as a checklist and as an audit tool. These questions require a good understanding of the local system and AEC aims/capabilities.

These questions reflect the needs of the patients but also the capabilities of the AEC service. It is important to reflect on whether the design of your service is limiting the type of patient that can be managed and in turn limiting the impact of AEC on the system.

It is important you work closely with ED staff to maximise the flow of patients to AEC. The following processes can be effective:

- redirecting appropriate patients following triage
- undertaking regular board rounds with ED staff to identify patients
- displaying a list of common AEC conditions to help identify patients
- giving the AEC team access to the ED board to spot patients
- allowing automatic referral from ED for appropriate patients

Key Questions

Is the patient sufficiently stable to be managed in AEC (usually NEWS <=4?)

Is there an existing outpatient or community service that could more appropriately meet the patients needs? Is the patient functionally capable of being managed in AEC whilst maintaining their safety, privacy and dignity?

Would the patient have been admitted if AEC was not available?

Surgical Specialties

A number of units are developing Surgical AEC systems and this has recently become an area of great interest. Teams have approached this in a number of ways, some units have integrated surgery and medicine in AEC whilst others have developed an AEC stream as part of an existing Surgical Assessment Unit. As medical AEC originated with the development of pathways for DVT, surgical AEC has evolved from abscess pathways. Abscess pathways are well established in many organisations where patients are assessed for suitability and if appropriate discharged home and listed for surgery the next day.





The British Association of Day Surgery has recently produced a handbook on Ambulatory Emergency Care (BADS, 2016), you can order the handbook <u>here</u>. Ambulatory Emergency Care is a natural evolution for Day Surgery and employs many of the same principles to provide effective care.

"Many emergency surgical procedures are minor and non-life threatening and traditionally have been considered low priority for surgical intervention. Consequently, it is not unknown for these patients to occupy an acute surgical bed for several days as subsequent admissions are prioritised to restricted emergency theatre slots. Indeed, when eventually scheduled for theatre, patients such as these are often discharged within a few hours of their operation, raising the possibility of an **emergency day surgery pathway**."

(BADS, 2016)

Some sites have developed a systematic approach where surgical referrals are assessed for AEC management. This is usually best supported by immediate availability of an Emergency Surgeon and supported by diagnostics to aid clinical decision-making. A small number of sites use specific theatre lists to support the surgical AEC pathway so that patients may be seen by a consultant, have a diagnostic test and surgery within the working day to be discharged home that evening.



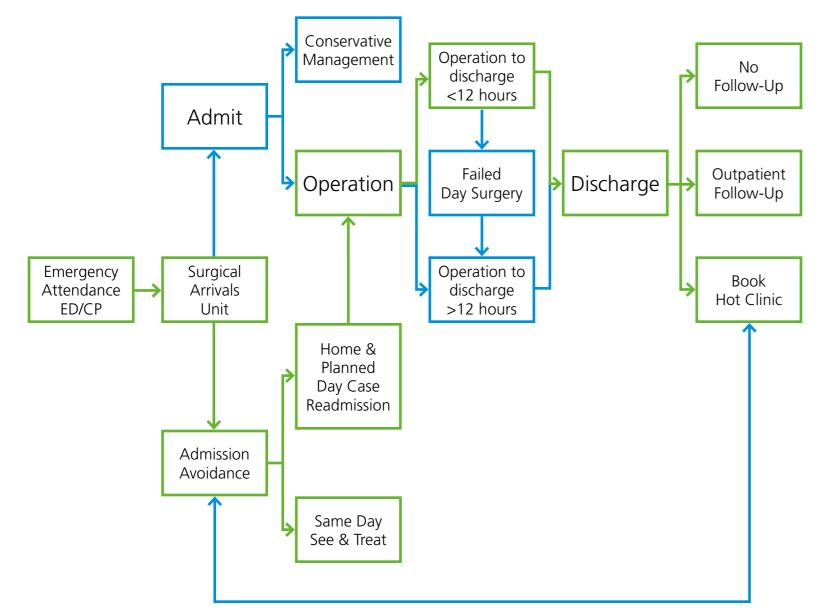
For Surgical conditions requiring invasive intervention managed via AEC, three broad groups can be described:

- Preoperative delay, but surgery and discharge on day case basis.
- Emergency day surgery with entire pathway completed on same day.
- Planned preoperative discharge with return within the next few days for surgery with same day discharge.

(BADS, 2016)

A high-level system view containing these options is shown in Diagram 2 with the **AEC pathway highlighted in green**.

Diagram 2 Emergency Surgery Flow



Just as with Medical AEC patient selection is key to effective management. In addition to the general considerations of patient stability and level of function there are additional factors relating to the surgical procedure:

- The proposed surgery is suitable for day case management
- Potential for systemic sepsis is excluded before temporary discharge prior to operation.
- Usual criteria for management as a day case are met.
- Any pain can be managed with appropriate analgesia at home.
- Patients with diabetes have stable blood sugars.

(BADS, 2016)

The Surgical scope of AEC is going through a period of rapid development and as such the clinical scenarios and coding listed in this Directory will be updated as evidence becomes available.

Nursing Practice in AEC

The nursing workforce is key to developing and delivering an efficient, high quality AEC service. In particular, the nurses more functional assessment of patient needs and familiarity with services available in both Primary and Secondary care can provide a highly comprehensive and holistic management plan. Nurses tend to provide a more stable and consistent workforce than doctors in training posts and so represent a huge resource in terms of organisation knowledge and continuity of service development plans.

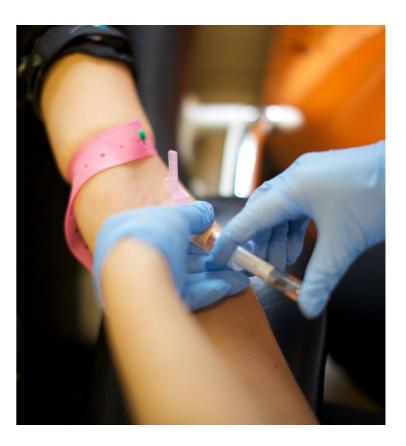


AEC represents a perfect opportunity for nurses to develop their skills and advance their scope of practice and there are many examples from UK sites of nursing staff rising to the challenge and pushing boundaries. This applies equally to unregistered nursing staff where we have seen the development of a number of interesting roles. The development of clinical nursing roles in AEC can be broadly organised into the following levels with management responsibilities running in parallel:

Non-Registered Nurse Roles

- Healthcare Assistant (HCA) comparable role to ward based staff attending to personal care needs, escorting patients to diagnostics, vital signs monitoring etc under the direction of a Registered Nurse.
- Combined Admin and HCA roles able to work flexibly as required between a ward clerk/receptionist function and patient care duties. This can offer advantages in managing variations in activity levels and rostering.
- Advanced HCA having established competency in the basics, the HCA role has now taken on additional skills that are traditionally considered to belong to RNs e.g. Phlebotomy, canulation, medication administration and basic health assessments. It is important to remember that these tasks are delegated appropriately by a RN who remains accountable for the care. More information can be found using the links below.

<u>RCN</u> (HCA and AP roles and competencies) <u>**Health**</u> Education England (developing educational programmes)

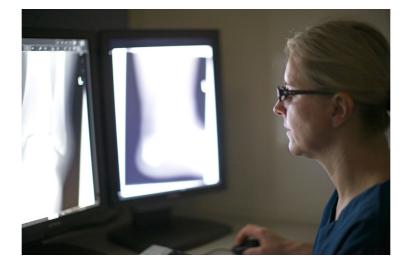


Registered Nurse Clinical Roles

- **Registered Nurse** practicing competently at the levels expected commonly throughout the health economy.
- Registered Nurse initiating additional skills – certain process steps are initiated by appropriately trained nurses in accordance with a clear policy e.g. defined basic radiology requests, predefined pathology request panels, and analgesia given under Patient Group Direction (PGD).

 Registered Nurse operating a care pathway – an appropriately trained nurse completes a defined series of actions representing a patient journey in accordance with a policy; in some cases this may include discharge against set criteria. Patients have been differentiated prior to entering the pathway. Freedom to act is constrained by the pathway and a Dr or ANP handles any co-morbidity or deviation from expected pathway. Medication is usually handled by Patient Group Directive rather than nonmedical prescribing. This can be seen in some examples of DVT and cellulitis services.





- Clinical Nurse Specialist significant clinical experience and further training has been undertaken, often at Masters level, to manage a group of patients within a defined clinical field. There is freedom to act outside of a formalised pathway including investigation, diagnosis and treatment, but only in relation to the specialist area of practice. Patients have usually been differentiated prior to CNS management. Medication is usually handled by nonmedical prescribing. The CNS will act as a learning and development resource to other nurses and healthcare professionals and contribute to practice and service development. Some DVT services use this model and many subspecialty services use CNSs who may offer in-reach into AEC.
- Advance Nurse Practitioner significant clinical experience and extensive further training has been undertaken at Masters level in a specified programme to enable generalist, whole management of an undifferentiated patient's episode. This will usually include the authority to request appropriate advanced radiology, make a final diagnosis, prescribe medications, undertake technical clinical procedures, refer to specialists for further management, and discharge the patient. In some organisations ANPs clerk patients and present to a senior doctor for direction on management; while this may be useful while newly qualified, long-term it fails to realise the potential of an expensive and highly skilled resource. ANPs will act as a learning and development resource to other nurses and healthcare professionals and contribute to practice and service development.

<u>RCN</u> (ANP Competencies)
 <u>NMC</u> prescribers standards
 Health Education <u>England</u> (developing educational programmes)

Some examples of job descriptions can be seen <u>here</u>.

All registered nurses are bound by their code of conduct to practice within their own scope of professional practice recognising their limitations and development needs. In developing your service be clear about your aim and how team roles can contribute to effective delivery of the service.

The Society of Acute Medicine has produced guidance on workforce planning for Acute Medical Units and the underlying principles can be easily translated to AEC which can be found <u>here</u>.

NICE have also produced general Nurse staffing guidance that contains useful prompts on which to base your planning discussions which can be found <u>here</u>.

In this Directory clinical scenarios that are felt to be particularly amenable to nurse management have been highlighted in blue, this list is not exhaustive or intended to be taken as a limitation. The highlighted examples could be appropriate for nurses at levels able to initiate significant process steps, operate a clinical pathway or practice as CNS. ANPs practice as generalists and providing the appropriate competency has been demonstrated could potentially expect to practice across all scenarios described in the Directory.

