# Population Health Management:

Opportunities and how to realise them

Conrane IHS
International Health Solutions

# Population Health Management:
## Opportunities and how to realise them

*Based on a presentation given by Dr David Cochrane at the Johns Hopkins ACG London Symposium April 7th 2017*
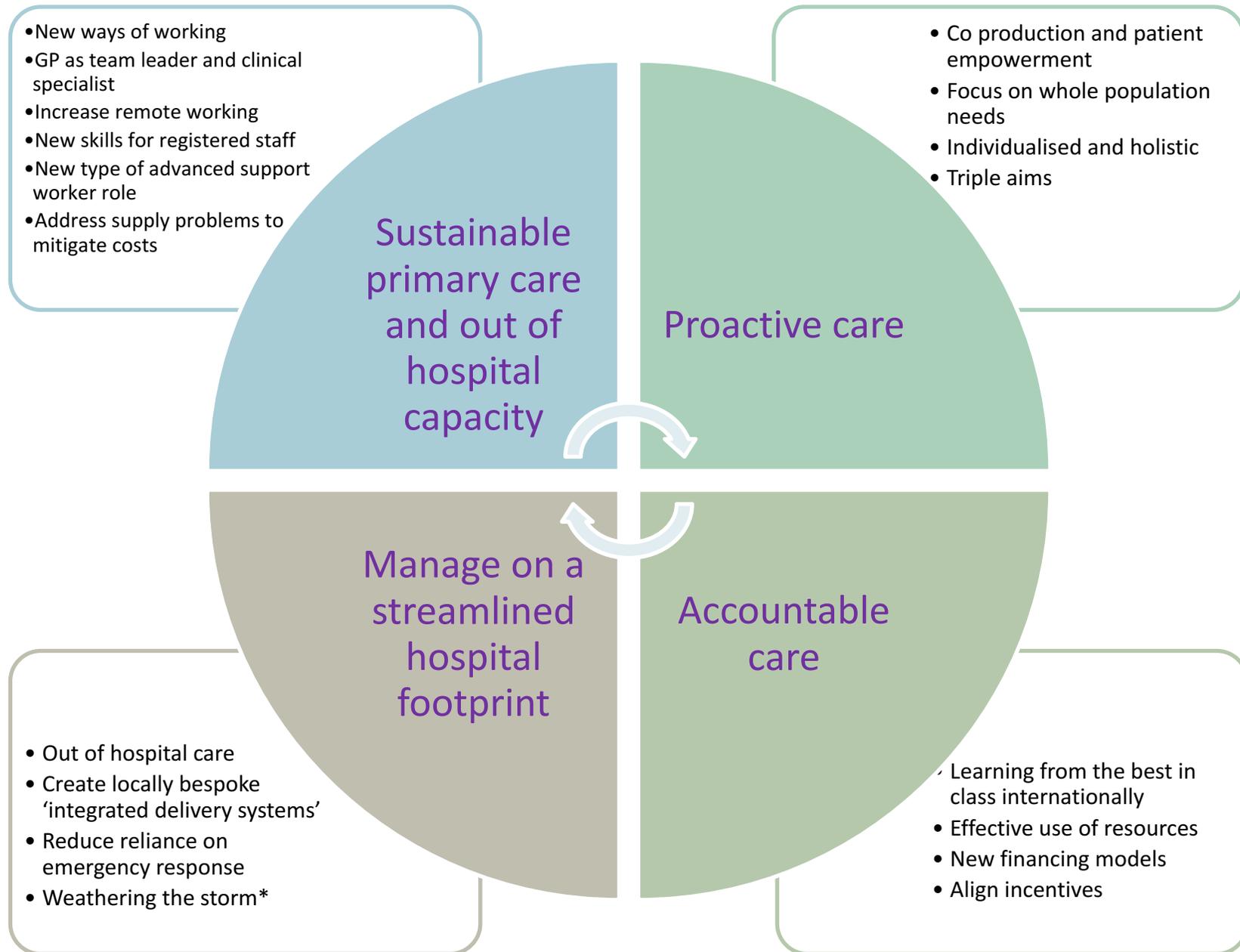
In this occasional paper we look at how whole population health management can progress the objectives of Sustainability and Transformation Plans (STPs).

Whole population health management is Ed Wagner's own extension of his Chronic Care Model and has been tried and tested in his home Accountable Care Organisation – Group Health.  The approach we propose draws on current practice  both within the NHS today, and international models  which are delivering these objectives today and could be readily adapted to the NHS.  Our other papers have agreed with the Kings Fund that more capacity is required in primary and community care.   Since 90% of this capacity is workforce, we also look at how staff supply and skills can be improved drawing on evidence from the UK sources such as the 2015  Primary Care Foundation Report: *Making Time in General Practice*.

Over the last 2 years we also have worked with a number of Vanguard Projects including a Multidisciplinary Community Provider using a  hub and spoke delivery  model. We also  work extensively on new ways of working, evidence-based pathways and triple-aims outcomes measurement.  We specialise in workforce development in acute, community and primary care in the NHS.   We also develop competences, occupational standards and have been successfully training  staff in managing patients with complex needs for over 10 years – adapting international best practice and learning to the needs of the NHS at local level.

We are therefore confident that *NHS locally-bespoke*  whole population management can be successfully implemented within a four-year timeframe as part of STP implementation and  enhances MCPs and  Primary Care Homes,.

# Key themes of STPs addressed by whole population health management

- New ways of working
- GP as team leader and clinical specialist
- Increase remote working
- New skills for registered staff
- New type of advanced support worker role
- Address supply problems to mitigate costs

- Co production and patient empowerment
- Focus on whole population needs
- Individualised and holistic
- Triple aims

**Sustainable primary care and out of hospital capacity**

**Proactive care**

**Manage on a streamlined hospital footprint**

**Accountable care**

- Out of hospital care
- Create locally bespoke 'integrated delivery systems'
- Reduce reliance on emergency response
- Weathering the storm*

- Learning from the best in class internationally
- Effective use of resources
- New financing models
- Align incentives

SEE ALSO  http://conrane.com/wp-content/uploads/Acute-pressures-on-the-NHS-A-perfect-storm.pdf

