

Disability in an inner city HIV rehab clinic

Will Chegwidden

Senior Occupational Therapist, Neurosciences & HIV, Royal London Hospital, Barts Health NHS Trust

Barts Health NHS Trust

- UK's largest NHS Trust consisting six hospitals
- Turnover of £1.5billion
- Workforce of 15,000
- Catchment area of 2.5 million patients in East London
- Royal London is the newly built eighteen storey flagship
- Home to a major trauma centre and the helicopter emergency service



Royal London Hospital Therapy Service

- Redesigned in 2011
- Integrated OT/PT teams
- Seven day working from 0800 – 1800
- reduced capacity
- State of the art facilities (five therapy gyms) but currently under-utilised



HIV Services at the Royal London Hospital

Ward 13F

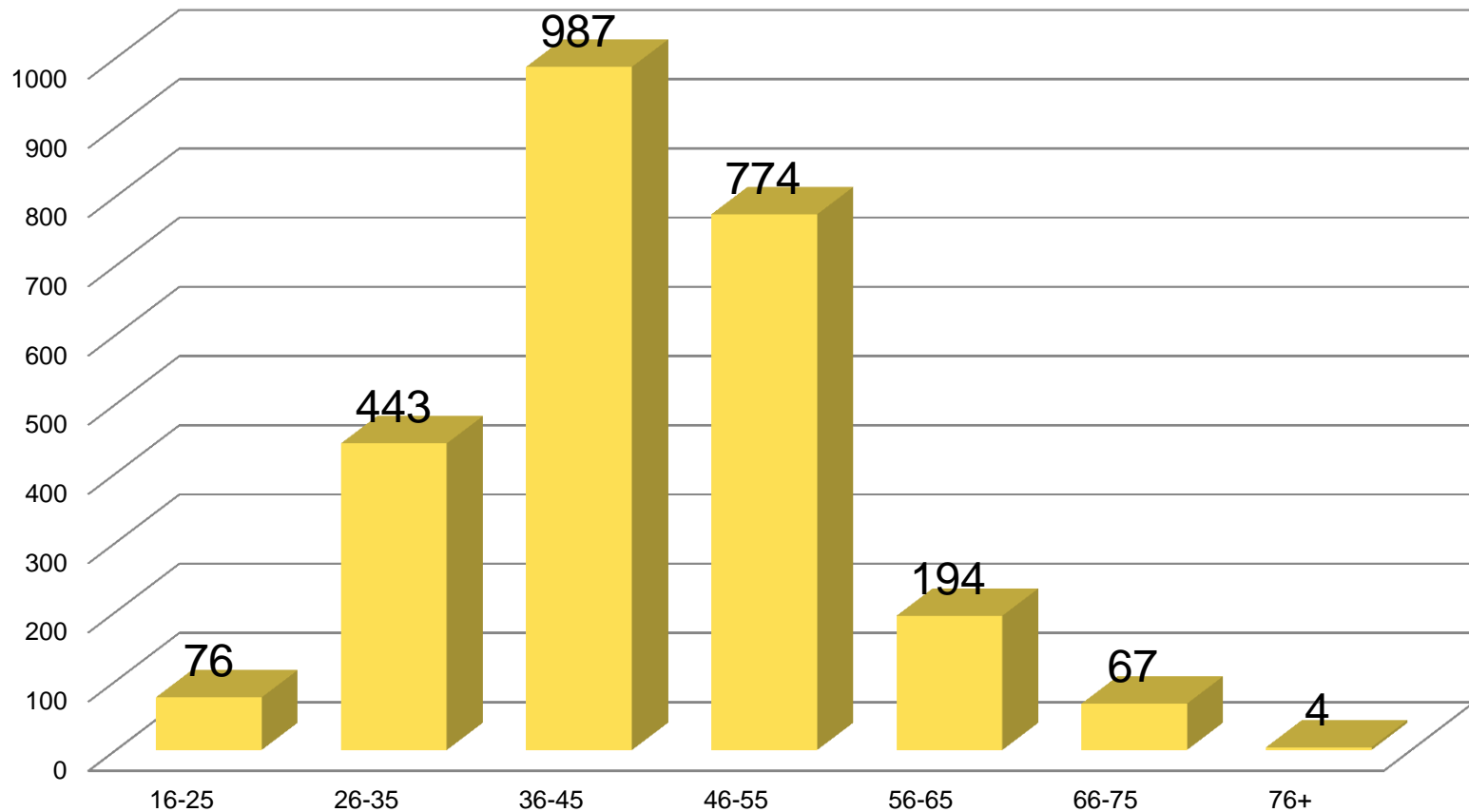
- 22 bed ward shared with respiratory
- Two four bed bays and fourteen ensuite rooms including ten negative pressure rooms

Grahame Hayton Unit

- Outpatient HIV and immunology clinic
- Still housed in an old building along with sexual health OP
- 2543 HIV attendees in 2012/13