Pitfalls

Operational teams often report difficulties when AEC services are used in escalation, this means patients are bedded in the area preventing treatment of AEC patients. Escalation plans should be designed to avoid this, when the system is under pressure AEC is a key component of the response. Action should be taken to enhance AEC i.e. provide resources to process more patients same day or lengthen the hours of operation to increase capacity for more patients. If AEC is unable to operate this will have a negative effect downstream prolonging escalation.

Design tips to reduce the risk of AEC units being used for temporary bedded accommodation can be seen <u>here</u>.





Commissioning for AEC

In December 2014 NHS England published planning guidance for CCGs and healthcare staff identifying models of care that will apply in 2018 and the steps needed to achieve the vision. Many of the steps described apply to AEC such as:

'Reducing the amount of time people spend avoidably in hospital through better and more integrated care in the community, outside of hospital'.

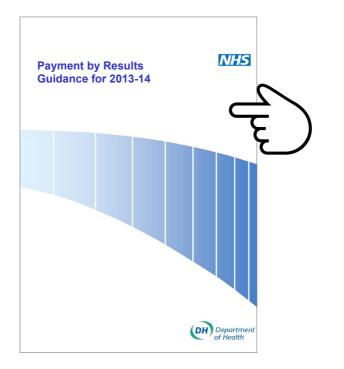
'Increasing the number of people with mental and physical health conditions having a positive experience of hospital care'.

The report shares examples of patient feedback and states:

'Our patients have consistently told us how important it is that they don't have to wait for treatment. They tell us that waiting can be the most distressing part of their illness. And we know that waiting can make clinical outcomes worse and can even make services unsafe. We also know that our services can only improve outcomes for patients if they are available to them and they receive those services quickly, when they need them, and in a way which is convenient for them and fits with their daily lives'. We know through participating sites who measure patient experience, that patients have a very positive experience whilst in AEC and that this model of care has many of the elements needed to meet the ambitions set out in the NHS planning guidance.

Best practice tariffs have been designed for AEC as a lever to promote the management of some high volume conditions on a sameday basis using an ambulatory emergency care model.

Guidance that explains the pricing methodology for the Same Day Emergency Care or AEC Best Practice Tariff can be found <u>here</u>.



Best Practice Clinical Scenarios (BPT)

There are a number of conditions where BPT is applied in Emergency Care. These are:

- Abdominal Pain
- Acute Headache
- Anaemia
- Appendicular Fracture
- Asthma
- Bladder Outflow Obstruction
- Cellulitis
- Chest Pain
- Community Acquired Pneumonia
- Deliberate Self Harm
- DVT
- Epileptic Seizure
- Fall, including Syncope/Collapse
- Low Risk Pubic Rami fracture
- LRTI without COPD
- Minor Head Injury
- PE
- Renal/Ureteric Stones
- SVT including AF

Case Management Plans

It will be the responsibility of the senior clinical team members to ensure that well documented, case management plans with transparent lines of clinical responsibility are developed. Managing these could include monitoring the patients' condition by either telephone consultation, electronic communication, at home by the community healthcare team, attendance at primary care, a day treatment unit or an outpatient clinic, depending on the clinical situation and local service configuration. An example of an AEC medical clerking sheet can be seen <u>here</u>.

Specific pathway documents for high volume clinical presentations, for example DVT, can be helpful with a more generic document to accommodate the others. Ideally a document should be developed that supports the patient's care throughout the pathway and can be initiated wherever the patient presents and wherever they receive their ongoing care. An example of a DVT and PE pathway can be seen <u>here</u>. The case management plan should be communicated with all parties involved in managing the patient's care and of course the patient. The case management plan should include:

- Diagnosis
- Relevant diagnostic results
- Treatment plan
- Referrals made
- Actions required from other clinicians
- Contact in the event of clinical deterioration or non-response to treatment
- Contact details for enquiries

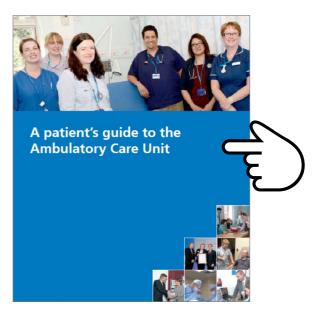


Patient Information and Experience

Undertaking patient experience studies with teams across the network has highlighted the importance of providing information to patients in the pre-arrival stage of the AEC pathway. Patients have explained that they are not used to the term 'ambulatory' and because of this they describe feelings of worry and anxiety before attending the service. Having negative feelings before attending AEC can colour the whole experience for patients and it is important that information is provided at the first contact, either with the GP or referrer. We know that it makes all the difference to patients by providing them with clear, concise, easy to read information explaining:

- 1. What Ambulatory Care is
- 2. Their condition
- 3. The case management plan
- 4. What to look out for suggesting any deterioration
- 5. The monitoring process
- 6. A specific contact point if there are any concerns

An example of a patient information leaflet can be seen here:



Emotional Map

% of patients were happy, comfortable, safe, supported or good

72%	87%	95%	92%	95%	94%
Prior to Arrival	On Arrival	Initial Assessment	During Investigations	During Treatment	During Next Steps
21%	13%	5%	8%	5%	3%
and the second secon	ients were ad or lonely		% of patients	were worried	

Undertaking a study of patient experience should be an essential part of your project, as understanding how patients experience our services is critical if organisations are to be able to design services that meet patient's needs. Through the network staff receive training about patient experience, and project teams are supported to work with patients to agree improvements to local services. This approach ensures that there are no gaps between staff and patients on the perceived actions/resources needed to improve patient experience.

When patients are involved in improving services their needs are often very simple and not costly e.g. provision of refreshments, clear signs directing patients to the services etc.

Following attendance at AEC patients should be provided with a copy of their plan and treatment; this should also be sent to their GP e.g. e-discharge. Information should include 'contact numbers' and guidance on who to contact if they are worried. Having a contact point is important to ensure that patients feel confident that they are being managed safely. Local implementation teams will need to consider how best to set up this important process 24 hours a day, 7 days a week. Depending on service delivery this could be the A&E or AMU; other options to consider might be integration of this contact point with the Out of Hours Services, NHS 111, or with the Ambulance Services. Shared decision making, involving patients fully in their own care, with decisions made in partnerships with clinicians should be the norm in AEC.



Measurement and AEC

In order to demonstrate the impact of AEC it is essential to ensure that you have a clear aim and an understanding of your baseline position.

For example, your aim may be to avoid admissions, reduce emergency bed days, improve performance of the 4 hour standard, improve clinical outcomes or improve patient experience. Your outcome measures should reflect this aim: for example, emergency bed day usage of patients who meet the clinical scenarios in this Directory.

Being clear about current emergency and urgent care patient flows at baseline and measuring those that are important to demonstrate impact or monitor potential unintended consequences (balancing measures) is a useful starting point.

The number of new patients who receive the service is a process measure and not an outcome measure. Additional process measures that demonstrate the AEC service is operating well should include the right patients, receiving the right care in AEC services, at the right time. Combining outcome and process measures will help you to answer the question: has developing AEC services enabled an improvement (see figure 1). Figure 1 Has developing AEC services enabled an improvement?

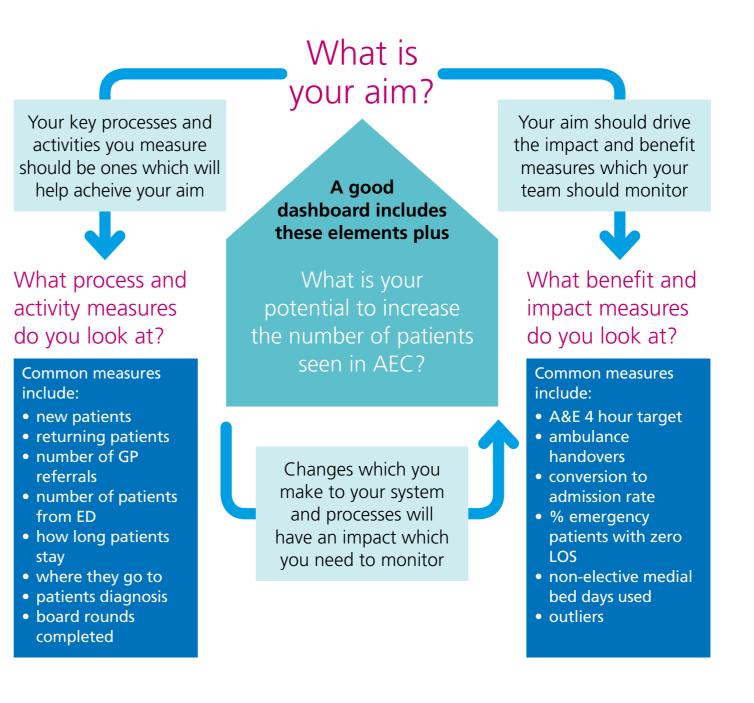


Figure 2 highlights this for new AEC patients. It shows that there are two groups of patients who may not be appropriate for AEC services – patients who should have been admitted directly to a specialty base ward for example as they are clinically unstable and those that could have been managed in another setting (e.g. outpatients/ED). Having clear thresholds for the service that are shared and agreed by the clinical team will help define the measures. A regular casefile review will support the assessment of this aspect of clinical decision-making and ensure patients are receiving care in the most appropriate setting.

Figure 2 2x2 matrix illustrating "right patient, right place" is it effective?

	Managed in AEC	Not managed in AEC	
	conversion		
Appropriate in AEC	Box 1: Success % conversion from AEC service to admission Clinical outcomes/experience	Box 2: Missed opportunity % HRG/ICD-10 clinical scenarios Casefile review	
Not appropriate in AEC	Box 3a: Wasted capacity Some HRGs may indicate Low conversion rates Casefile review	Box 4: Appropriate Emergency inpatient/outpatient care	
	Box 3b: Potential clinical risk Patients NEWs score High conversion rates Casefile review		

Other measures may indicate the need for a casefile and/or clinical review:

- Wasted capacity: A relatively high proportion of some Healthcare Resource Groups (HRGs) or unexpected changes in proportion may indicate a need to review thresholds and check if patients could have been managed in a less urgent setting, and/or highlight a need to improve clinical information for coding. It is a marker for a guality review for improvement and should not be used for performance, especially in process models as some HRGs may be appropriate. Some examples include: high proportions of patients receiving blood transfusions, generic "catch all codes" such as those HRGs that include the term "other" and/or codes reflecting elective follow-up appointments. All of these codes may reflect patients that receive care in the right place at the right time.
- Potential clinical risk: A high conversion rate to admission and/or patients with an aggregate NEWs score above 4 may indicate patients who are too acute or too complex to be managed in AEC.