# 1. Overview

Core to most Sustainability and Transformation Plans, STPs  is a focus on more pro-active care for people with chronic disease.  For example, in <u>one</u> large STP footprint (1) , an analysis of the population using the Johns Hopkins ACGs risk adjustment tool has highlighted the opportunities for proactive programmes with co-production  as a core objective.   23% of the population could benefit from supportive self-care, to save potentially £65m in hospital tariffs.  They have differing levels of needs and thus support requirements from health and social care.  This is also evidenced as  the best means of reducing admissions (see page 4)

Core components of the service profiles are   care coordination or defragmentation  and aligning the  interventions with the needs profiles of those  sub-sets of the  population who can most benefit from.   Nationally about 1 in 4 people have at least one long-term condition.  This proportion increases with age,   deprivation and some aspects of ethnicity. This population is not homogenous and exhibits a range of needs from patients with a  stable, early on-set condition (which can be managed within enhanced  primary  care)  through to co-morbid patients with   high complexity,  and end of life care.   Hence in order to align  interventions  to differential need:

- *The single condition management service* is aimed at patients with a single condition which due to degree of progression, instability and adherence challenges require levels of intervention and  support  which cannot be offered within enhanced primary care.  This service can be led by a competent medical assistant working under the supervision of registered staff .

- *Clinical care coordination* is aimed at multi-morbid patients: those with a degree of complexity but who can be transitioned to supportive self-care with an intensive but time-limited programme with a practitioner and the primary care team.  This is co-production model.

- Advanced Illness including those with high degrees of complexity and major functional deficit which required a more protracted case management programme involving a multi-disciplinary team.

- Both services will be offered to nursing and residential home residents whose staff act as carers.

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The services access initially via the 24/7 single point of access at which point referrals will be initially triaged. Patterns of need will be initially articulated using risk stratification and evidence-based referral guidelines and then confirmed and  elaborated during detailed assessment at patient enrolment process.   Interventions  will be delivered by a key worker with multi-disciplinary team support for the most complex,   through face to face contact and/or  virtually using telephonic coaching and assistive technology.
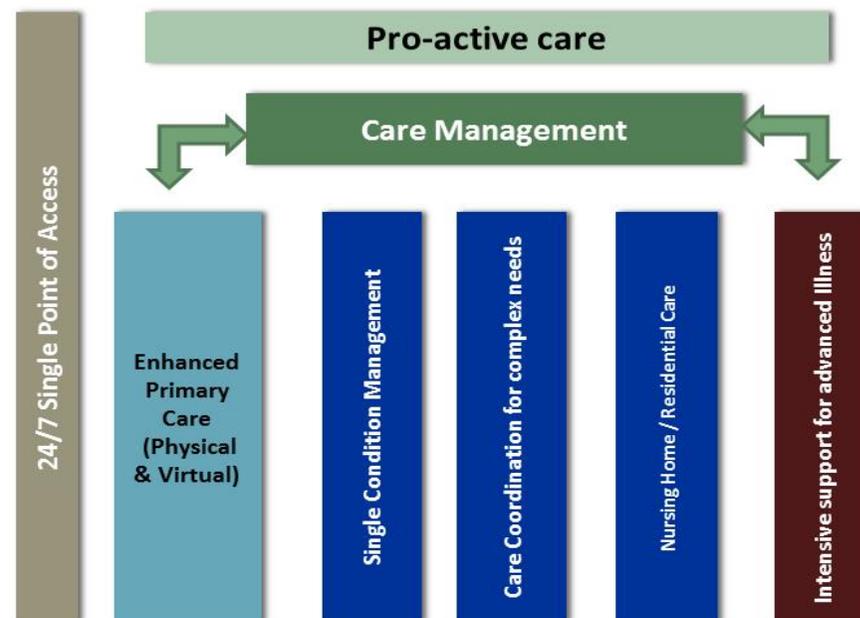


*Structure of the document from this point.*

*In section 2* we set out the expected population sub-sets to be offered   condition management and complex case management.  4 levels of need are identified.
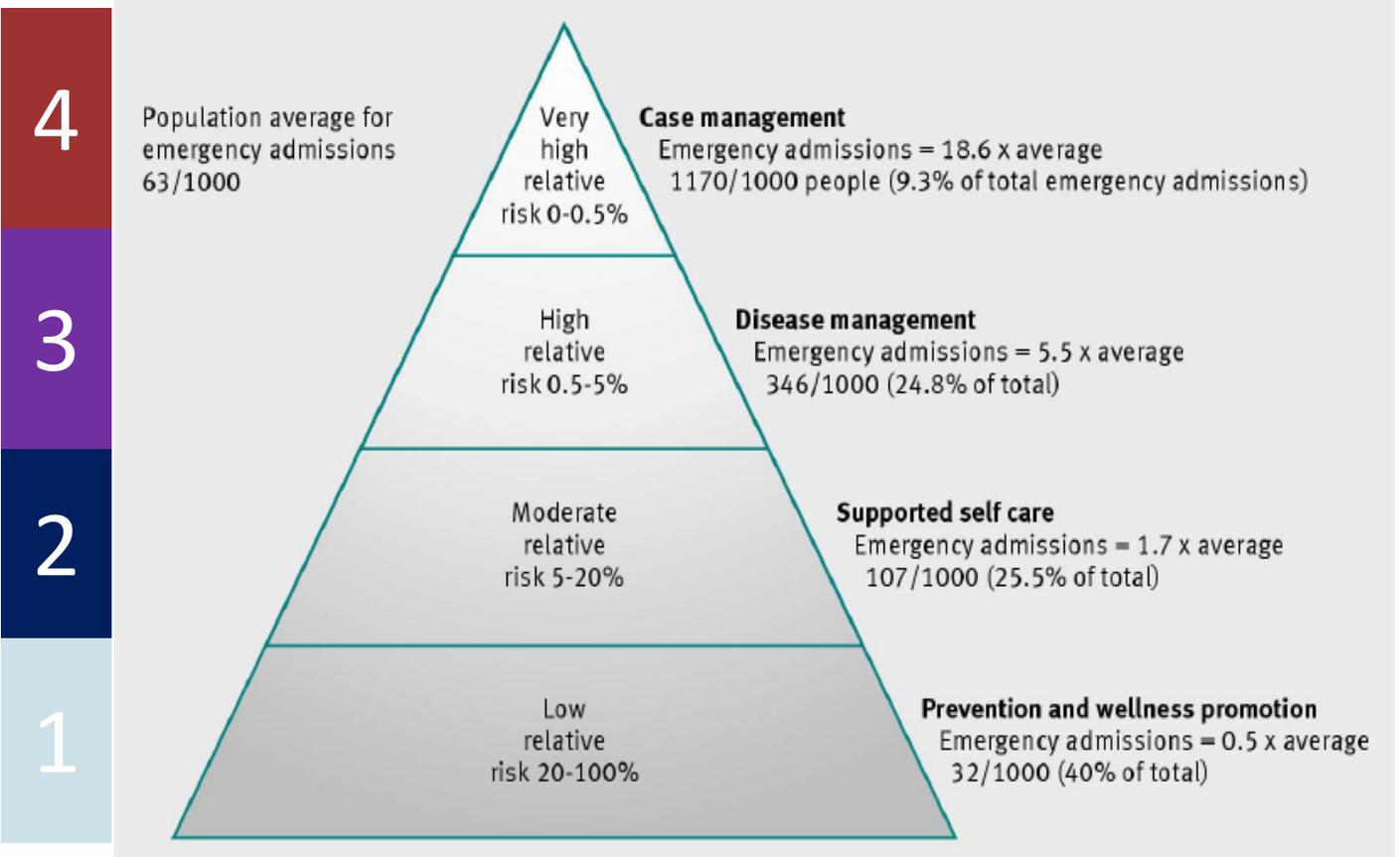
*Section 3* covers patient identification and enrolment,,   process descriptions and management pathways *for levels 2,  3 and 4 patients* and expected, patient engagement periods with the services and on-going referral.