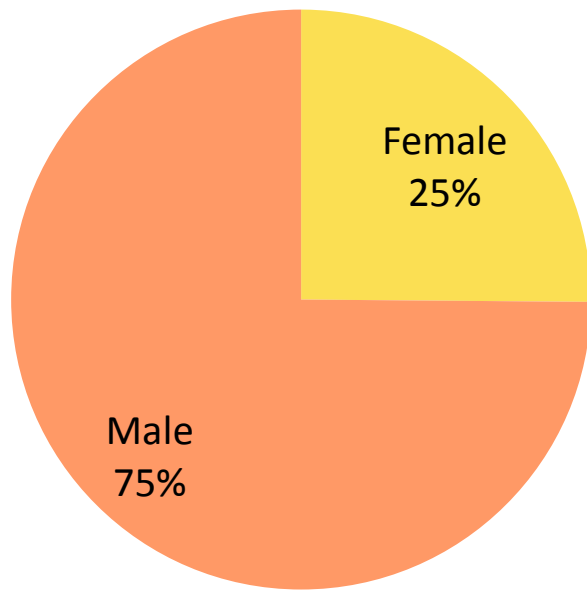
Grahame Hayton Unit – HIV outpatients

Patient numbers by age group

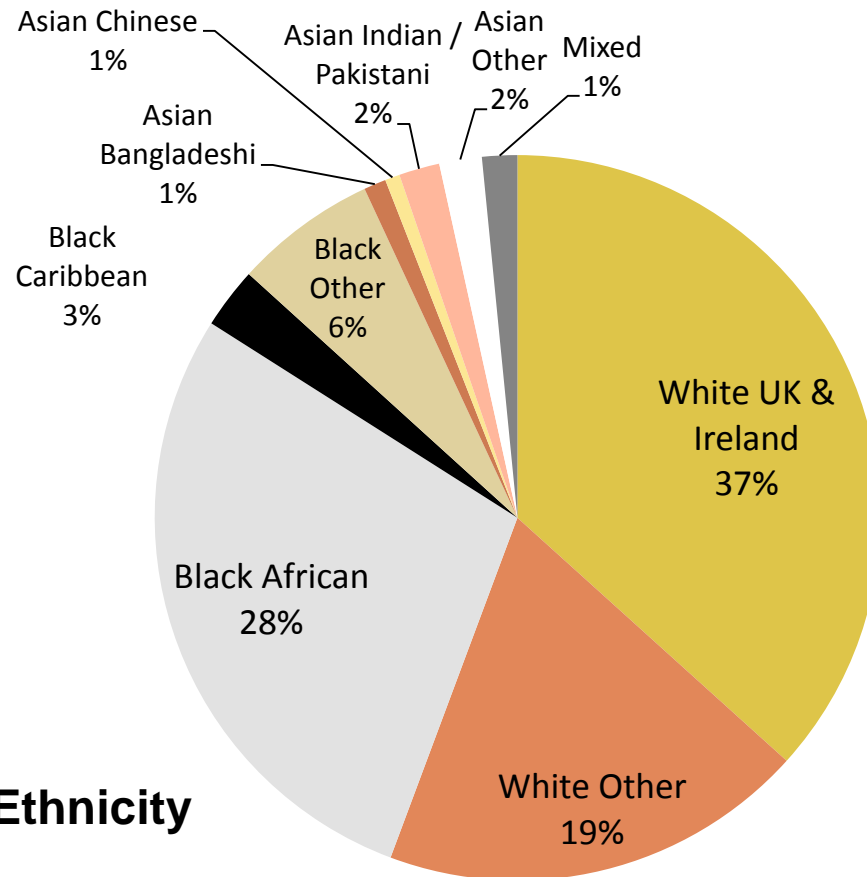


Grahame Hayton Unit – HIV outpatients

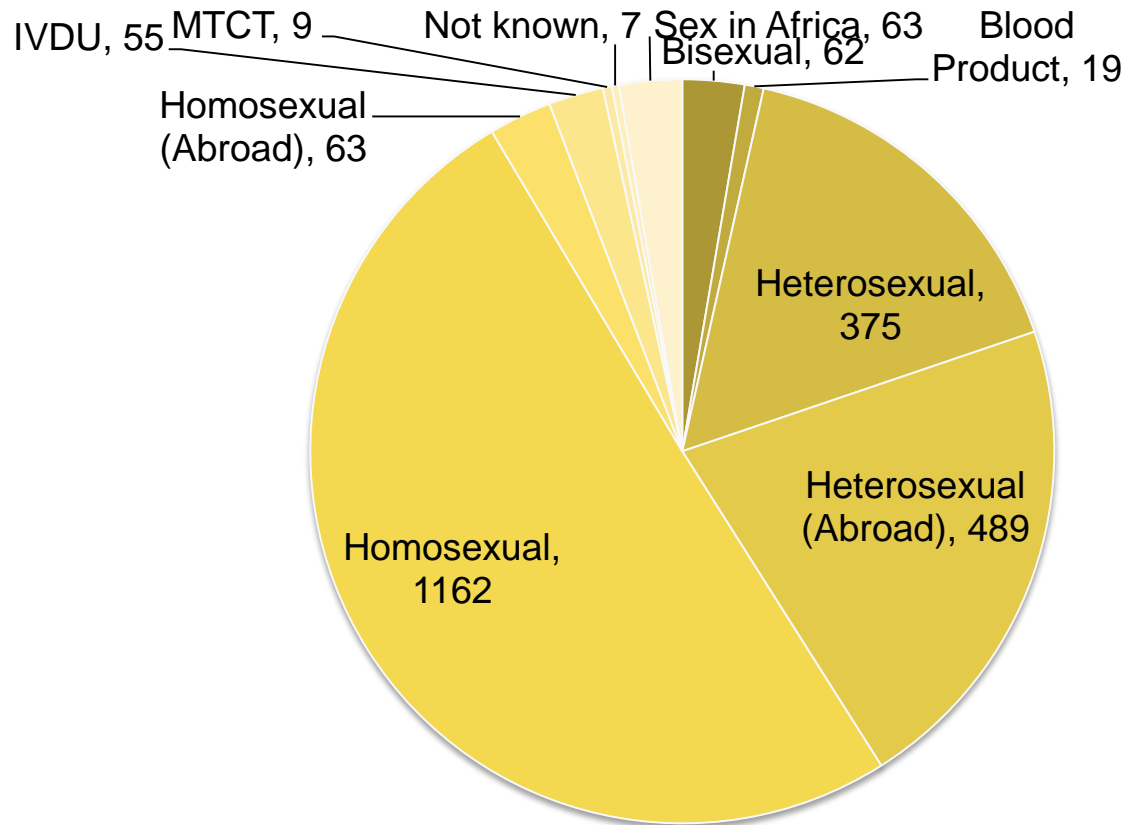
Gender



Ethnicity



Grahame Hayton Unit – HIV outpatients: risk factors



Graham Hayton Unit interdisciplinary team

- Medical staff
- Psychology
- Neuropsychology
- Consultant / advanced practitioner nursing
- Clinical Nurse Specialists
- Health advisors
- Specialist Pharmacy
- Specialist Social work
- Specialist OT*
- Specialist PT*
- Specialist Dietetics*