Reviews of HRGs and ICD-10 codes are indicative not definitive. They can act as a trigger to ask further questions but in themselves cannot answer the question if a patient is in the right place at the right time when they receive AEC services. It is essential that reviews include clinical input as the clinical presentation and decision making may differ from the final HRG/ICD-10 code, and that there is clarity on the aim of the service.

A one-off review can identify patients that are admitted but could have been seen in AEC i.e. those that are in the **"missed opportunity" box**:

- First by reviewing the casemix of patients being admitted (particularly those with a 0,1 or 2 day length of stay) compared with those receiving AEC using this Directory.
- A second approach is a clinical assessment of patients admitted to short stay wards/Acute Medical Unit the previous day to understand which patients could be managed through AEC and why this did not occur.

These two approaches can complement each other – the first may identify clinical areas to target and the second provides insights to changes required in clinical processes and resource for the AEC service to effect change.

Activity

You also need to decide how to capture your AEC activity. As AEC patients can legitimately span inpatient, outpatient (new and followup) and ward attendance it is important to agree your approach with commissioners and understand any implications to national measures. For more information see Factsheet 2 here:



These solutions work best where there is a clear agreement on the definition of AEC activity between commissioners and providers.

The following steps will help:

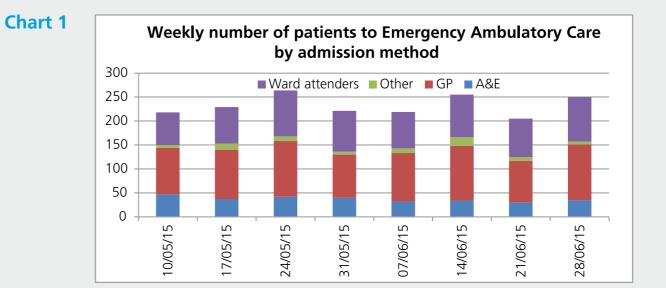
- Ensure AEC activity can be separately identified from other emergency care activity e.g. by specifying a particular location code
- Ensure it is possible to differentiate between new and follow-up activity, how the patient accessed the service and the outcome (e.g. discharge, follow-up, admission)
- Decide which hospital information system will be used to capture AEC activity: e.g. systems used in ED, inpatient or outpatient
- Decide how the activity will be returned to national datasets with commissioners
- Clinically code all AEC activity so that major diagnostic groups can be identified and comparisons made with the pre-AEC developments position
- Capture telephone activity and outcomes

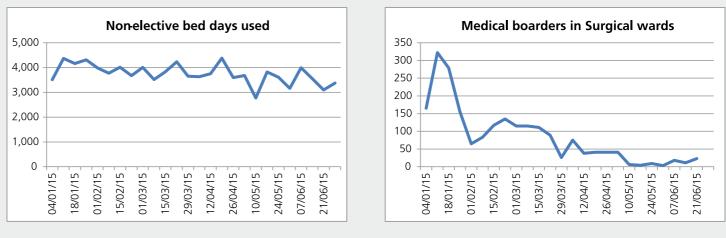
Experience from the AEC network has shown that it is crucial to work out how to effectively capture the right data early on in planning for AEC services and developments.

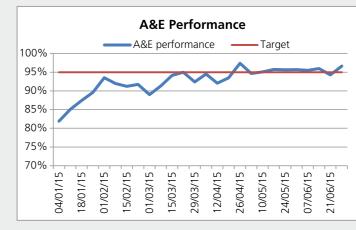
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AEC Dashboards

A useful approach to measurement in AEC is to produce a dashboard of measures based on the aim of your service as this will provide rapid and visible feedback that can shape further development. This dashboard should include outcome measures, process measures and some balancing measures i.e. have there been any unintended consequences from implementing the service. An illustration of measures used in an AEC dashboard is provided in chart 1 opposite.







Tariff and AEC

Across the AEC Network commissioners and providers have adopted different approaches to agreeing an appropriate tariff for ambulatory patients. Some health economies employ a mixed approach while others opt for one of the following:

- Payment by Results national inpatient tariffs
- Payment by Results national outpatient tariffs
- Local tariffs agreed between provider and commissioner
- Block contracts

Payment by Results (PbR) national inpatient tariff have scenarios identified for Best Practice Tariffs (BPT) that have been designed for AEC as a lever to promote the management of some high volume applicable conditions on a same-day basis using an ambulatory emergency care model.

Guidance that explains the pricing methodology for the Same Day Emergency Care or AEC BPT can be found <u>here</u>.

BPT Clinical Scenarios

There are a number of conditions where BPT is applied in Emergency Care. These are:

- Abdominal Pain
- Acute Headache
- Anaemia
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- Asthma
- Bladder Outflow Obstruction
- Cellulitis
- Chest Pain
- Community Acquired Pneumonia
- Deliberate Self Harm
- DVT
- Epileptic Seizure
- Fall, including Syncope/Collapse
- Low Risk Pubic Rami fracture
- LRTI without COPD
- Minor Head Injury
- PE
- Renal/Ureteric Stones
- SVT including AF

Successful local approaches to setting local tariffs include:

- shared understanding of the aim of the service between commissioners and providers
- shared understanding of the cost of providing the services and expected levels of activity
- ability to share any anticipated financial risk with a shared ambition that there are "no winners or losers"
- agreed measurement and checks to ensure there is no double counting and no financial winners or losers
- understanding of the cost of providing the services compared to traditional inpatient care and application of relevant national reference cost to inform local tariff developments
- agreement around any incentives required to support the developments

Using the HRGs and ICD-10 Codes in the Directory

You can use the codes in this Directory to identify potential areas to develop AEC services, and to summarise casemix. As we are using data designed for a different purpose, it is useful to understand HRGs and ICD-10 codes.

Clinical decision-making that results in a patient being seen in AEC rather than other settings is based on available information at the time that the patient presents at the hospital setting. Whereas clinical coding and the development of ICD-10 and OPCS-4 codes combined with other relevant information, define HRGs and are based on all the available information after a patient is discharged.

It is possible for example, that a patient who is appropriately seen in AEC for DVT, is not diagnosed with DVT and is allocated another HRG code through the grouper for example "Soft Tissue Disorder".

Another consideration is that HRGs are developed to ensure that providers are paid appropriately for patient care. This is useful as unlike a single ICD-10 they can reflect the complexity of the patient (with complications/ without complications) – if we apply a principle that more complex patients need more resources. Some HRGs are quite general, whilst others apply to more than one clinical scenario. This Directory intends to highlight clinical scenarios that are either high volume and/ or where a large proportion of patients can be seen as same day emergency care. This combined with the limitations of HRGs and ICD-10 codes means that the Directory can only indicate casemix and not define patients that could be seen in AEC. In particular, we expect a diverse range of HRGs and ICD-10 codes for process-based models of care.

Therefore, it is strongly recommended that HRGs and ICD-10 reviews are not used to judge AEC services but can be used to inform developments.

Example

In the clinical scenario "known oesophageal stenosis" two HRGs have been identified. The % of patients that could be managed by AEC may or may not reflect the % in the HRGs as this % reflects the prospective clinical presentation.

Clinical scenario Known oesophageal stenosis (either stented or unstented)				
HRG Codes	HRG Codes and Detail			
FZ31E	FZ31E Disorders of the Oesophagus, with length of stay 2 days or more, without Major CC			
FZ31F	Disorders of the Oesophagus, with length of stay 1 day or less			
% potential ambulatory care (primary ICD-10 coded admissions)				
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%

C150, C151, C152, C153, C154, C155, C158, C159, K220, K222, K224, K225, K227, K228, K229, K238, R12X, R13X, T181

The HRGs includes 2+ length of stay so it is possible to develop a sensible percentage of patients seen in AEC. The HRGs excluded FZ31D – Disorders of the Oesophagus, with length of stay 2 days or more, with Major CC = as this reflects patients that have significant co-morbidities and are unlikely to be able to receive care in AEC. However, we may not be surprised if a couple of patients could be appropriately and safely managed in AEC.

This Directory is provided to AEC Network members in an excel spreadsheet, updated annually. In this version we differentiate between "indicator HRGs" to support the analysis to identify potential clinical areas to develop services and HRGs help to summarise the casemix of patients being seen.

In the following sections you will find a selection of clinical scenarios that are particularly amenable to the AEC process with their respective ICD-10 and HRG coding. This list is not exhaustive but represents a firm foundation for establishing the required mindset and process changes. We recognise that there are many and evolving opportunities for further change and where these represent significant flows, the list will be updated.

As in the example opposite, potential codes have been included to help you search for these conditions within your datasets so that you can understand how these patients are being managed with your system. Further guidance has been given as to the expected proportions that could be managed via AEC along with a selection of clinical evidence to support this.

New Clinical Scenarios for the AEC Directory 2016

This section describes the approach that was used to identify seven new clinical scenarios for the Directory, the new scenarios are:

- Biliary colic
- Inflammatory bowel disease
- Electrolyte disturbance
- Other respiratory conditions
- Low risk acute kidney injury
- Painful hernia
- Haemorrhoids

Initially five clinical areas were highlighted for consideration by national clinical leads, these were:

Low risk acute kidney injury – stage 2

Haemorrhoids

Electrolyte disturbance

Biliary colic

Painful hernia

These scenarios were reviewed in turn to identify relevant ICD-10 codes and HRG4 codes with an additional analysis to understand current unplanned activity using the HRG4+ activity data. The national reference costs data associated with HRG4+ provides useful but not specific unplanned activity data supplied by hospitals across the English NHS. The complication is that HRG4+ differs from HRG4 which is part of the national "payment by results" and the coding we supply in the AEC Directory. If the first four codes of an HRG are the same between HRG4+ and HRG4 it has been assumed that these HRGs are similar enough with some assumptions based around the impact of the construction of "with and without cc" or co-morbidities.

The national data we looked at provides us with unplanned activity split by:

- 0-2 day LOS
- 3 day LOS+

for all HRG4+ codes.

There were 2,756 HRG4+ codes in total. This included HRGs for children and trauma; some HRGs reflect planned inpatient activity and as a result will have 0 activity for unplanned care.