*Section 4* sets out the key workforce roles and decision-support tool requirements

# Evidence shows to manage hospital admissions at scale we must address the whole spectrum of need

The limitations of the top 0.5 to 2% focus common in the NHS*
Confirmed by a recent analysis in a large STP footprint (see Text)

LEVEL

**4**
Population average for emergency admissions 63/1000

Very high relative risk 0-0.5%

**Case management**
Emergency admissions = 18.6 x average
1170/1000 people (9.3% of total emergency admissions)

**3**
High relative risk 0.5-5%

**Disease management**
Emergency admissions = 5.5 x average
346/1000 (24.8% of total)

**2**
Moderate relative risk 5-20%

**Supported self care**
Emergency admissions = 1.7 x average
107/1000 (25.5% of total)

**1**
Low relative risk 20-100%

**Prevention and wellness promotion**
Emergency admissions = 0.5 x average
32/1000 (40% of total)

*Many models are based on an assumption that interventions should focus on people at greatest risk of hospital admission..The epidemiologist Geoffrey Rose pointed out a potential pit fall in this argument. High-risk patients don't actually account for most admissions. Most admissions come from lower risk patients, Indeed in order to reduce emergency admissions by 10% by concentrating just on the 0.5% at highest risk of admission, more than the total number of admissions in this group would need to be avoided (107.5%). If the next group down were the focus of an intervention (the 4.5% of the population at high risk), 40% of their admissions would need to be avoided to produce an overall 10% reduction with the high risk group, An alternative approach is to target the intervention on a much larger group. This is shown in the diagram opposite. ***
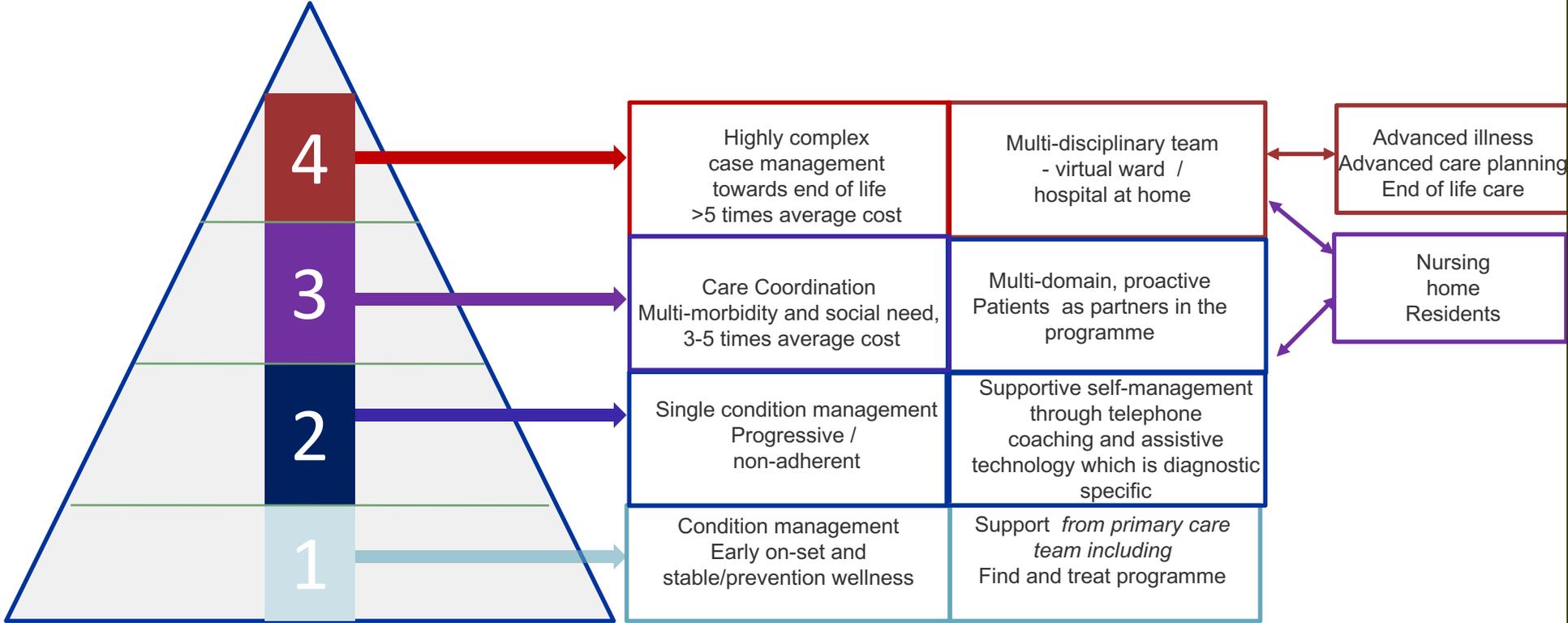
Fig 2 Rates of emergency hospital admission by different risk patients (based on Wennberg et al 1996).[9] Percentage of all emergency admissions is equal to the relative rate multiplied by the size of the population group