Grahame Hayton Unit structure

- HIV Consultant doctors have sub-specialty clinics, including:
 1. HIV & oncology
 2. HIV / hepatitis
 3. Lost to Follow-Up clinic
 4. HIV neuro/rehabilitation clinic – input from HIV doctor, neurology registrar, OT and PT
 5. HIV and older people's clinic – input from HIV doctor and geriatrician – OT input trialled but few referrals

GHU Occupational Therapy and Physiotherapy

- Referral sources: primarily clinic doctors, also clinic nursing staff, psychology, dietitians
- Referral reasons: Varied, must be HIV related
- Assessment: In the HIV clinic or within the rehabilitation services (gym, ADL suite) as indicated
- Interventions: Individual treatment sessions, signposting to other services, group programme (SMARTgroup)
- Currently undergoing redesign due to service changes

GHU 1:1 clinic examples of range of diagnoses

HIVE, old PML,
movement disorder

KS, COPD, frail,
alcohol misuse

Ca prostate, falls,
SDH, cognitive
issues

HIVE

toxoplasmosis, paranoid
schizophrenia

flare-up of
extrapyramidal
symptoms (previous
toxoplasmosis), lipo

spasticity and
retrobulbar neuritis,
isolated

post Burkitt's
neuropathy, LBP,
frail

HIVE 2011, ataxia,
blind

Marked fatigue knee
pain, poor sleep,
peripheral
neuropathy, poor
attender

Severe PML,
improving, wants to
live independently

Hep B, cancer, not
coping at home

GHU 1:1 clinic examples of range of assessments

PRPP

Functional
assessment

Home
assessment

Upper limb
assessment

Visual
screen

SARA

Self rating
fatigue
scales

ACE-III

GHU 1:1 clinic examples of interventions

Fatigue
management,
sleep hygiene

Return to work
advice /
interventions

Manual therapies
/ practice (often
joint with PT)

Home exercise
programme –
upper limb

ADL practice in
OT dept

Splinting and
orthoses

Referral to
voluntary sector

Referral for
community
rehabilitation

Referral to
psychology / SW
/ CNS

Referral to
neuropsychology

Equipment or
adaptations

SMARTgroup

SMARTgroup: initial set up (2005)

Outpatients

- with HIV related impairments / disabilities
- who needed a more intensive rehab programme than individual outpatient attendance
- aren't appropriate for a programme elsewhere

Recently discharged patients

- who needed a short period of top-up rehabilitation
- not available elsewhere
- typically working age patients post respiratory / systemic illness

Inpatients

- who could manage gym attendance
- who were already known to the inpatient team
- require rehabilitation or maintenance

SMARTgroup

- Programmes individualised to goals, with some individual and some group activity
- Assessments and interventions used evolved over time
- Also an opportunity for peer support and socialisation



SMARTgroup: Assessment completed pre/post

Strength

- One rep max

Endurance

- Six minute walk test

Flexibility

- Sit-and-reach

Anthropometry

- weight, height, mid-upper arm, bio-impedance

Functional

- initially trialled FIM/FAM and FAHI
- later changed to in-house functional screen and in house ten point VAS symptom rating scale

Goal setting

- in house four point goal setting (achieved, partly achieved, not achieved, not relevant)

Other measures as indicated

- e.g. Berg Balance, Jebsen-Taylor Hand Function Assessment, Perceive Recall Plan Perform

SMARTgroup symptom self rating scale

- Rating, on 1-10 (never – rarely – occasionally, sometimes – frequently – all the time)

I feel tired

I feel weak

I have difficulty
concentrating

I have difficulty
remembering
things

I have difficulty
walking long
distances

I have
problems with
coordination

I have pain

I have difficulty
sleeping

I have poor
appetite

SMARTgroup: Example programme

- Warm ups
- Cardiovascular (bike, treadmill)
- Resistance (multi-gym)
- Individualised programmes
 1. Hand function – strength, coordination
 2. Attention, recall, processing
 3. Balance, coordination (Wii fit)
 4. Functional (simulated shopping tasks)
- Education: fatigue management, diet, stress management
- Relaxation therapy, warm-down, stretches