Using these data we are able to:

- identify potential HRGs and review associated ICD-10 codes for new clinical areas identified by national clinical leads
- highlight new clinical areas for consideration by national clinical leads

In order to support this decision making process we carried out the following analysis of HRG4+ activity. This analysis comprised of two assessments:

- **1. specificity** which assessed if the proportion of 0-2 LOS of stay unplanned activity is high enough for the HRG to be an indicator of potential for AEC care. The cut-off point was 45%.
- **2. substantial** which assessed if the volume of 0-2 LOS of stay activity was high enough to be considered.

There are two groups of HRGs – those associated with ICD-10 codes and those associated with OPCS codes. We considered those with ICD-10 codes only. Furthermore we did not consider those HRG4+s that did not match readily to current HRG payment system. Additional two clinical areas were identified through this process:

Other respiratory conditions

Inflammatory bowel disease

2 Directory of Clinical Conditions

Specialties

General Medicine	35
Trauma and Orthopaedics	54
General Surgery	58
Urology	62
Obstetrics and Gynaecology	66



General Medicine



Abnormal liver function	45					
Acute admissions from care homes/						
non-acute NHS Beds	49					
Acute headache	43					
Anaemia	46					
Asthma	38					
Cellulitis of limb	47					
Chronic obstructive pulmonary disease (COPD)	38					
Community-acquired pneumonia	39					
Congestive cardiac failure	40					
Deep vein thrombosis	36					
Diabetes	47					
Electrolyte disturbance	52					
End of life care	50					
Enteral feeding tube complications	48					
Falls including syncope or collapse						
First seizure	42					
Gastroenteritis	44					
Hypoglycaemia	46					
Inflammatory bowel disease	53					
Known oesophageal stenosis (stented/unstented)	48					
Low risk acute kidney injury	51					
Low risk chest pain	41					
Lower gastro-intestinal haemorrhage	44					
Lower respiratory tract infections without COPD	39					
Other respiratory conditions	52					
Painless obstructive jaundice	45					
Pleural effusions	37					
Pneumothorax	37					
Pulmonary embolism	36					
Seizure in known epileptic	42					
Self-harm and accidental overdose	49					
Supraventricular tachycardias and other						
unspecified tachycardias	40					
Transient ischaemic attack	41					
Upper gastro-intestinal haemorrhage	43					
Urinary tract infections	51					

General Medicine

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Urology

Deep vein thrombosis					Pulmonary embolism				
HRG Codes and Detail				HRG Codes and Detail					
QZ20Z	Deep Vein Thrombosis			DZ09B	Pulmonary Embolus with Intermediate CC				
				DZ09C	DZ09CPulmonary Embolus without CCDZ28ZPleurisy				
				DZ28Z					
% potential ambulatory care (primary ICD-10 coded admissions)				% potential ambulatory care (primary ICD-10 coded admissions)					
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%		ow: -30%	Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific Safety Issues (not Exhaustive)				Specific Safety Issues (not Exhaustive)					
Thrombophilia or possible malignancy.				Massive vs non-massive pulmonary embolism. Thrombophilia or possible malignancy.					
Evidence				Evidence					
NICE: Venous thromboembolism: http://bit.ly/1Uz4AhK				NICE: Venous thromboembolism: http://bit.ly/1Uz4AhK					

Pneumothorax								
HRG Code	es and Deta	ail						
DZ26A	Pneumot	norax or Intrathoracio	Injuries, with CC					
DZ26B	Pneumoth	norax or Intrathoracio	Injuries, without CC					
% potent	ial ambulat	ory care (primary ICD-10) coded admissions)					
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%				
Specific Sa	afety Issues	(not Exhaustive)						
Primary pneumothorax only. Clarity of success of aspiration.								
Evidence								
	al Disease t.ly/1G0W							

Pleural effusions								
HRG Code	es and Det	ail						
DZ16B	Pleural Ef	fusion with Intermed	iate CC					
DZ16C	Pleural Ef	fusion without CC						
% potent	ial ambulat	cory care (primary ICD-10	0 coded admissions)					
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%				
Specific Sa	afety Issues	5 (not Exhaustive)						
Transudate vs exudate. Para-pneumonic effusions.								
Evidence								
BTS: Pleural Disease Guideline: http://bit.ly/1G0WFUh								

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Asthma						c ob
HRG Cod	es and Detai	1			HRG Cod	des a
DZ15E Asthma without Intubation, with Intermediate CC					DZ21A	Cł sta
DZ15F	215F Asthma without Intubation, without CC					
					DZ21K	Cł wi
% potent	ial ambulato	ry care (primary ICD-10) coded admissions)		% poten	tial a
Lo 10–3	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%		ow: 30%
Specific S	afety Issues	(not Exhaustive)			Specific S	Safet
Assessme treatmen		severity using BTS a	sthma guidelines and	response to initial	See Table	2 8 N
Evidence					Evidence	
NICE: Ast	hma: t.ly/1WNxV	Viu			NICE: Ma http://b	-

Chronic obstructive pulmonary disease (COPD)							
HRG Code	es and Deta	ail					
DZ21A		Chronic Obstructive Pulmonary Disease or Bronchitis, with length of stay 1 day or less, discharged home					
DZ21J	Chronic Obstructive Pulmonary Disease or Bronchitis, without NIV, without Intubation, with Intermediate CC						
DZ21K		Dbstructive Pulmonar ntubation, without C	y Disease or Bronchiti C	s, without NIV,			
% potent	ial ambulat	ory care (primary ICD-10	0 coded admissions)				
Lo [.] 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%			
Specific S	afety Issues	(not Exhaustive)					
See Table 8 NICE COPD Guideline.							
Evidence							
NICE: Managing exacerbations of COPD: http://bit.ly/1UuDTPm							

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Commu	unity-acq	uired pneumonia	a		
HRG Cod	les and Deta	ail			
DZ11B	Lobar, Aty	pical or Viral Pneum	onia, with Intermedia	ite CC	
DZ11C	Lobar, Aty	pical or Viral Pneum	onia, without CC		
DZ23B	Bronchop	neumonia with Inter	mediate CC		
DZ23C	Bronchop	neumonia without C	C		
% poten	tial ambulat	Ory care (primary ICD-10	0 coded admissions)		
	ow: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issues	(not Exhaustive)			
for home through s	treatment.	BTS guidance sugges ute care or hospital s	CURB-65 score of 0 or ts that a CURB-65 sco upervised outpatient o	ore of 2 be managed	
Evidence					
NICE: Pne http://bi	eumonia: i t.ly/1S5jgT	Y			

Lower respiratory tract infections without COPD							
HRG Code	es and Det	ail					
DZ22B	Unspecifi	ied Acute Lower Resp	iratory Infection with	Intermediate CC			
DZ22C	Unspecifi	ied Acute Lower Resp	iratory Infection with	out CC			
% potent	ial ambula	tory care (primary ICD-10	0 coded admissions)				
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%			
Specific Sa	afety Issue	S (not Exhaustive)					
See Table 8 NICE COPD Guideline.							
Evidence							
NICE: Pne	umonia: <u>h</u>	ttp://bit.ly/1S5jgTY					
BTS: Coug	gh in adult	s: http://bit.ly/10of	<u>RXJE</u>				

Conges	tive cardi	ac failure			Suprav	entricula	ar tachycardias &	other unspecifie	d tachycardias
HRG Coc	HRG Codes and Detail				HRG Coc	HRG Codes and Detail			
EB03H	Heart Failu	ure or Shock, with CC			EB07H	EB07H Arrhythmia or Conduction Disorders, with CC			
EB03I	Heart Failure or Shock, without CC			EB07I	Arrhythr	nia or Conduction Dis	orders, without CC		
% poten	% potential ambulatory care (primary ICD-10 coded admissions)				% poten	tial ambula	atory care (primary ICD-1)	0 coded admissions)	
	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	=0	ow: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific S	Safety Issues	(not Exhaustive)			Specific S	Safety Issue	es (not Exhaustive)		
	or ecompens renal and ele	sation. ectrolyte monitoring.					rdiac aetiology. Electro criteria. Rate and/or r		
Evidence					Evidence				
NICE: Acute heart failure: <u>http://bit.ly/1OoSeMN</u> ESC: Acute and Chronic Heart Failure: <u>http://bit.ly/1OoSeMN</u>			ACC/AH/	A/ESC: Gui	ion: <u>http://bit.ly/1ZC</u> delines for the Mana <u>c</u> //bit.ly/239VMVI		th Supraventricular		

General Medicine

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Low ris	sk chest pain			Transie	nt ischae	emic attack		
HRG Codes and Detail				HRG Cod	HRG Codes and Detail			
EB01Z	Non-Interventional Acquired	Cardiac Conditions		AA29A	AA29A Transient Ischaemic Attack with CC			
EB10Z	Actual or Suspected Myocar	dial Infarction						
DZ28Z	Pleurisy			AA29B	Iransient	Ischaemic Attack wit	hout CC	
% poter	tial ambulatory care (primary ICD	10 coded admissions)		% potential ambulatory care (primary ICD-10 coded admissions)				
	Moderate: 30% 30–60%	High: 60–90%	Very High: >90%		ow: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific 2	Safety Issues (not Exhaustive)			Specific Safety Issues (not Exhaustive)				
Early risk	stratification and streaming.			ABCD score 'Crescendo TIAs', ie more than one TIA in a week. Aetiology. 2° prophylaxis. Timeliness of accessto Carotid Doppler and neurovascular service.				•••
Evidence				Evidence				
NICE: Acute coronary syndromes: http://bit.ly/1UP4eWY			NICE: Stroke: http://bit.ly/1XWWO8v Recommendation is for all suspected stroke to go to HASU.			SU.		