## 2. Populations subsets and levels of proactive care

The schematic represents the sub-sets of need within the population with at least one long-term condition:

(described in narrative on the next page)

Levels of population need

| Level | | |
|---|---|---|
| **4** | Highly complex case management towards end of life >5 times average cost | Multi-disciplinary team - virtual ward / hospital at home |
| **3** | Care Coordination Multi-morbidity and social need, 3-5 times average cost | Multi-domain, proactive Patients as partners in the programme |
| **2** | Single condition management Progressive / non-adherent | Supportive self-management through telephone coaching and assistive technology which is diagnostic specific |
| **1** | Condition management Early on-set and stable/prevention wellness | Support *from primary care team including* Find and treat programme |

Advanced illness
Advanced care planning
End of life care

Nursing home Residents

These subsets represent more of a continuum than precisely differentiated, homogenous groupings. In terms of prevalence, the proportion of patients in the population with one or more long-term conditions varies with a local health economy's age profile, ethnicity, deprivation and ultimately case-mix

# 2. 1 Populations subsets needing whole population management

> ## Description of the sub-sets of need within the population

*Level 1 condition management patients (managed by enhanced primary care)  Targeting low risk populations* 6arly diagnosis of a single long-term condition which may need daily medication or life-style management such as diet.  Patients will be capable of self-management and **adherence** and thus require only intermittent monitoring by the primary care team delivered by periodic review (depending on the diagnosis).  Includes a 'find and treat' programme for pre-diagnosis patients at risk.  Also secondary prevention and wellness maintenance

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*Level 2 condition management patients* Targeting moderate risk populations, focused  on managing 'climber' population to maintain health status and/or prevent exacerbation. These patients will have a predominant single life-threatening but manageable  long-term condition such as: diabetes, COPD, CHF, IHD, and sometimes alongside this less serious conditions such as blood pressure.   They will be on a treatment programme which requires specific significant clinical management such as daily medication, and monitoring such as weight, blood pressure, blood sugars etc.  These patients will require regular support contact to remain adherent to treatment programmes.

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*Level 3 patients represent* 90% of multi-morbid  patients (range of 3-7% of the total population)  often  with associated social and functional needs but not only less complex than level 4 (below)  they can benefit from a  time-limited intervention.  They will be typically be consuming between 2 and 5 times the average per capita cost, be at high risk of future admission, and have been in receipt of care from multiple practitioners in the previous 12 months. They will have high potential for self-management and motivation to engage with services more pro-actively.  Initially engaged and assessed  face to face, once care plans are in place, they may be transitioned to self-care with primary care team support or transfer to virtual  management and coaching alongside level 2 patients.

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*Level 4 highest-risk  patients* represent around 10% of multi-morbid, complex needs  patients (typically 0.5% of the total population), with progressive disease profiles, and very significant cognitive and functional deficits; often house-bound. They typically consume > 5 times the average health care costs(secondary and primary care) and have experienced two or more unscheduled hospital admissions in the previous year.  They have limited potential for self-management upon assessment, require the input of a multi-disciplinary team and need regular contact with services over a relatively protractive period. Some level 4 patients transition to advanced illness defined  as being in last 12 months of life.  The intervention then focuses on the development of an advanced  care plan and explicit end-of life  goal setting, as well as symptom management.

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*Advanced illness :*   Targeting individuals identified as being in last 12 months of life. Focused on development of anticipatory care plan and explicit goal setting, as well as symptom management.

*For residents of nursing  / residential home  offered bespoke  care management services*:  Targeting nursing home and residential care population (e.g. frail elderly, young people with physical disabilities), MCP care managers and nurses working in collaboration with the partners to provide care coordination and case management to all patients living in care homes.  Nursing home case managers  allocated to set care homes in order to respond early, provide preventative oversight, monitor changes, and communicate with treating GP. Supports early identification of an exacerbation of an illness allowing for early and proactive treatment. Includes step-up programmes  to match exacerbating cases to the right clinical resource and settings (e.g. capacity planning intermediate care resources).

# Applying the learning from the more successful Accountable Care Organisations – 'Revitalising Primary Care'

The development of STPs and experience from Vanguards has heightened in interest in Accountable Care Organisations in the NHS. This page shows the key learning which is relevant to the NHS as we seeks to implement STPs. as explained on subsequent pages. Developed largely under the US Affordable Care Act, these organisations are changing the way care is organised, financed and performance monitored. There are number of Pioneer ACOs which participate in a national evaluation scheme. They use the triple aims framework of (i) patient experience, (ii) clinical outcomes and (iii) overall cost control.

One of the most successful ACOs on all 3 criteria is Group Health which serves 500,000 people in Seattle and hinterland. It is a good model since it was established as a cooperative in the 1940s and like the NHS provided primary care from day one. It is the practice home of Ed Wagner. *The appendix to this document has more detail.* Not least it has demonstrated the positive effects of redesign and workforce development on delivering triple aims and reducing hospital utilisation, but also on addressing an emergent and pressing new challenge in the NHS, *sustaining staffing supply in primary and community care*\*. This issue as it effects the SW of England was reported in the Guardian of April 12th 2016 (see url)\*.