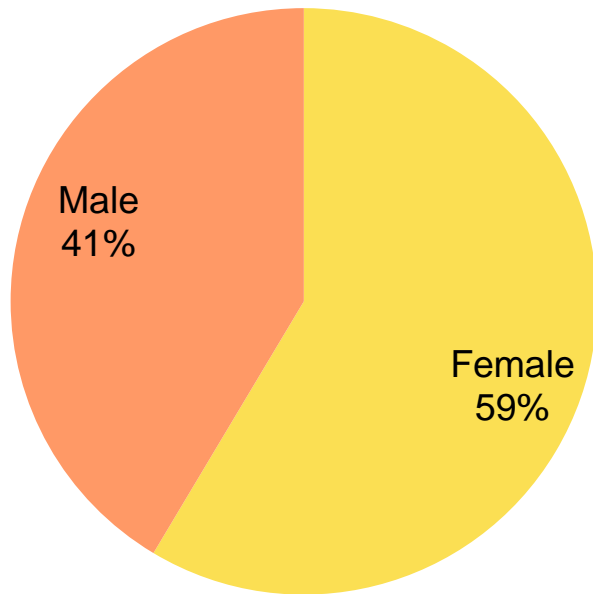


SMARTgroup: analysis

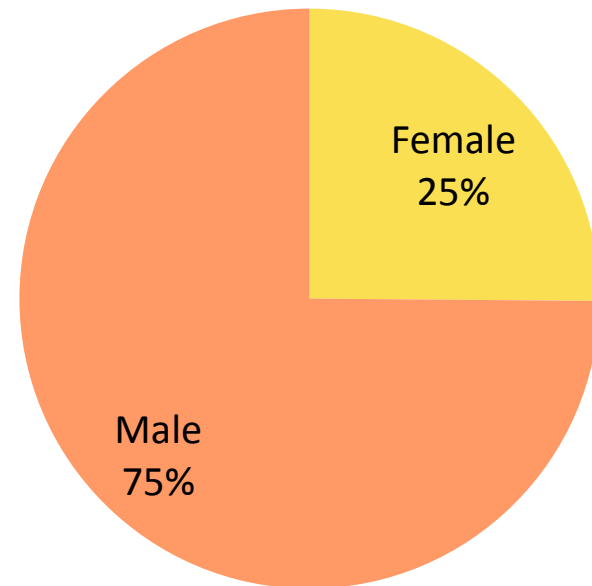
- Inclusion criteria:
 1. only patients who attended as an outpatient
- Methodology
 - Random selection of 70 sets of attendance data
 - Review of notes and coding for
 - primary diagnosis
 - primary presenting complaints
 - goal areas
 - completion and reasons for non-completion
 - barriers to attendance

SMARTgroup: Gender

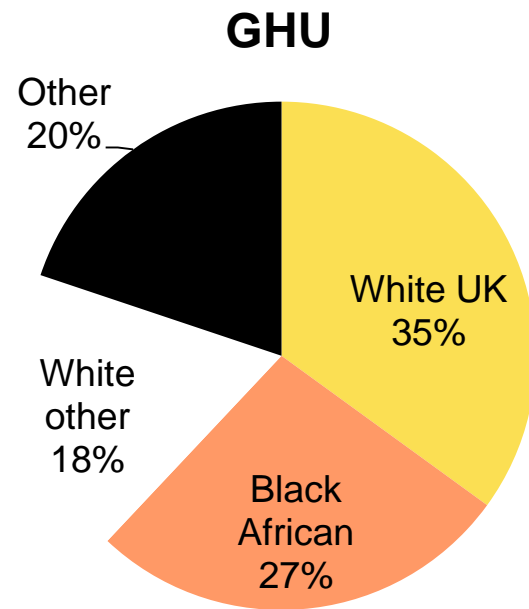
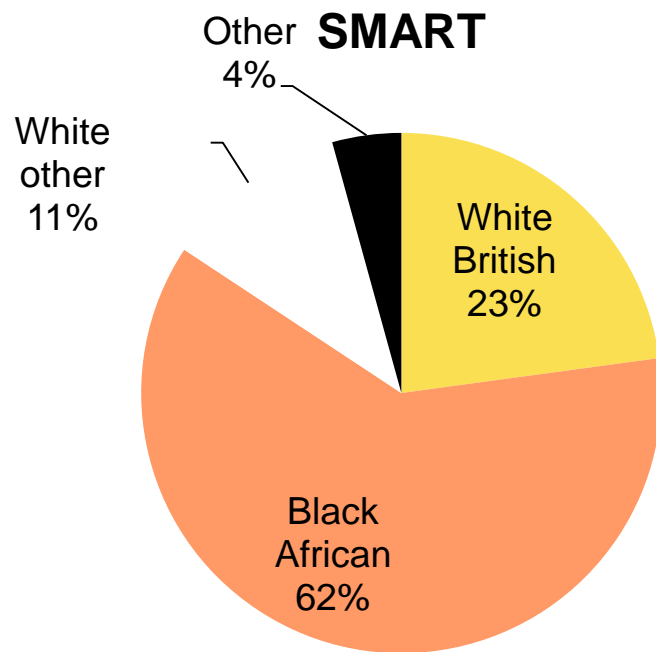
SMARTgroup