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First seizure							
HRG Code	es and Det	ail					
AA26A		; Balance, Cranial or I ary, with CC	Peripheral Nerve Disor	ders, Epilepsy or			
AA26B		; Balance, Cranial or I ary, without CC	Peripheral Nerve Disor	ders, Epilepsy or			
% potent	ial ambulat	tory care (primary ICD-10) coded admissions)				
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%			
Specific Sa	afety Issue	S (not Exhaustive)					
Full recovery and no atypical features. Screening tests (glucose, sodium, calcium) stable. Neuro-imaging for focal seizure Appropriate specialty follow up. Driving advice.							
Evidence							
NICE: Epilepsy: http://bit.ly/1QwpeOP							

Seizure in known epileptic								
HRG Code	es and Det	ail						
AA26A		; Balance, Cranial or I ary, with CC	Peripheral Nerve Disor	rders, Epilepsy or				
AA26B		; Balance, Cranial or I ary, without CC	Peripheral Nerve Disor	rders, Epilepsy or				
% potent	ial ambulat	tory care (primary ICD-10	0 coded admissions)					
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%				
Specific Sa	afety Issue	S (not Exhaustive)						
Seizure pattern. Trigger factors. Drug review.								
Evidence								
	NICE: Epilepsy: http://bit.ly/1QwpeOP							

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Acute headache					
HRG Code	es and Det	ail			
AA31A	Headach	e, Migraine or Cerebi	rospinal Fluid Leak, w	ith CC	
AA31B	Headach	e, Migraine or Cerebi	rospinal Fluid Leak, w	ithout CC	
% potent	ial ambulat	tory care (primary ICD-1	0 coded admissions)		
Lov 10-3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific Sa	afety Issue	S (not Exhaustive)			
		e and focal signs. If s ′- lumbar puncture (C	ub-arachnoid haemoi DPCS 4.3 A55.9).	rhage suspected CT	
Evidence					
NICE: Hea http://bit	idaches: t .ly/1XWX	XwX			

Upper gastro-intestinal haemorrhage							
HRG Code	es and Det	ail					
FZ38E	Gastroint Major CC	estinal Bleed, with le	ngth of stay 2 days or	r more, without			
FZ38F	Gastroint	estinal Bleed, with le	ngth of stay 1 day or	less			
% potent	ial ambulat	tory care (primary ICD-10) coded admissions)				
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%			
Specific Sa	afety Issue	S (not Exhaustive)					
Haemodynamic assessment. Transfusion criteria. Risk assessment using the postendoscopy Rockall Score or Blatchford Score.							
Evidence							
NICE: Acute upper gastrointestinal bleeding: http://bit.ly/1XWXUB8							

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Lower g	gastro-ir	ntestinal haemor	rhage		Gas
HRG Cod	es and Det	tail			HRG
FZ38E	Gastrointestinal Bleed, with length of stay 2 days or more, without Major CC				
FZ38F	Gastroin	testinal Bleed, with le	ngth of stay 1 day or	less	
					FZ36
% potent	ial ambula	tory care (primary ICD-1)	0 coded admissions)		% p
Lo [.] 10—3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	s (not Exhaustive)			Spec
Haemodynamic assessment. Transfusion criteria. Access to flexible sigmoidoscopy/ colonoscopy (OPCS 4.3 H28.1 H28.8 H28.9 H25.1 H25.8 H25.9 H22.1 H22.8 H22.9).					Haer inflar amb asses
Evidence					Evide
NICE: Sus	pected car	ncer recognition and r	referral: http://bit.ly/	/1sGjufT	CKS
	nagement t.ly/1NRx	of acute upper and lo <mark>U4H</mark>	ower gastrointestinal	bleeding:	

Gastroenteritis						
HRG Code	es and Det	ail				
FZ36D	Intestinal Infectious Disorders, with length of stay 2 days or more, with Major CC					
FZ36E	Intestinal Infectious Disorders, with length of stay 2 days or more, without Major CC					
FZ36F	Intestinal	Infectious Disorders,	with length of stay 1	day or less		
% potent	ial ambulat	tory care (primary ICD-10	0 coded admissions)			
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Sa	afety Issue	S (not Exhaustive)				
Haemodynamic, renal and electrolyte assessment. Consider the possibility of inflammatory bowel disease and pseudomembranous colitis. Consider use of ambulatory IV hydration. Immediate triage and transfer to isolation cubicle, assessed by a Senior Doctor and admission avoided where clinically appropriate.						
Evidence						
CKS NICE	CKS NICE: Gastroenteritis: http://bit.ly/1S5pF1D					

Painless obstructive jaundice				Abno	
HRG Codes and Detail					HRG C
GC12A	Malignar	nt Liver or Pancreatic Di	sorders, with length o	f stay 2 days or more	GC12/
GC12B	Malignar	nt Liver or Pancreatic Di	sorders, with length o	f stay 1 day or less	GC12E
GC15C	iC15C Non-Malignant Liver Disorders with Major CCs			GC150	
GC15D Non-Malignant Liver Disorders without Major CCs			GC15[
GC16C Non-Malignant Pancreatic or Biliary Disorders, with Major CCs				GC160	
GC16D Non-Malignant Pancreatic or Biliary Disorders, without Major CCs			GC16		
		tory care (primary ICD-10	· ·		GC01E
· · ·					% pot
Low: 1	0–30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	Low
Specific S	afety Issue	S (not Exhaustive)			Specifi
Consider CT scanni		ending cholangitis. Co	pagulation status. Ac	cess to ultrasound/	Consic CT sca
Evidence					Eviden
BSG: Pan BSG: Pan	creatitis: <u>h</u> creatic can	in adults: <u>http://bit.</u> ttp://bit.ly/1UjAzFx cer: <u>http://bit.ly/1S</u> ncer recognition and r	<u>pVgZ</u>	/ <u>1sGjufT</u>	CKS N NICE: I

Abnormal liver function					
HRG Cod	es and De	tail			
GC12A	Malignar	nt Liver or Pancreatic Di	sorders, with length o	f stay 2 days or more	
GC12B	Malignar	nt Liver or Pancreatic Di	sorders, with length o	f stay 1 day or less	
GC15C	Non-Ma	lignant Liver Disorders	with Major CCs		
GC15D	Non-Ma	lignant Liver Disorders	without Major CCs		
GC16C	Non-Ma	lignant Pancreatic or B	iliary Disorders, with	Major CCs	
GC16D	Non-Ma	lignant Pancreatic or B	iliary Disorders, with	out Major CCs	
GC01B	Liver Fail	ure Disorders without	Interventions		
% potent	ial ambula	tory care (primary ICD-10) coded admissions)		
Low: 10	0–30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	es (not Exhaustive)			
	Consider risk of ascending cholangitis. Coagulation status. Access to ultrasound/ CT scanning.				
Evidence					
CKS NICE	: Hepatitis	A: http://bit.ly/25X	E1ye		
NICE: Live	er conditio	ns: http://bit.ly/1PtC	<u>)cxA</u>		

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Anaem	aemia				
HRG Cod	es and Det	tail			
SA01D	Aplastic A	Anaemia with CC			
SA01F	Aplastic A	Anaemia without CC			
SA03D	Haemolytic Anaemia with CC				
SA03F	Haemolytic Anaemia without CC				
SA04D	Iron Defi	Iron Deficiency Anaemia with CC			
SA04F	Iron Defi	Iron Deficiency Anaemia without CC			
SA05D	Megaloblastic Anaemia with CC				
SA05F	Megaloblastic Anaemia without CC				
SA06F	Myelody	splastic Syndrome with	nout CC		
% potent	ial ambula	tory care (primary ICD-10	coded admissions)		
Low: 1	0–30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	S (not Exhaustive)			
	. Transfusio obin level.	on need is based on ha	aemodynamic impac	t not on	
Evidence					
CKS NICE	: Anaemia	– iron deficiency: <u>htt</u> – B12 and folate defi andbook: <u>http://bit.l</u>	ciency: <u>http://bit.ly</u>		

Hypoglycaemia						
HRG Code	es and Det	ail				
KB01A	Diabetes	Diabetes with Hypoglycaemic Disorders, 70 years and over				
KB01B	Diabetes with Hypoglycaemic Disorders, 69 years and under					
% potent	ial ambulat	tory care (primary ICD-1	0 coded admissions)			
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Sa	afety Issue	S (not Exhaustive)				
Applies only in patients with diabetes receiving hypoglycaemic agents. Review of cause and education of patient required. More caution with sulphonylurea associated/long-acting insulin induced hypoglycaemia.						
Evidence						
NICE: Dial	oetes: <u>htt</u> r	<u>://bit.ly/1ZR8HtG</u>				

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Diabete	25				
HRG Cod	es and Det	ail			
KB01A	Diabetes	with Hypoglycaemic	Disorders, 70 years a	nd over	
KB01B	Diabetes	with Hypoglycaemic	Disorders, 69 years a	nd under	
KB02B		Diabetes with Hyperglycaemic Disorders, 70 years and over with Intermediate CC			
KB02C	Diabetes	with Hyperglycaemic	Disorders, 70 years a	and over without CC	
KB02E		Diabetes with Hyperglycaemic Disorders, 69 years and under with Intermediate CC			
KB02F	Diabetes	with Hyperglycaemic	Disorders, 69 years ar	nd under without CC	
KB03B	Diabetes	with Lower Limb Cor	nplications, without N	lajor CC	
% potent	ial ambulat	tory care (primary ICD-1	0 coded admissions)		
	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	S (not Exhaustive)			
Symptom	severity as	ssessment. Haemody	namic, renal and elect	rolyte status.	
Evidence					
NICE: Dia http://bi	betes: t.ly/1ZR8 F	<u>ltG</u>			

Cellulitis of limb				
HRG Code	es and Det	ail		
JD03B	Intermed	iate Skin Disorders Ca	ategory 2, with Interm	iediate CC
JD03C	Intermed	iate Skin Disorders Ca	ategory 2, without CC	
JD04B	Intermed	iate Skin Disorders Ca	ategory 1, with Interm	iediate CC
JD04C	Intermed	iate Skin Disorders Ca	ategory 1, without CC	
JD05B	Minor Sk	in Disorders Category	2, with Intermediate	СС
JD05C	Minor Sk	in Disorders Category	2, without CC	
% potent	ial ambulat	tory care (primary ICD-10) coded admissions)	
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific Sa	afety Issue	S (not Exhaustive)		
			V require admission. A site (OPCS 4.3 X28.1).	
Evidence				
CKS NICE	: Cellulitis	– acute: <u>http://bit.ly</u>	/1ye0qAx	
NICE: Antimicrobial stewardship: http://bit.ly/1Q4J4FK				