**Evidence based pathways by levels of need**

**Co-production care management**

*Patients are underutilised capacity:* Coulter

**Redesign in primary/ community care**

40% of GMS activity could be managed remotely

Efficient admin and practice management

**The right workforce**

MDT working led by GP

Pharmacy and social work input

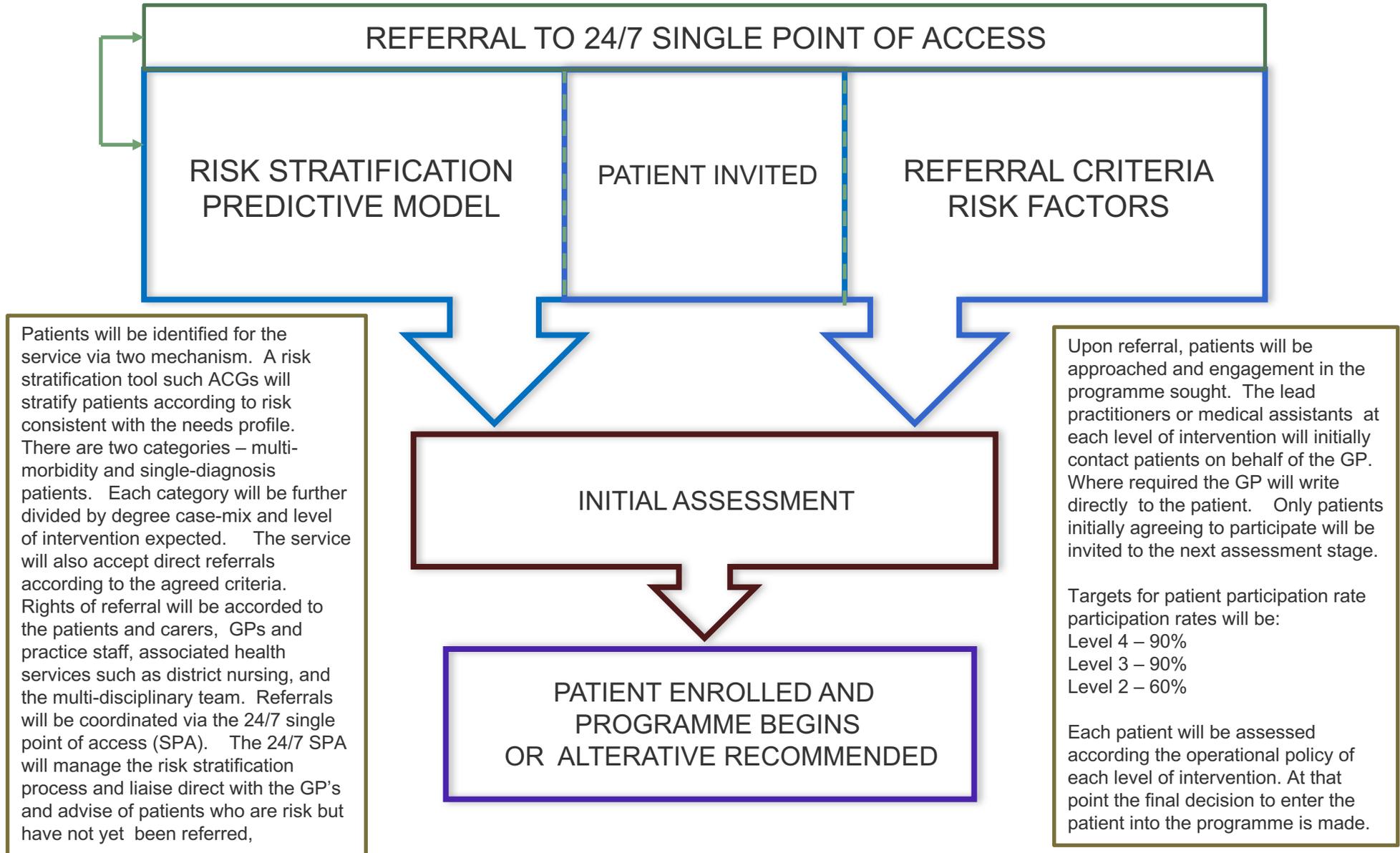New skills for registered practitioners

**Competent support workforce critical to success**

Physician assistants, medical assistants, paramedics

Current supply challenges are a stimulus to change

\* URL https://www.theguardian.com/society/2017/apr/12/two-in-five-gps-in-south-west-of-england-plan-to-quit-survey-finds

# 3. Patient identification, and enrollment - (Approach tried and tested in current NHS Conrane Projects)

**REFERRAL TO 24/7 SINGLE POINT OF ACCESS**

| RISK STRATIFICATION PREDICTIVE MODEL | PATIENT INVITED | REFERRAL CRITERIA RISK FACTORS |

**INITIAL ASSESSMENT**

**PATIENT ENROLLED AND PROGRAMME BEGINS OR ALTERATIVE RECOMMENDED**

Patients will be identified for the service via two mechanism. A risk stratification tool such ACGs will stratify patients according to risk consistent with the needs profile. There are two categories – multi-morbidity and single-diagnosis patients. Each category will be further divided by degree case-mix and level of intervention expected. The service will also accept direct referrals according to the agreed criteria. Rights of referral will be accorded to the patients and carers, GPs and practice staff, associated health services such as district nursing, and the multi-disciplinary team. Referrals will be coordinated via the 24/7 single point of access (SPA). The 24/7 SPA will manage the risk stratification process and liaise direct with the GP's and advise of patients who are risk but have not yet been referred,

Upon referral, patients will be approached and engagement in the programme sought. The lead practitioners or medical assistants at each level of intervention will initially contact patients on behalf of the GP. Where required the GP will write directly to the patient. Only patients initially agreeing to participate will be invited to the next assessment stage.

Targets for patient participation rate participation rates will be:
Level 4 – 90%
Level 3 – 90%
Level 2 – 60%

Each patient will be assessed according the operational policy of each level of intervention. At that point the final decision to enter the patient into the programme is made.