GHU

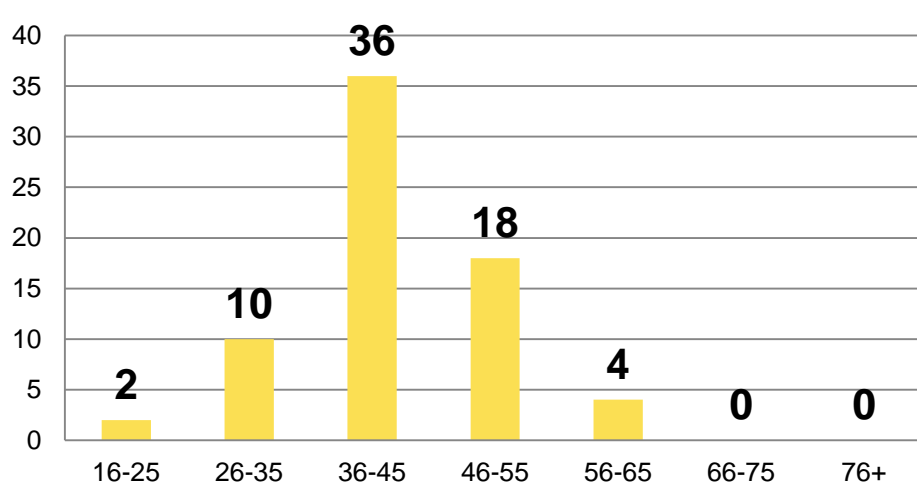


SMARTgroup: Ethnicity

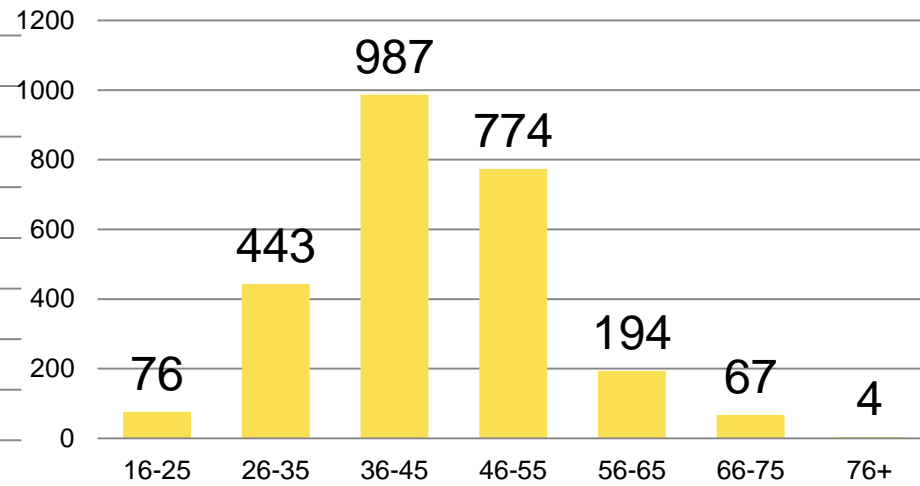


SMARTgroup: Age

SMART