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Known oesophageal stenosis (either stented or unstented) Entera					l fee
es and Det	ail			HRG Co	des a
FZ31E Disorders of the Oesophagus, with length of stay 2 days or more, without Major CC			days or more,	FZ33E	Sm wi
				FZ43B	No
Disorders	of the Oesophagus,	with length of stay 1	day or less		2 (
				FZ43C	Nc 1 (
ial ambulat	ory care (primary ICD-1	0 coded admissions)		% poter	ntial a
N: 0%	Moderate: 30–60%	High: 60–90%	Very High: >90%		ow: -30%
afety Issues	6 (not Exhaustive)			Specific	Safet
•				Local PE Mainten	_
				Evidence	ē
<mark>ly/23afw</mark> e role of er	Zt doscopy in the evalu	uation and manageme	ent of dysphagia:	NICE Gu enteral t <u>http://b</u>	ube f
	Disorders without N Disorders al ambulat v: 0% afety Issues pneumon eal rupture trointestina .ly/23afw e role of er	without Major CC Disorders of the Oesophagus, al ambulatory care (primary ICD-1 v: Moderate: 0% afety Issues (not Exhaustive) pneumonia. eal rupture/perforation trointestinal cancers: .ly/23afwZt	Disorders of the Oesophagus, with length of stay 2 without Major CC Disorders of the Oesophagus, with length of stay 1 al ambulatory care (primary ICD-10 coded admissions) V: Moderate: High: 0% 30–60% 60–90% afety Issues (not Exhaustive) pneumonia. eal rupture/perforation trointestinal cancers: .ly/23afwZt e role of endoscopy in the evaluation and manageme	Disorders of the Oesophagus, with length of stay 2 days or more, without Major CC Disorders of the Oesophagus, with length of stay 1 day or less al ambulatory care (primary ICD-10 coded admissions) v: Moderate: High: Very High: 30–60% 60–90% Very High: 90% afety Issues (not Exhaustive) pneumonia. eal rupture/perforation trointestinal cancers: .ly/23afwZt e role of endoscopy in the evaluation and management of dysphagia:	Disorders of the Oesophagus, with length of stay 2 days or more, without Major CC FZ43B Disorders of the Oesophagus, with length of stay 1 day or less FZ43B Disorders of the Oesophagus, with length of stay 1 day or less FZ43C al ambulatory care (primary ICD-10 coded admissions) % poter v: Moderate: High: Very High: 290% 10- 30–60% 60–90% >90% 10- 10- affety Issues (not Exhaustive) Specific pneumonia. eal rupture/perforation State I days or less Specific trointestinal cancers:

Enteral feeding tube complications						
HRG Code	es and Det	ail				
FZ33E		estinal Disorders, excl ith of stay 1 day or le	uding Inflammatory E ss	Sowel Disease,		
FZ43B	Non-Malignant Stomach or Duodenum Disorders, with length of stay 2 days or more, without Major CC					
FZ43C		Non-Malignant Stomach or Duodenum Disorders, with length of stay 1 day or less				
% potent	ial ambula	tory care (primary ICD-10	0 coded admissions)			
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Sa	afety Issue	S (not Exhaustive)				
	re-insertic nce of trac	, ,				
Evidence						
enteral tu		and parenteral nutri	rt for adults: oral nutr tion:	ition support,		

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Acute a	dmissio	ns from care hom	nes/non-acute NI	HS beds	Self-
HRG Cod	es and Det	ail			HRG (
No HRG codes					
		a#directory	<u>ow-get-and-re-use-</u>	cqc-information-	WA11
% potent	ial ambula	tory care (primary ICD-10) coded admissions)		% po
Lo 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%	1
Specific S	afety Issue	S (not Exhaustive)			Specif
Rapid acc care beds In these s	ess to spec , mental h ituations, t	eg advanced care direct cialist multidisciplinary ealth beds and other the principle should be are' unless absolutely	assessment. These ir community hospital k e to take the 'care to	nclude intermediate beds.	Suicid if phy: signifi
Evidence					Evider
BGS: Acu BGS: Silve NICE: Trai	te medicin er Book: <u>ht</u> nsition bet	or older people: <u>http:</u> e for older people: <u>ht</u> tp://bit.ly/1Hu4t3H ween inpatient hospit vith social care needs	tp://bit.ly/1XpvQFI al settings and comm	nunity or care home	NICE: NICE:

HRG Cod	es and Det	ail		
WA11X	Poisoning, Toxic, Environmental and Unspecified Effects, with Intermediate CC			
WA11Y	Poisoning, Toxic, Environmental and Unspecified Effects, without CC			
% poten	tial ambulat	tory care (primary ICD-10	0 coded admissions)	
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific S	afety Issue	S (not Exhaustive)		
if physica		DSH does not require	ntal health response (n admission to an acute	-
Evidence				
	f-harm: <u>htt</u>	<u>p://bit.ly/1UdbajR</u>		

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Urology

End of life care					Falls		
HRG Cod	es and Det	ail			HRG		
No HRG	The General Medical Council (GMC) defines patients 'approaching						
codes	the end of life' when they are likely to die within the next 12 months.						
	There are no specific HRG/ICD-10 codes. Review against local Palliative Care Cordinating Systems, GP registers and/or hospital records for						
		references for place c Ith including symtom		deterioration in	WA2		
	their nea	ith including symtom	management.		WA2		
					WA2		
% potent	ial ambula:	tory care (primary ICD-10	0 coded admissions)		% po		
	Low: Moderate: High: Very High: 10–30% 30–60% 60–90% >90%						
Specific S	afety Issue	S (not Exhaustive)			Spec		
Prior planning of potential scenarios including patient, family and multidisciplinary team (ie advance care directives). Rapid access to specialist ambulatory multi-disciplinary care.					Exclu dysrh new		
Evidence					Evide		
		rds: End of life care fo	or adults:		NICE		
http://bit.ly/1Md6sbP							

Falls including syncope or collapse

HRG Codes and Detail

EB08H	Syncope	Syncope or Collapse, with CC					
EB08I	Syncope	Syncope or Collapse, without CC					
WA22X	Other Sp	ecified Admissions or	Counselling, with Int	ermediate CC			
WA22Y	Other Sp	ecified Admissions or	Counselling, without	CC			
WA23X	Falls with	out Specific Cause, v	vith Intermediate CC				
WA23Y	Falls without Specific Cause, without CC						
% potent	% potential ambulatory care (primary ICD-10 coded admissions)						
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%			
Specific Safety Issues (not Exhaustive)							
Exclusion of significant cardiovascular risk – eg high-grade AV block or high risk dysrhythmia. Osteoporosis assessment. Access to specialist falls assessment. If new onset of falls, consider acute illness as precipitant.							
Evidence							
NICE: Falls	s in older p	people: <u>http://bit.ly/</u>	1UPgmY7				
NICE: Ost	eoporosis:	http://bit.ly/10pfL	<u>gF</u>				
		of comparison on (the					

NICE: Transient loss of consciousness ('blackouts'): http://bit.ly/1Uv7dVV

Urinary tract infections				
HRG Cod	es and Det	ail		
LA04E	-	r Urinary Tract Infectio rmediate CC	ons, with length of st	ay 2 days or more,
LA04F	Kidney o without	5	ons, with length of st	ay 2 days or more,
LA04G	Kidney or Urinary Tract Infections, with length of stay 1 day or less			
% potent	ial ambula	tory care (primary ICD-1	0 coded admissions)	
	Low: Moderate: High: Very High: 10–30% 30–60% 60–90% >90%			
Specific S	afety Issue	S (not Exhaustive)		
Impaired renal function – renal imaging. Bladder outflow obstruction. Foreign body. Increasing prevalence of multiresistant organisms especially with indwelling urinary catheters. Consider use of ambulatory IV hydration if dehydrated (OPCS4.3 X28.1). Pregnancy related UTI.				
Evidence				
			– men: <u>http://bit.ly/</u>	-
CKS NICE: Urinary tract infection (lower) – women: <u>http://bit.ly/1Q4TDIP</u> NICE: Antimicrobial stewardship: <u>http://bit.ly/1Q4J4FK</u>				

HKG COC	les and Det	tail				
LA07C	Acute Kidney Injury without CC					
LA07G	Acute Kidney Injury without Interventions, with Intermediate CC					
% poten	tial ambula	tory care (primary ICD-10	coded admissions)			
Low: 10–30%		Moderate: 30–60%	High: 60–90 <i>%</i>	Very High: >90%		
Specific Safety Issues (not Exhaustive)						
Specific S	Safety issues – monitor for signs of worsening AKI.					
-	sues – moni	itor for signs of worse				

Electrolyte disturbance					
HRG Cod	es and Det	ail			
KC05B	Fluid and	Electrolyte Disorders	, 70 years and over w	ith Intermediate CC	
KC05C	Fluid and	Electrolyte Disorders	, 70 years and over w	ithout CC	
KC05E	Fluid and	Electrolyte Disorders,	69 years and under w	vith Intermediate CC	
KC05F	Fluid and	Electrolyte Disorders	, 69 years and under	without CC	
% potent	ial ambula [.]	tory care (primary ICD-10	0 coded admissions)		
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	S (not Exhaustive)			
Patients v	vith severe	electrolyte abnormali	ities will require cardia	ac monitoring.	
Evidence					
NICE Guid	lance: Intra	venous fluid therapy i	n adults in hospital: <u>h</u> t	tp://bit.ly/2aevei3	
Patient.in	fo: Hypoka	alaemia: <u>http://bit.ly</u>	/1UAopte		
The Renal Association: Treatment of acute hyperkalaemia in adults: http://bit.ly/261zlav					
The Renal Association: CKD-Mineral and bone disorders (CKD-MBD): http://bit.ly/1UAqyVE					

Other respiratory conditions HRG Codes and Detail DZ19B Other Respiratory Diagnoses with Intermediate CC Other Respiratory Diagnoses without CC DZ19C DZ25A Fibrosis or Pneumoconiosis, with CC Fibrosis or Pneumoconiosis, without CC DZ25B DZ27E Respiratory Failure without Intubation, with Intermediate CC Respiratory Failure without Intubation, without CC DZ27F % potential ambulatory care (primary ICD-10 coded admissions) Very High: Low: Moderate: High: 60-90% 10-30% 30-60% >90% Specific Safety Issues (not Exhaustive) Assess for respiratory failure. Evidence BTS: Guidelines and Quality Standards: http://bit.ly/2agyClm

General Medicine

Inflammatory bowel disease					
HRG Cod	es and Det	ail			
FZ37F	Inflammatory Bowel Disease, with length of stay 1 day or less				
FZ37H	Inflammatory Bowel Disease, with length of stay 2 days or more, without Interventions, with Major CC				
FZ37J	Inflammatory Bowel Disease, with length of stay 2 days or more, without Interventions, without Major CC				
% potent	ial ambula	tory care (primary ICD-1	0 coded admissions)		
Lov 10-3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	s (not Exhaustive)			
Patients with abdominal pain, vomiting, fever and more severe symptoms will require in-patient care.					
Evidence					
NICE Quality Standard (QS81): Inflammatory Bowel Disease: http://bit.ly/2aCXFa3					