# 3. 1. Management pathway for level 2 patients (detailed pathway is condition specific)

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┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│  Initial triage to  │      │ Initiate self-      │      │ Develop joint       │
│  identify primary   │      │ planning and        │      │ contingency plan    │
│  condition and      │      │ motivational work   │──────│ with patient        │
│  eliminate complex  │      │ Deploy assistive    │      │                     │
│  need or level 1    │      │ technology and      │      │                     │
│  patient            │      │ train patient in    │      │                     │
│                     │      │ application         │      │                     │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘
```

**Initial triage to identify primary condition and eliminate complex need or level 1 patient**

**Initiate self-planning and motivational work**
**Deploy assistive technology and train patient in application**

**Develop joint contingency plan with patient**

**Refer to appropriate programme protocol**
CHF, Diabetes I, II,COPD,IHD, Asthma

**Liaise with patient GP to agree programme**

**Initiate patient to telephonic management and monitor at regular intervals as per condition parameters**

**Condition specific assessment**

**Draft care plan around treatment and adherence, lifestyle and agree with patient**

**3 monthly outcomes monitoring via patient contact and reports on KPIs**

**Refer on if appropriate (to level 1 or 3)**

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Stage of care led by

**Clinical care coordinator (registered)**

**Medical assistant**

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# 3. 2  Management pathway for level 3 patients

(detailed pathway is patient specific: this pathway has been developed, tried and tested in numerous Conrane Projects drawing upon the best international practice)



**Multi-domain assessment in the home setting**

**Agree programme objectives with patient, carers, home staff**

**Draft multi-domain care plan and agree with GP**
**Involve MDT if required**

**Coordinate further staff input as required**
(e.g. SW, MH, Re-ablement)

**Initiate self-planning and motivational work**
**Develop joint contingency plan with patient**

**Agree phased implementation and milestones with patient and carers (home staff)**

**Connect patient to community resources as required**

**Transition patient to telephonic management, deploy assistive technology and monitor**

**Discharge once agreed with patient that care plan fully implemented and stable for 4 weeks**

### Stage of care led by

**Clinical care coordinator (registered)**

**Medical assistant**

**3 monthly outcomes monitoring via patient contact and reports on KPIs**

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## TRANSITIONING TO SELF-MANAGEMENT

**In the red phase, (weeks 1 – 4)** patients are identified and assessed with the GP fully involved. They are engaged in a partnership approach via face-to-face assessment.

**In the amber phase,  (weeks 5-8)** the patient and practitioner sets the objectives and the joint holistic care plan and patient education programme is developed.  Multi-disciplinary team input is involved as required.  The plan is then set into train.
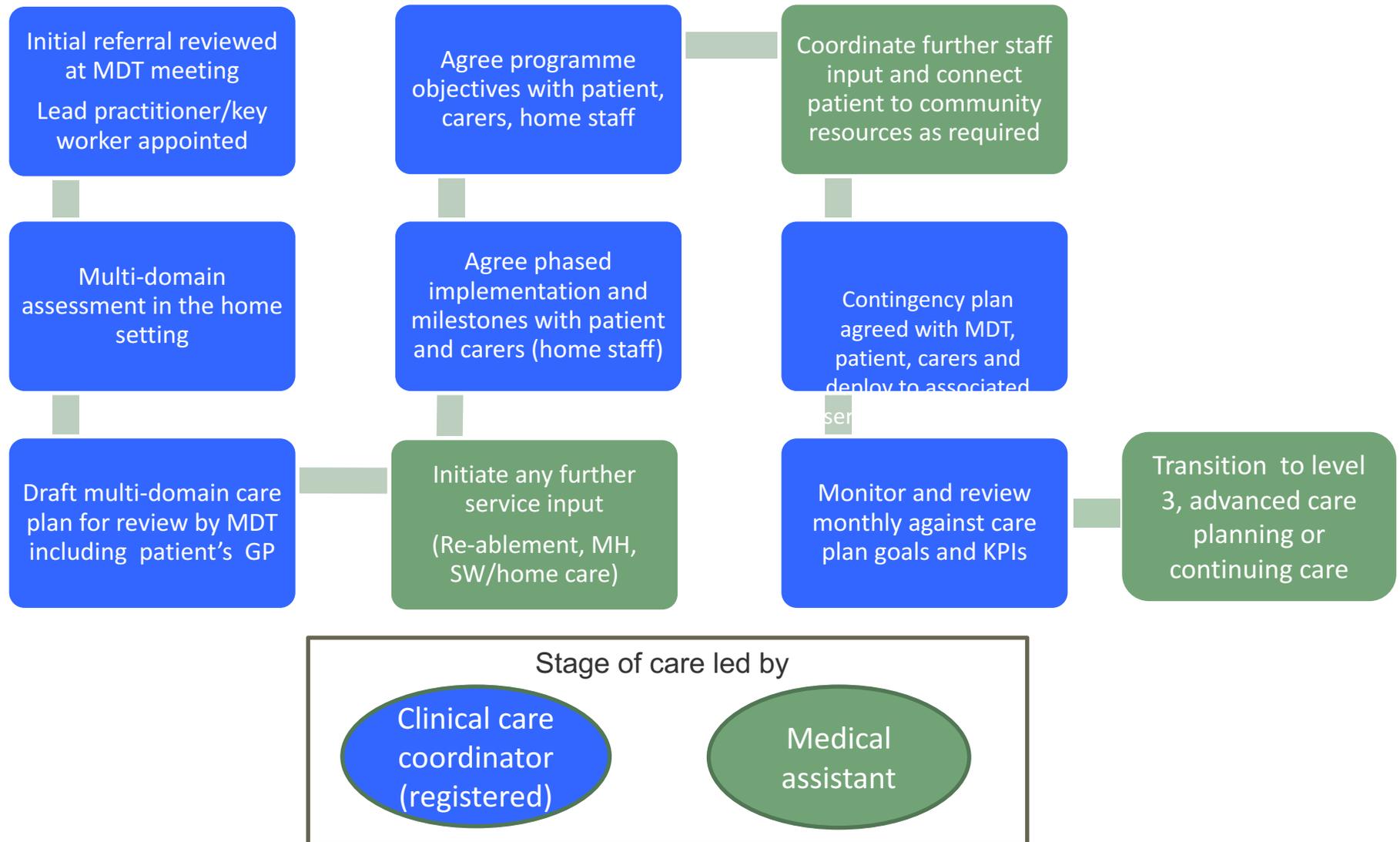
**In the green phase (weeks 9-13)** the patient has become largely self-managing, supported where necessary by mainstream primary and social care and/or community resources Measureable clinical and utilisation parameters are under control and the patient can be discharged into with periodic monitoring.

# 3.3 management pathway for level 4 patients
(detailed pathway is condition specific)

Initial referral reviewed at MDT meeting

Lead practitioner/key worker appointed

Multi-domain assessment in the home setting

Draft multi-domain care plan for review by MDT including patient's GP

Agree programme objectives with patient, carers, home staff

Agree phased implementation and milestones with patient and carers (home staff)

Initiate any further service input

(Re-ablement, MH, SW/home care)

Coordinate further staff input and connect patient to community resources as required

Contingency plan agreed with MDT, patient, carers and deploy to associated ser...

Monitor and review monthly against care plan goals and KPIs

Transition to level 3, advanced care planning or continuing care

Stage of care led by

Clinical care coordinator (registered)

Medical assistant

## 3. 4 Service engagement periods and on-going referral

| Patient profile | Expected period of engagement | Referral to on-going care |
|---|---|---|
| Level 4 | Up to *12* months<br>Review every 3 months | If patient improves significantly refer to level 3. If no progression, refer to continuing care or initiate advanced care planning |
| Level 3 | Average of 12 weeks<br>Maximum 6 months<br>3 monthly monitoring | Refer on to health coaching or primary care team including DNs. *If significant deterioration* refer to level 4 service |
| Level 2 | Remain engaged medium-term<br>3 monthly review | If adherence declines and complexity ensues refer to level 3 service. If progression halted and adherence improves refer to level 1 |
| **PATIENT ENGAGEMENT IS HOME-BASED INCLUDING RESIDENTIAL HOMES (where staff are carers)** | | |