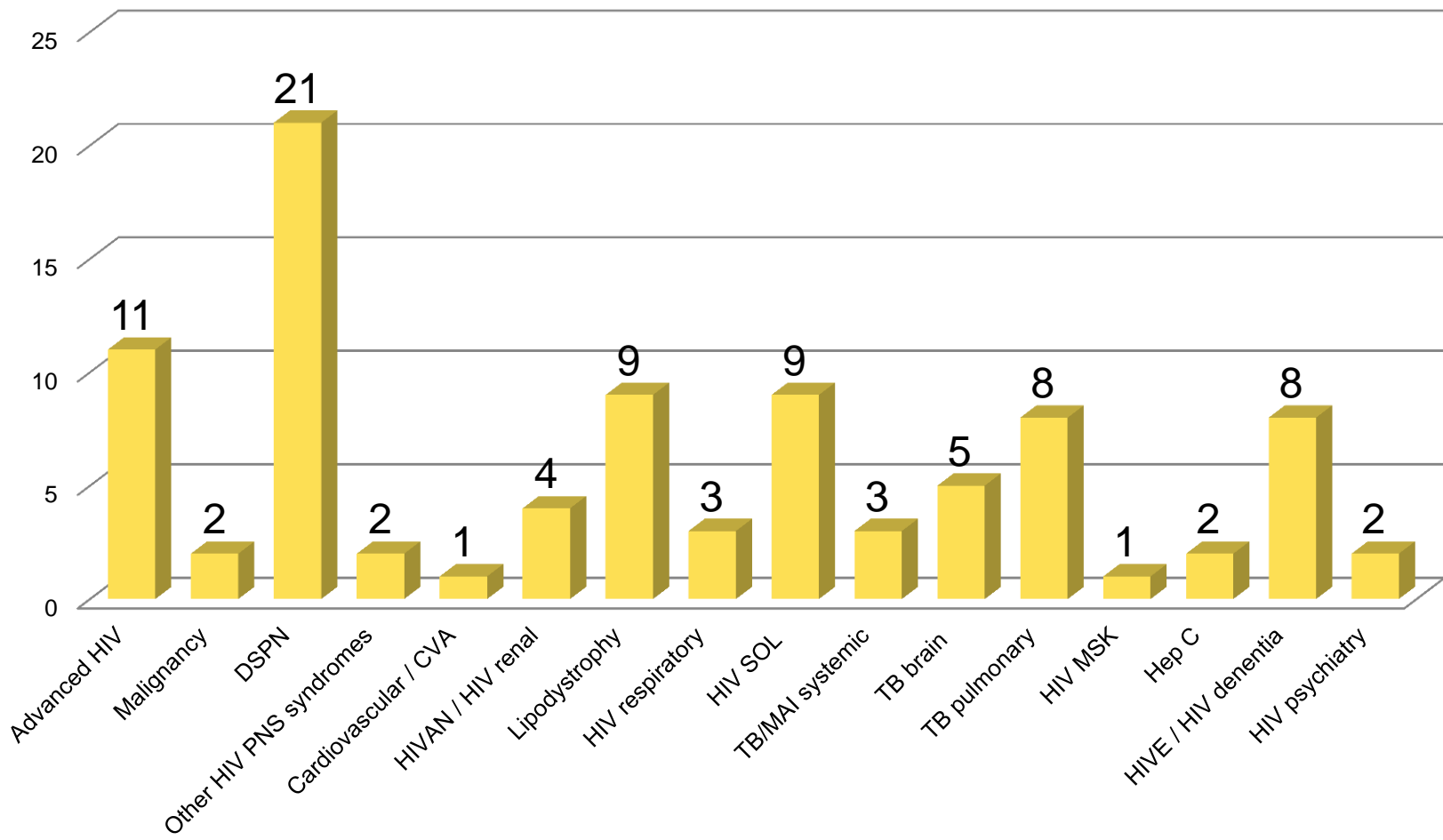


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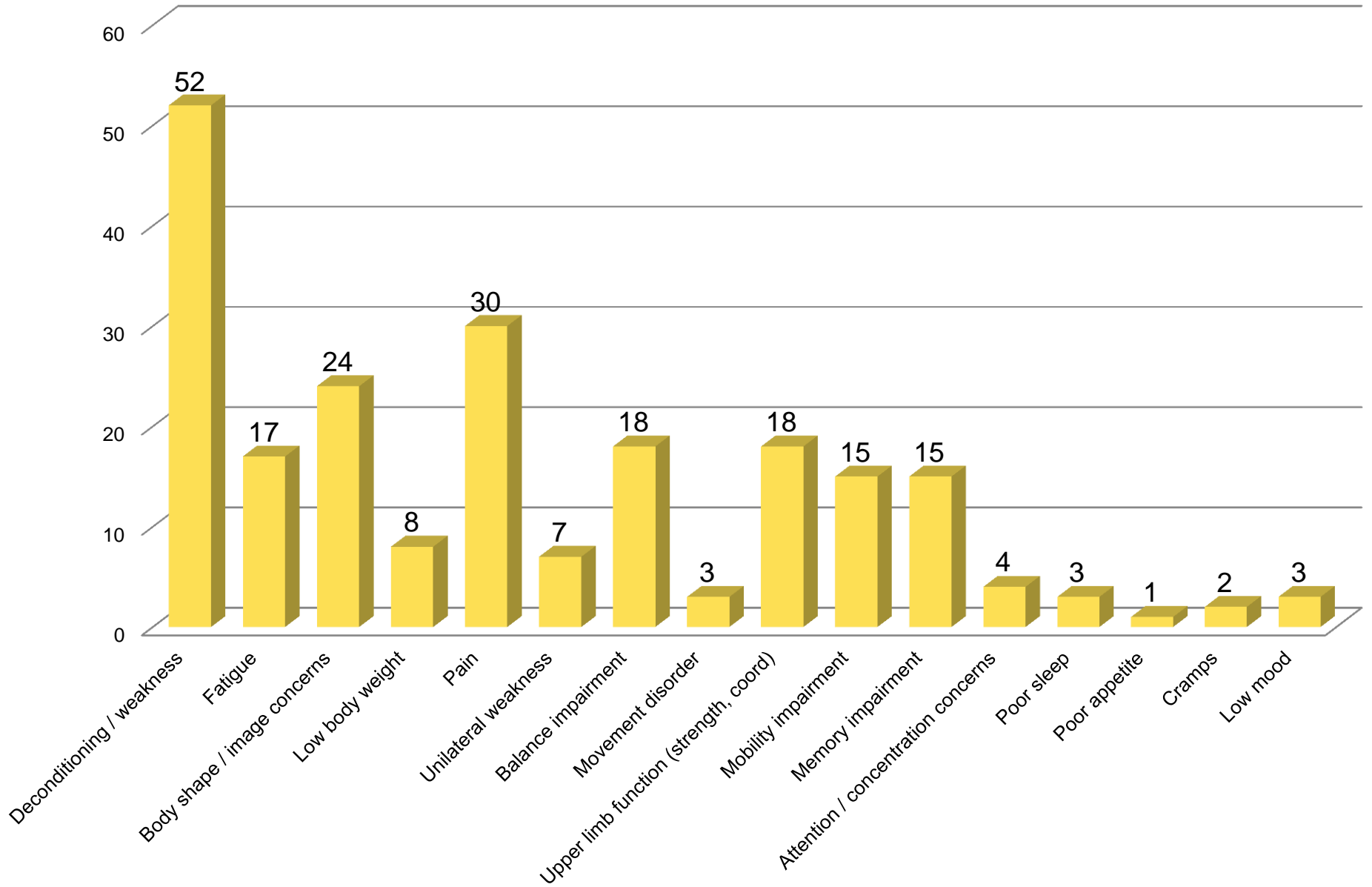