Trauma and Orthopaedics



Acutely hot painful joint	55
Appendicular fractures not requiring immediate internal fixation	55
Hip pain secondary to a fall and non weight bearing	57
Low risk pubic rami fractures	56
Non-traumatic vertebral fractures	56

Trauma and Orthopaedics

Acutely	Appendicular					
HRG Cod	les and Detail			HRG Cod	les and D	
HD23B	Inflammatory Spine, Joint or Connective Tissue Disorders, with Intermediate CC				Knee T	
					Foot T	
HD23C	Inflammatory Spine, Joint or Co	Inflammatory Spine, Joint or Connective Tissue Disorders, without CC				
HD26B	Musculoskeletal Signs and Sym	ptoms, with Interme	ediate CC	HA95Z	Hand [·]	
HD26C	Musculoskeletal Signs and Sym	HB91Z	Other			
% potent	tial ambulatory care (primary ICD-10	coded admissions)		% poten	% potential amb	
Low: 1	0–30% Moderate: 30–60%	High: 60–90%	Very high: >90%	Low: 1	0–30%	
Specific S	Safety Issues (not Exhaustive)			Specific S	afety Iss	
	of septic arthritis. c joint sepsis.			Neuro-va are frail c illness pre if the acu	older pec ecipitatin ite precip	
Evidence				requiring feasible.		
CKS NICE	E: Pre-patellar bursitis: <u>http://bit.</u>	ly/24VAQRS		Evidence	osteopo	
NICE: Art	hritis: http://bit.ly/1tAbCgC					
CKS NICE	CKS NICE: Knee pain – assessment: http://bit.ly/1WQPAIC				uma: <u>ht</u>	
	IPR, BOA, RCGP and BSAC: Guide	-	gement of the hot	NICE: Fall CKS NICE		
swollen jo	oint in adults: <u>http://bit.ly/1XZc</u>	swollen joint in adults: http://bit.ly/1XZciJ2				

Appendicular fractures not requiring immediate internal fixation

HRG Codes and Detail						
HA92Z	Knee Tra	Knee Trauma Diagnosis without Procedure				
HA93Z	Foot Trau	ıma Diagnosis withou	t Procedure			
HA94Z	Arm Trau	ıma Diagnosis withou	t Procedure			
HA95Z	Hand Tra	uma Diagnosis witho	ut Procedure			
HB91Z	Other No	on-Trauma Diagnosis v	vithout Procedure			
% potent	ial ambula	tory care (primary ICD-10) coded admissions)			
Low: 10)—30%	Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Sa	afety Issue	S (not Exhaustive)				
are frail ol illness pre if the acut requiring	Neuro-vascular assessment. A significant proportion of those currently admitted are frail older people who have fallen and sustained a fracture. Consider acute illness precipitating the fall which resulted in the fracture. Admission only required if the acute precipitating illness requires admission in its own right. In those requiring internal fixation, consider the possibility of fast track day case surgery if feasible. Osteoporosis assessment and falls assessment where appropriate.					
Evidence						
NICE: Trauma: http://bit.ly/1S8X7nG						
NICE: Falls	NICE: Falls in older people: http://bit.ly/1UPgmY7					
CKS NICE	: Osteopoi	rosis: http://bit.ly/10)pfLgF			

Trauma and Orthopaedics

Non-traumatic vertebral fractures			Low ris	k pubic	rami fractures				
HRG Codes and Detail HRG Codes and Detail									
HC27B	Degene	rative Spinal Conditior	ns with CC		HA91Z	HA91Z Hip Trauma Diagnosis without Procedure			
HC27C	Degene	generative Spinal Conditions without CC							
% poten	tial ambula	atory care (primary ICD-1	0 coded admissions)		% potential ambulatory care (primary ICD-10 coded admissions)				
	ow: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%			Very High: >90%		
Specific S	Safety Issue	es (not Exhaustive)			Specific Safety Issues (not Exhaustive)				
Consider	Neuro-vascular assessment. Consider metastatic disease or sepsis. Osteoporosis assessment.				visceral in	jury. sment and falls assessr	nent.		
Evidence					Evidence				
NICE: Lov	w back pa	in (early management)): http://bit.ly/23fY	<u>tp1</u>	NICE: Hip fracture: http://bit.ly/1Qbp5oZ				
NICE: Osteoarthritis: http://bit.ly/23fY4Cl				NICE: Falls in older people: http://bit.ly/1UPgmY7					
NICE: Falls in older people: http://bit.ly/1UPgmY7			NICE: Os	NICE: Osteoporosis: http://bit.ly/10pfLgF					
NICE: Osteoporosis: http://bit.ly/10pfLgF									
NICE: Su	spected ca	ncer recognition and	referral: <u>http://bit.ly</u>	//1sGjufT					

Trauma and Orthopaedics

Hip pain secondary to a fall and non-weight bearing						
HRG Code	es and Det	ail				
HA81B	Sprains, Strains or Minor Open Wounds, with Intermediate CC					
HA81C	Sprains, Strains or Minor Open Wounds, without CC					
% potent	ial ambulat	tory care (primary ICD-10	0 coded admissions)			
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Sa	afety Issues	S (not Exhaustive)				
excluded,	These patients require same day MRI to exclude a fracture. Once a fracture is excluded, admission for pain relief and mobilisation should not be required unless aspiration of the joint is necessary.					
Evidence	Evidence					
NICE: Hip fracture: http://bit.ly/1Qbp5oZ						
NICE: Falls	s in older p	eople: <u>http://bit.ly/</u>	<u>1UPgmY7</u>			
NICE: Ost	eoporosis:	http://bit.ly/10pfL	g <u>F</u>			



Abscesses requiring surgical drainage – perianal, breast wound	59
Acute abdominal pain not requiring operative intervention	59
Biliary colic	60
Haemorrhoids	61
Head Injury	60
Painful hernia	61

Acute abdominal pain not requiring operative intervention						
HRG Co	des and De	tail				
FZ47A		Non-Malignant General Abdominal Disorders, with length of stay				
	2 days or more, with Major CC					
57470						
FZ47B		lignant General Abdor or more, without Major	-	length of stay		
FZ47C	Non-Ma	lignant General Abdor	minal Disorders, with	length of stay		
	1 day or			<u> </u>		
% poter	ntial ambula	atory care (primary ICD-10) coded admissions)			
Low: 1	10-30%	Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific	Safety Issue	es (not Exhaustive)		,		
Rapid (sa	ame day) ao	ccess to ultrasound/CT	scanning.			
Evidence	.					
		Assessment: Systemati	ic reviews of clinical	decision tools for		
		ain: http://bit.ly/1Py9				
-		irgeons: Emergency Ge	eneral Surgery comm	issioning guide:		
	it.ly/1S9b mbulatory	zwa Emergency Care Hand	book: http://bit.lv/			
DADJ. A	moulatory	Linergency Care Hanu	1000K. 11(p.//bli.ly/			

Abscesses requiring surgical drainage – perianal, breast wound					
HRG Code	es and Det	tail			
FZ21A	Major Ar	nal Procedures, 19 yea	ars and over		
FZ22A	Intermed	liate Anal Procedures,	19 years and over		
FZ23A	Minor Ar	nal Procedures, 19 yea	ars and over		
FZ41E	Anal Disc	orders, with length of	stay 2 days or more,	without Major CC	
FZ41F	Anal Disc	orders, with length of	stay 1 day or less		
JA13Z	Non-Mal	ignant Breast Disorde	rs		
JA18B	Unilatera	I Minor Breast Proced	ures with Intermedia	te CC	
JA18C	Unilatera	l Minor Breast Proced	ures without CC		
JA19Z	Bilateral	Minor Breast Procedu	res		
% potent	ial ambula	tory care (primary ICD-10) coded admissions)		
Low: 10)—30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific Sa	afety Issue	S (not Exhaustive)			
		n to fast-track day case ent area setting.	e surgery if cannot be	e drained in	
Evidence	Evidence				
CKS NICE: Pilonidal sinus disease: http://bit.ly/1UncltW					
CKS NICE: Mastitis and breast abscess: http://bit.ly/1tu7DBv					
ASCRS: Management of Perianal Abscess and Fistula-in-Ano: http://bit.ly/1Pyc1nY					
NICE: Ant	NICE: Antimicrobial stewardship: http://bit.ly/1Q4J4FK				
BADS: An	BADS: Ambulatory Emergency Care Handbook: http://bit.ly/1QbP0wN				

Head injury			Biliary colic						
HRG Coc	des and Det	tail			HRG Cod	les and De	tail		
HA83C	E Head Injury without CC			FZ47A	FZ47A Non-Malignant General Abdominal Disorders, with length of stay 2 days or more, with Major CC			length of stay	
			FZ47B	Non-Malignant General Abdominal Disorders, with length of stay 2 days or more, without Major CC			length of stay		
					FZ47C	Non-Ma 1 day or	lignant General Abdo less	minal Disorders, with	length of stay
% poten	tial ambula	tory care (primary ICD-10) coded admissions)		% poten	tial ambula	atory care (primary ICD-1	0 coded admissions)	
-	ow: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%)W: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific S	Safety Issue	s (not Exhaustive)			Specific S	Safety Issue	es (not Exhaustive)		
See NICE	Guidelines	5.			Assess for	r acute cho	lecystits, cholangitis ar	nd pancreatitis which r	equire in-patient care.
Evidence			Evidence						
NICE: Head injury http://bit.ly/28KjcoN					issioning Guide: Galls ease: <u>http://bit.ly/28</u>		<u>bit.ly/2avvN8g</u>		

Painful hernia					
HRG Cod	es and Det	ail			
FZ18B		Umbilical or Femoral rmediate CC	Hernia Procedures, 19	9 years and over	
FZ18C	Inguinal, without (Hernia Procedures, 19	9 years and over	
FZ39E	Hernia Disorders, with length of stay 2 days or more, without Major CC				
FZ39F	Hernia Disorders, with length of stay 1 day or less				
% potent	ial ambulat	tory care (primary ICD-10	0 coded admissions)		
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	S (not Exhaustive)			
Signs of strangulation or obstruction require emergency surgery.					
Evidence					
ASGBI, British Hernia Society, RCS: Commissioning Guide: Groin hernia: http://bit.ly/2aD0KqE					
CKS NICE	: Scrotal sv	vellings: http://bit.ly	/ <mark>1WRqflk</mark>		