The *core* workforce will comprise registered practitioners and medial assistants all assessed as competent in their respective roles to manage the client groups. These staff will work to evidence-based care pathways and practice manuals which along with the competence frameworks will be agreed with/accredited by the MCP. Other specialist roles will provide sessional input to the team overall. (see section 4)

*Patients with long-term conditions can both improve (the principle intention of the service), remain stable (the minimum aim) or further progress.* They thus move up and down the needs profile triangle. They should therefore be subject to regular review with a view to referring to more appropriate care as required. The primary aim should be to move patients down the continuum on care to a less intensive intervention. To illustrate this, Level 1 and 2 patients who remain stable may remain in the service for the medium term; if level 2 patients improve they can managed at level 1 within primary care Patients with multi-morbidity at level 4 who may improve will benefit from a level 3 intervention to progress to greater self-management. Others who make no progression and or decline should be referred on to a continuing care service or advanced care planning if in the last 12 months of life.

*Specific services offered to residents of nursing and residential care homes*: Targeting nursing home and residential care population (e.g. frail elderly, young people with physical disabilities), Specific MCP practitioners allocated to particular homes, working in collaboration with the partners to provide care coordination and case management to all residents. Nursing home case managers allocated to set care homes. Also supports admission avoidance by early identification of an exacerbation of an illness allowing for early and proactive treatment by MCP staff and strengthening the resilience of home-staff in clinical management capacity of less severe cases without need for referral. Includes step-up programmes to match patients to the right clinical resource and settings.

# 4. 1 Core workforce roles – indicative job contents

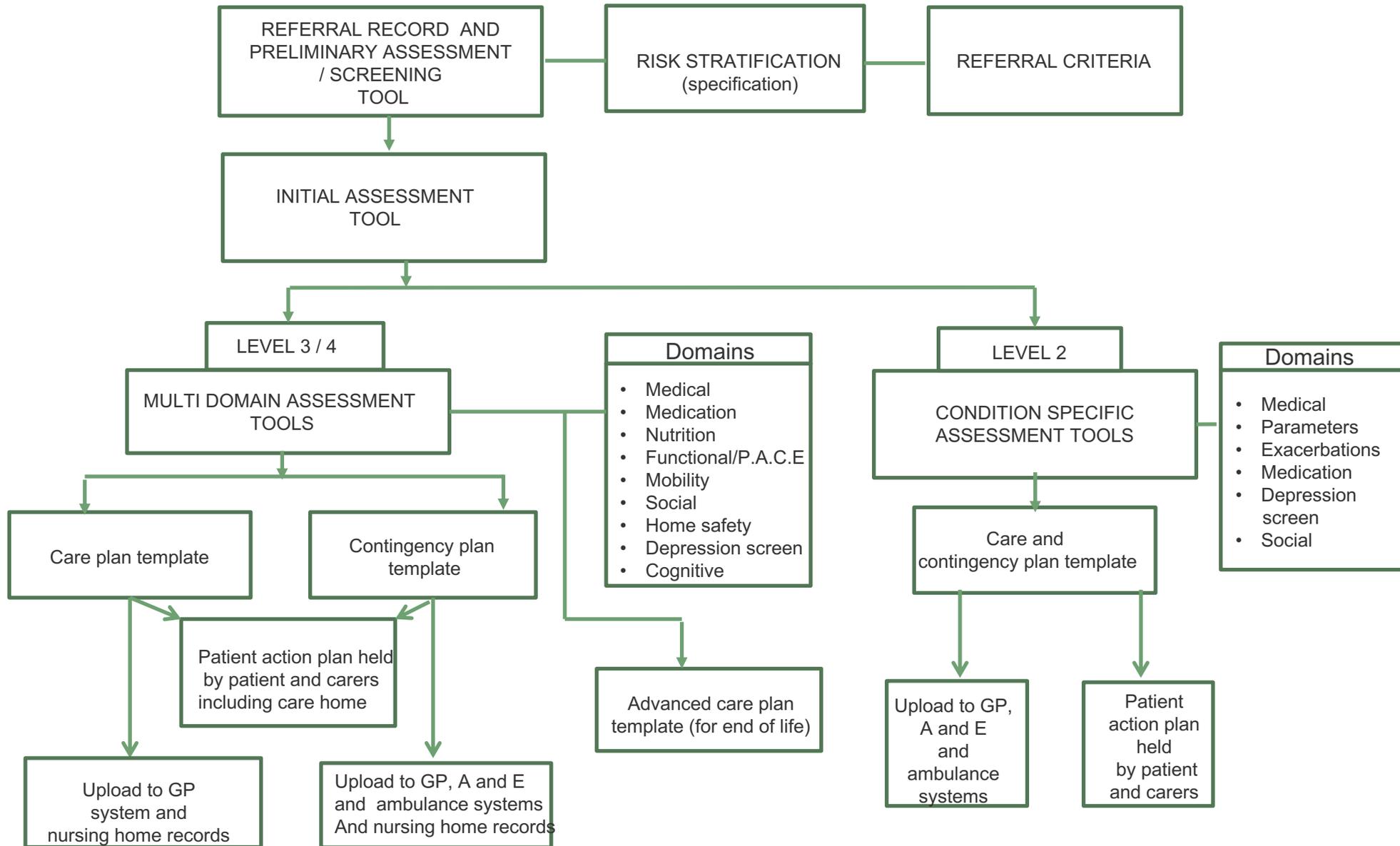| **Complex Care coordinator – Registered practitioner t qualified staff with core skills ctrained and mentored to competence in 6 months** | **Medical assistant (MA) job content – locally designed and trained in-service to competence framework over 18 months** |
|---|---|
| • Risk adjustment and stratification modelling<br>• Assessment and care planning<br>• Patient self-management coaching; education and counselling;<br>• Medication management (minimum);<br>• Motivational interviewing and managing people telephonically,<br>• Health coaching and monitoring<br>• Working in multi-disciplinary environment;<br>• Care transition planning; contingency/disease trajectory planning<br>• Management of patient pathways<br>• Coordination of additional health, social and 3rd sector l services.<br>• Clinical supervision of medical assistants<br>• Coordinates with staff and Nursing Homes on patient management<br>• Participate in clinical audit and outcomes reporting<br>• Disease management modules<br>• Non-medical prescribing<br><br>Practitioners should abide by the NMC Code of Conduct, and it clearly states that they "put the interests of people using or needing nursing services first' and the Coalition for Collaborative Care NHS England 2015"<br><br>Independently assessed as competent in above<br>Grade as Agenda for Change grade 7 | **Position Summary**<br>The medical assistant is responsible for a variety of case management duties working **under the direction of the registered staff**. The medical assistant is responsible for utilizing Nursing Process to ensure that quality care is provided to adult patients with chronic conditions and complex needs.<br>**Qualifications upon entry**<br>Current NVQ 2/3 certification<br>Previous experience as primary care HCA preferred<br>**Essential Functions of the Job**<br>• Customer service<br>• Manage Referrals<br>• Manage Recall Lists<br>• Provide health teaching, advocacy, counselling and assistance to a group or population of patients defined as at High Risk for Admission or Re-Admission and support what is in best interest of patient or group<br>• Engage with and managing patients on the telephone or in the home<br>• Monitor and coordinate chronic disease management and supports patient monitoring procedures<br>• Maintains a register of 3rd sector services<br>• Document virtual visits<br>• Records and collates outcomes KPIs<br>**Knowledge and skills**<br>• Understands clinical parameters of specific conditions<br>• Engagement and motivational skills;<br>• Risk adjustment and stratification modelling<br>• Understanding the various referring agencies;<br>• Risk management including understanding boundaries re practitioners<br>• Working in multi-disciplinary environment<br><br>Independently assessed as competent in above: Agenda for Change grade 4 |

All staff will work to the agreed patient flow processes and pathways for each level of care and the associated practice manuals and patient documentation. These will be agreed with / accredited locally. The competence frameworks for staff which complement these documents will be agreed with / accredited locally. The MA function includes activities already performed within the NHS by HCAs in primary and community care including support workers in Continuing Health Care .

## 4.2 Decision support tools