SMARTgroup

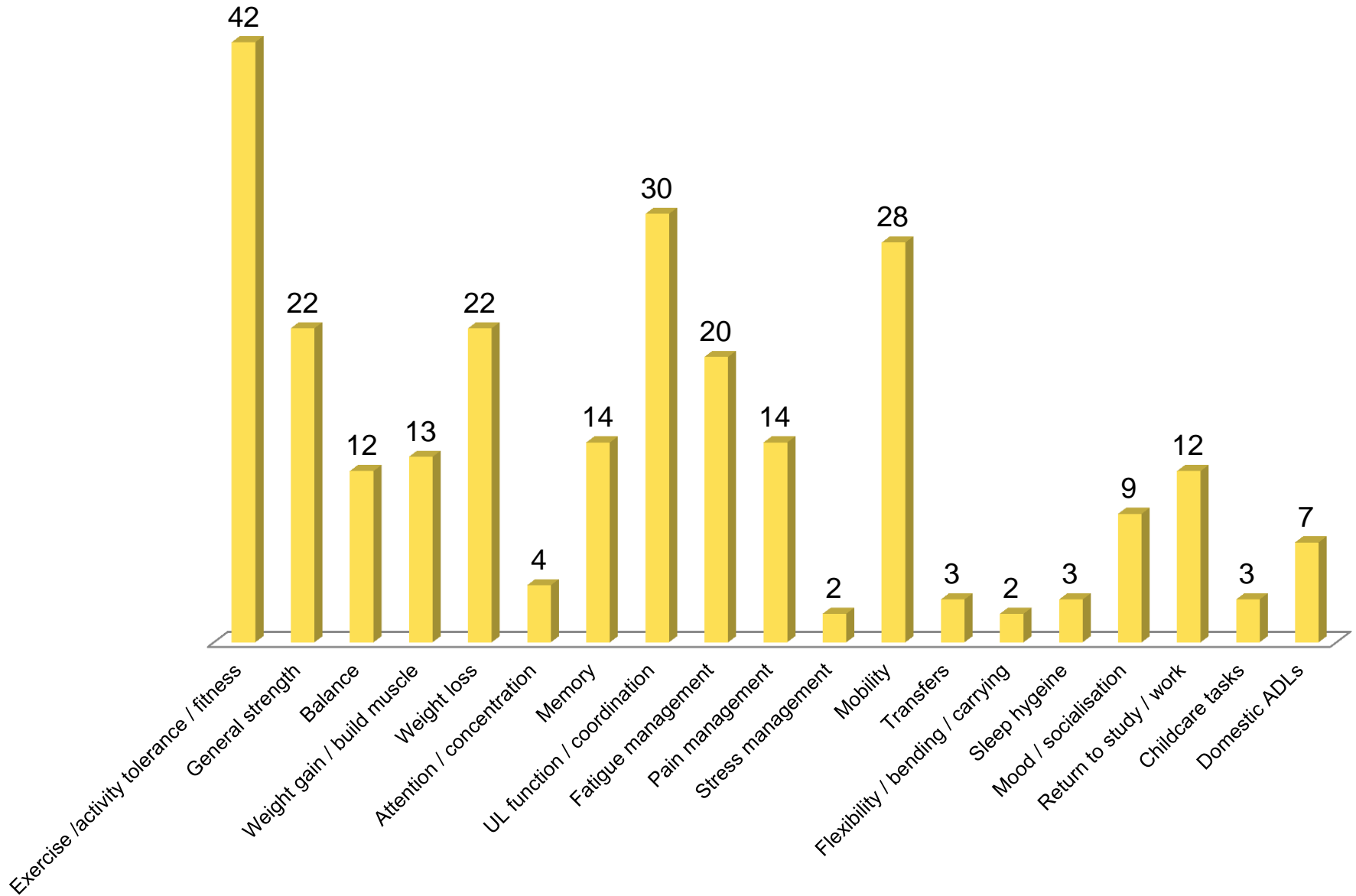
Primary HIV related diagnosis



SMARTgroup presenting complaints



SMART group Goal areas



SMARTgroup

Completion

1. Programmes completed 37
2. Programme discontinued 33

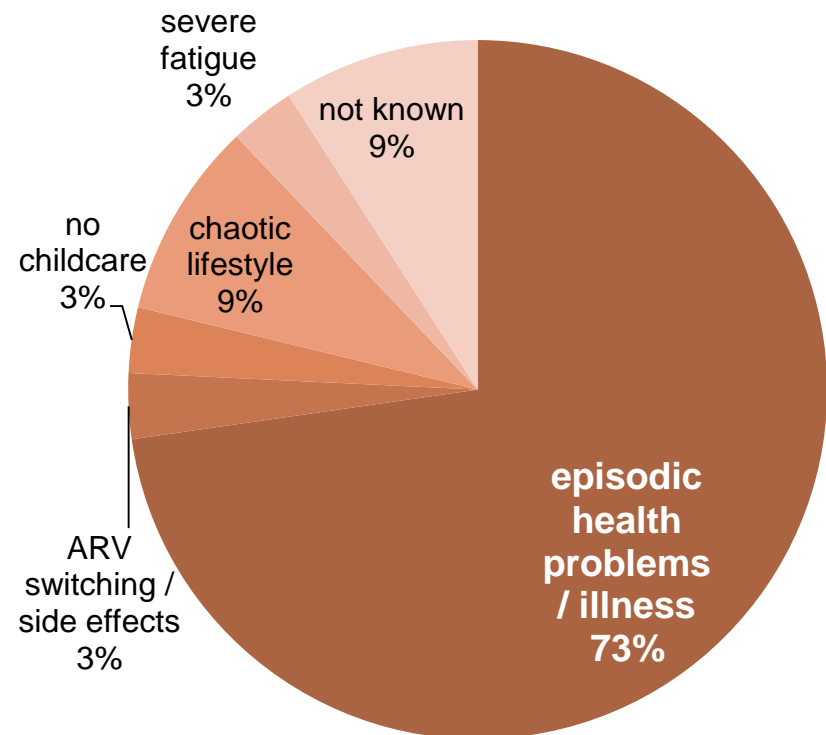
Completed programmes

1. Mean number of sessions 16.7 (range 5-41)

Uncompleted programmes

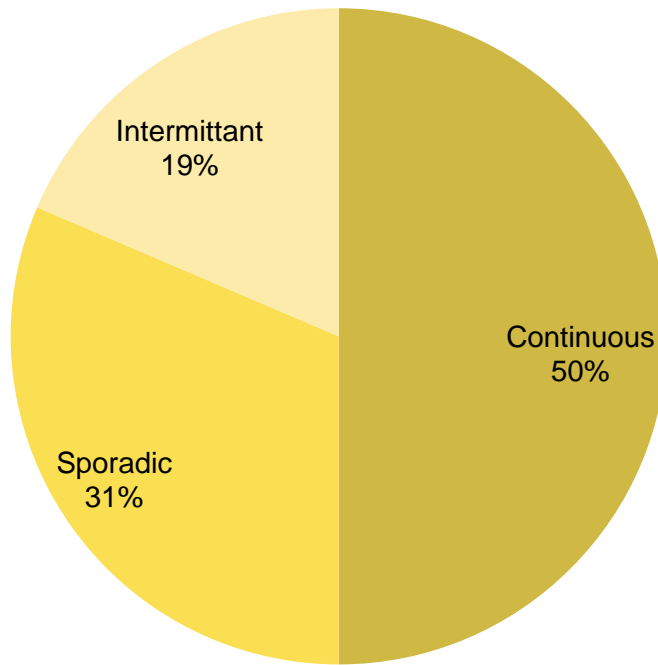
- Mean number of sessions 6.5 (range 1-17)