Haemorrhoids					
HRG Code	es and Det	ail			
FZ21A	Major An	al Procedures, 19 yea	irs and over		
FZ22A	Intermed	iate Anal Procedures,	19 years and over		
FZ23A	Minor Ar	al Procedures, 19 yea	ars and over		
FZ41E	Anal Disc	orders, with length of	stay 2 days or more	e, without Major CC	
FZ41F	Anal Disc	orders, with length of	stay 1 day or less		
% potent	ial ambulat	CORY Care (primary ICD-10) coded admissions)		
Lov 10—3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issues	5 (not Exhaustive)			
Evidence					
CKS NICE: Haemorrhoids: http://bit.ly/28KDHIn					



Acute painful bladder outflow obstruction	63
Acute scrotal pain	55
Chronic indwelling catheter related problems	64
Gross haematuria	64
Renal/ureteric Stones	63

Acute painful bladder outflow obstruction				Renal/			
HRG Cod	es and Det	ail			HRG Co		
LB16B	Urinary Ir	ncontinence or Other	Urinary Problems, v	vith Intermediate CC	LB40A		
LB16C	Urinary Ir	Urinary Incontinence or Other Urinary Problems, without CC					
LB28A Non-Malignant Prostate Disorders with CC							
LB28B	Non-Malignant Prostate Disorders without CC						
% potent	ial ambula	tory care (primary ICD-10) coded admissions)		% poter		
Lo 10–3	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	Lo 10-		
Specific S	afety Issue	S (not Exhaustive)			Specific		
Renal function. Beware acute retention without pain.					Beware s Renal fu		
Evidence					Evidence		
NICE: Lower urinary tract symptoms in men: http://bit.ly/23gdyGW					CKS NIC http://b		

HRG Cod	les and Det	ail				
LB40A	Urinary T	Urinary Tract Stone Disease with CC				
LB40B		Urinary Tract Stone Disease without CC				
•		tory care (primary ICD-1) (am a blimba		
	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%		
Specific Safety Issues (not Exhaustive)						
Beware single functioning kidney. Fever suggesting ascending sepsis. Renal function. Persistent pain despite analgesia.						
Evidence						

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Gross haematuria					
HRG Cod	es and Det	ail			
LA09F		General Renal Disorders with length of stay 2 days or more, with Intermediate CC			
LA09G	General F	Renal Disorders with le	ength of stay 2 days o	or more, without CC	
LA09H	General F	Renal Disorders with I	ength of stay 1 day o	or less	
LB37A	Miscellan	eous Urinary Tract Fir	ndings with CC		
LB37B	Miscellan	eous Urinary Tract Fir	ndings without CC		
LB38A	Unspecifi	Unspecified Haematuria with Major CC			
LB38B	Unspecifi	ed Haematuria witho	ut Major CC		
% potent	tial ambulat	ory care (primary ICD-10) coded admissions)		
	w: 30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific S	afety Issue	5 (not Exhaustive)			
Acute renal failure. Sepsis. Clot retention.					
Evidence					
British As	sociation o	f Urological Surgeons	:: Haematuria: <u>http:/</u>	/bit.ly/261oVI6	
NICE: Lov	ver urinary	tract symptoms in m	en overview: <u>http://</u>	bit.ly/23gdyGW	
CKS NICE	: Urologica	I cancers – recognitic	on and referral: http:	//bit.ly/1XZoqd0	

Chronic indwelling catheter related problems					
HRG Code	es and Det	ail			
LB15E	Minor Bla	adder Procedures, 19	years and over		
LB20A	Infection or Mechanical Problems Related to Genito-Urinary Prostheses, Implants or Grafts, with CC				
LB20B	Infection or Mechanical Problems Related to Genito-Urinary Prostheses, Implants or Grafts, without CC				
LB18Z	Attentior	to Suprapubic Blade	ler Catheter		
% potent	ial ambulat	ory care (primary ICD-10	0 coded admissions)		
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific Sa	afety Issues	6 (not Exhaustive)			
Sepsis. Acute renal impairment. HCAI risk.					
Evidence					
Healthcare Improvement Scotland: Urinary Catheterisation and Catheter Care: <u>http://bit.ly/1Zb2aeP</u> RCN: Catheter care: <u>http://bit.ly/21qFTc7</u>					

General Medicine	Trauma & Orthopaedics	General Surgery	Urology	Obstetrics & Gynaecology

Blue shaded condition/scenario cells indicate where nurses have identified a pathway that has the potential to be nurse and/or non-medical practitioner led; given advanced clinical skills and relevant training.

Acute scrotal pain					
HRG Code	es and Det	ail			
LB35A	Scrotum,	Testis or Vas Deferen	s Disorders with CC		
LB35B	Scrotum,	Testis or Vas Deferen	s Disorders without C	C	
% potent	ial ambulat	tory care (primary ICD-10) coded admissions)		
Lov 10–3		Moderate: 30–60%	High: 60–90%	Very High: >90%	
Specific Sa	afety Issues	S (not Exhaustive)			
US scan to assess risk of torsion.					
Evidence					
CKS NICE: Scrotal swellings http://bit.ly/21qG6vZ					

Obstetrics and Gynaecology



Diseases of Bartholin's gland	68
Early pregnancy bleeding	67
Hyperemesis gravidarum	67

Obstetrics and Gynaecology

Early pregnancy bleeding			Hyperemesis gravidarum						
HRG Codes and Detail				HRG Codes and Detail					
MB08Z	IB08Z Threatened or Spontaneous Miscarriage			NZ04D	Ante-natal or Post-natal Observation age under 16 or over 40 years with length of stay 0 days				
					NZ05C		atal or Post-natal Investi ngth of stay 0 days	gation age betweer	16 and 40 years
					NZ05D		atal or Post-natal Investi ngth of stay 0 days	gation age under 1	5 or over 40 years
					NZ08C		atal or Post-natal Investingth of stay 1 day or me		16 and 40 years
					NZ08D		atal or Post-natal Investingth of stay 1 day or me		6 or over 40 years
% poten	tial ambul	atory care (primary ICD-10) coded admissions)		% poten	tial ambul	latory care (primary ICD-10	coded admissions)	
Low: 1	0–30%	Moderate: 30–60%	High: 60–90%	Very High: >90%	Low: 1	0–30%	Moderate: 30–60%	High: 60–90%	Very High: >90%
Specific S	afety Issu	es (not Exhaustive)			Specific S	Safety Issu	Ies (not Exhaustive)		
Access to early pregnancy unit. Signs of sepsis or excessive bleeding. ERPC can be performed as a fast-track day case.			Exclude other causes of vomiting. Frequency of review (possibly daily) in early pregnancy unit. Degree of ketonuria. Monitoring of electrolytes. Thiamine and folate supplementation. Consider use of ambulatory IV hydration.						
Evidence			Evidence						
NICE: Ectopic pregnancy and miscarriage http://bit.ly/1WRhQEJ			CKS NICE: Nausea/vomiting in pregnancy: http://bit.ly/1UDMJXb						

Obstetrics and Gynaecology

Diseases of Bartholin's gland									
HRG Codes and Detail									
MA22Z	Lower Genital Tract Minor Procedures – Category 1								
MA23Z	Lower Genital Tract Minor Procedures – Category 2								
MB01A	Lower Genital Tract Disorders with CC								
MB01B	Lower Genital Tract Disorders without CC								
% potential ambulatory care (primary ICD-10 coded admissions)									
Low: 10–30%		Moderate: 30–60%	High: 60–90%	Very High: >90%					
Specific Safety Issues (not Exhaustive)									
Fast-track day case surgery.									
Evidence									
NICE: Evidence search Bartholin Cyst <u>http://bit.ly/2aF0cCE</u>									

3 Further Information and Support for Implementing Ambulatory Emergency Care



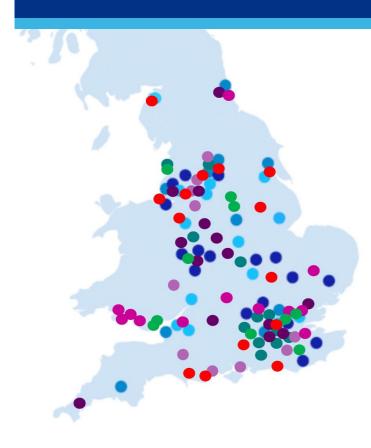
Ambulatory Emergency Care Website

The field of AEC is constantly evolving and we hope that this Directory will act as an initial guide point for you to learn more about this work.

Further information, support, tools and ideas to help you are available from the AEC website: www.ambulatoryemergencycare.org.uk

Please visit the website for the latest ideas on AEC, join the discussion forum and actively contribute to the continued evolution of Ambulatory Emergency Care!





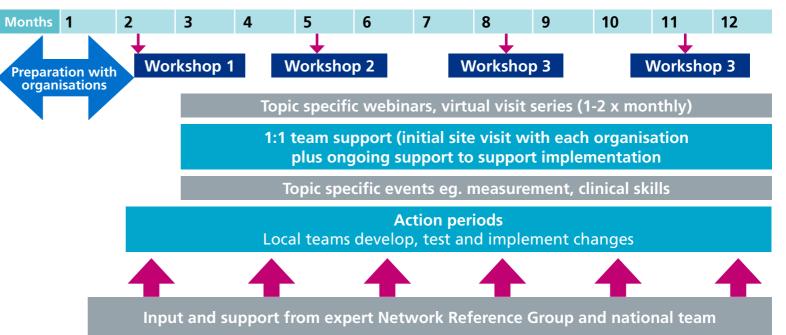
The Network has grown significantly since its inception in 2011. There are two waves of the programme in Spring and Autumn each year.

A significant network is emerging nationally with teams able to share best practice and support one another to implement proven changes quickly.

To Get Involved

If you would like to know more about AEC or participate in the next wave please contact us at **aec@nhselect.org.uk** or register your interest by going to our website **www.ambulatoryemergencycare.org.uk** and we will send you an information pack.

AEC Network Proposed Timeline 12 Month Programme





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For further information contact: 020 8520 9088 or <u>aec@nhselect.org.uk</u>

www.ambulatoryemergencycare.org.uk

info@nhselect.org.uk www.nhselect.nhs.uk