```
REFERRAL RECORD AND          RISK STRATIFICATION          REFERRAL CRITERIA
PRELIMINARY ASSESSMENT  ───  (specification)          ───
/ SCREENING TOOL
        │
        ▼
INITIAL ASSESSMENT TOOL
        │
   ┌────┴──────────────────────────────────────┐
   ▼                                            ▼
LEVEL 3 / 4                                   LEVEL 2
MULTI DOMAIN ASSESSMENT TOOLS                 CONDITION SPECIFIC ASSESSMENT TOOLS
```

**Domains**
- Medical
- Medication
- Nutrition
- Functional/P.A.C.E
- Mobility
- Social
- Home safety
- Depression screen
- Cognitive

**Domains**
- Medical
- Parameters
- Exacerbations
- Medication
- Depression screen
- Social

Care plan template

Contingency plan template

Care and contingency plan template

Patient action plan held by patient and carers including care home

Advanced care plan template (for end of life)

Upload to GP system and nursing home records

Upload to GP, A and E and ambulance systems And nursing home records

Upload to GP, A and E and ambulance systems

Patient action plan held by patient and carers

# The Group Health Experience - The journey to Comprehensive Primary Care through Whole Population Management (Sources Dr Rob Reid and Prof Ed Wagner)

## Background

- Largely urban population of 500,000 (Seattle) with established primary care system dating back to the 1940s.

- Co-operative whole service health plan and delivery owned by the members

- Home of the chronic care model developed by Ed Wagner who works there

- One of only 7 health care systems in the US that qualifies for 5 stars rating by the US DoH in older people's care (over 65s) and qualifies for maximum quality bonus payments under Medicare scheme

- Yet one of the lowest utilisers of reactive hospital care in the US *at the beginning of the initiative*

- Mid 2000s facing a problem with recruitment and low morale in the primary care centres - hubs of 10,000 population on average – particularly burn-out amongst doctors which was exacerbating recruitment and retention challenges

## Redesign

*Launched the Primary Care Medical Home pilot in one 10,000 population hub in 2006*

- Create multi-disciplinary teams
- Introduce care coordination
- Focus on whole population management – individualized, holistic care programmes
- Focus on patient empowerment, co-production, motivational work
- Change the team structure bringing in pharmacists, paramedics and new medical assistant function
- Introduce more remote working with patients on telephone and email
- Medical assistants (MAs) become the 'work-horses' of the practice supporting
- General medical services in an extended 'primary care HCA type role'
- Care coordination, health coaching of less complex needs patients
- Supporting the registered practitioners managing the more complex needs
- Supporting additional clinical audit requirements through data management and reporting

## Results today

- Cost effective as further savings on hospital costs pay for pilot

- GP morale addressed and burn-out reduced – now function as clinical team leaders, see fewer but more challenging patients

- Quality and patient satisfaction increased

- Major change in the workforce is in the medical assistant role (MA) which becomes the 'workhorse' of the systems. Registered nurses have lists and manage most complex patients. MAs do the routine GMS work and manage level 2 patients

- MAs ialso the least expensive staff member and quick to develop as requiring only 2 years in service training to bring up to full competence

- *Rolled out to whole system by 2013 now redefined as the Comprehensive Primary Care incorporating whole population management. Best practice innovation and core to the successful accountable care models*

http://content.healthaffairs.org/content/29/5/835.full. http://www.ehcca.com/presentations/medhomesummit3/reid_1.pdf
http://www.annfammed.org/content/12/2/142.full  https://www.ahrq.gov/sites/default/files/wysiwyg/professionals/systems/primary-care/workforce-financing/white_paper.pdf

# For further information
# Please contact us at

**Email:**  info@conrane.com

**Phone:**  Dr. David Cochrane  +44 (0)79 7073 9656
Office                      +44 (0)20 7281 2814

**Website:**  www.conrane.com

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