Reasons for non-completion

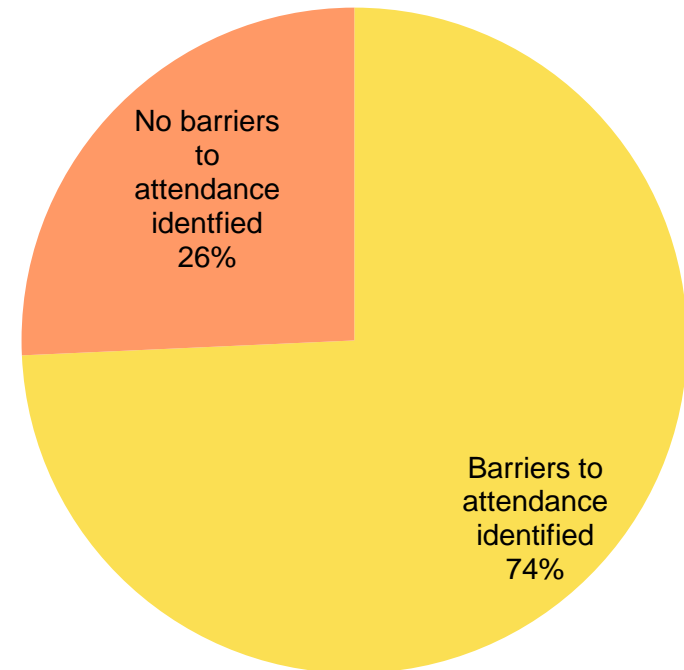


SMARTgroup

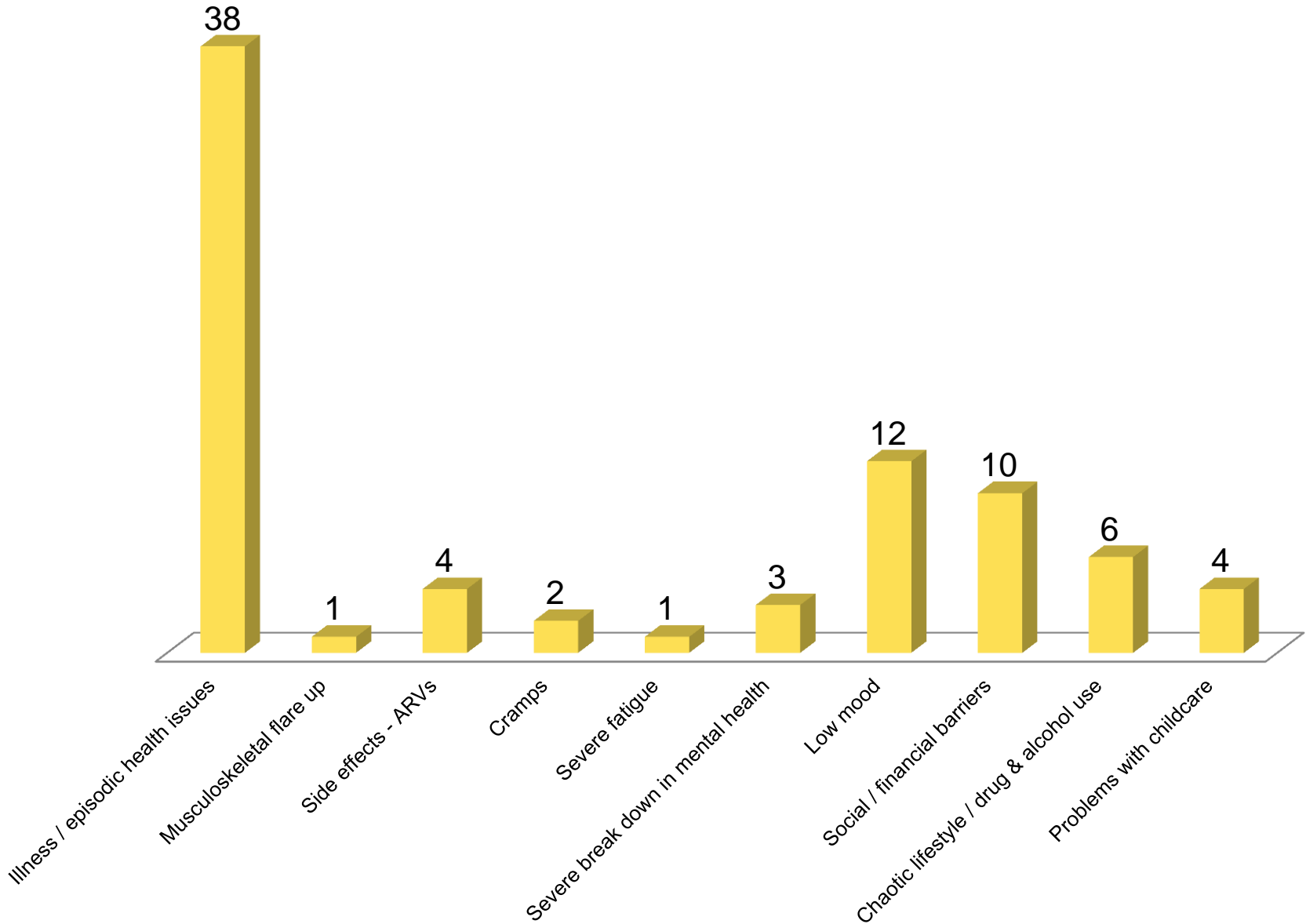
Pattern of attendance



Barriers to attendance



Barriers to attendance



SMARTgroup: subjective observations and patient feedback

- Patients developed relationships quickly that spanned outside the group, that crossed ethnicity / gender / age
- More experienced patients took up a mentoring role, particularly with inpatients
 1. especially if newly diagnosed or experiencing first catastrophic health issue
- Relationships continued post-group as patients “graduated” to other programmes
- Participants frequently reported they valued and enjoyed the group

SMARTgroup: summary of initial analysis

- Compared with the clinic population there is an over-representation of women and non-white British populations
- Episodic health problems are highly prevalent in this population
- Mood and social/financial barriers to attendance also impact successful attendance

SMARTgroup: implications

- Need to design flexibility in to programmes to be effective and responsive to
 1. Episodic health
 2. Social, cultural and financial needs
- Current tools have limitations, don't capture episodic nature of HIV
- Most effective goals are real-life, achievable, meaningful goals; appears key in achieving programme completion

SMARTgroup analysis - planned

- Stage II of analysis
 1. Outcome data – what happened to patients after completion
 2. Analysis of goal attainment data
 3. Analysis of impairment level change data (anthropometry, flexibility, mobility)
 4. Analysis of goal setting quality with completion data
 5. Analysis of impairment testing versus goal data