User goals-based approach to identify and prioritise the underlying drivers of low concordance with compression hosiery use

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Introduction

Despite evidence that compression hosiery (CH) is effective in chronic venous disease (CVD), concordance is low. Non-concordance is associated with poorer outcomes. There are many underlying reasons for non-concordance some of which also affect the management of type 2 diabetes and compression in burn injuries. Factors differ from the perspectives of the patient, product, and health care professional (HCP). All perspectives must be considered to understand the drivers of low concordance. Addressing low concordance from only one perspective is unlikely to generate sustainable improvement in concordance.

Perspectives related to concordance

Many patient-related factors affect concordance. Patients lie on a concordance spectrum. Some adhere closely to the care plan, some quickly remove CH and never or only occasionally re-apply it. Others lie between these extremes.

Patient beliefs drive concordance. The natural history of CVD is longer than the time scale over which incremental changes can be recognised, perhaps creating the belief that CVD is not serious. Consequently, the patient may believe nothing (or little) will happen if they do not wear CH, or if they do wear CH. Not wearing CH may be seen as permissible. The impact passes unnoticed at the level of conscious perception. The patient may struggle with delivery or understanding of complex education provided by the HCP, or be confused by the options. Patients may be elderly; have limited mobility; reduced strength; comorbidities that impair donning/removing CH; may need the assistance which if not available reduces compliance. There may be reasons for non-concordance associated with design that may be patient-related. Low concordance may be psychosocial.

The wound itself in a C6 patient may impact concordance. Patients are likely to want their daily life minimally disrupted. Activities of daily living (ADL) may affect concordance including laundring; replacing/acquiring new CH; confidence related to not being informed about how to replace CH; divergent priorities for the clinical effects of CH, and ADL. Co-morbidities may reduce concordance. The patient may have learned to live with the condition. Family members/carers may see CH as disruptive, becoming less willing to help. Perhaps the carer is elderly and/or infirm and struggles with donning and removing CH. The patient may start concordant but reduce concordance with experience or changing priorities.

CH designs may drive non-concordance. The elasticity, stiffness and stretch, which require force to overcome, may be too great. Some CH open to aid donning and have closures to overcome donning issues. No alteration to the structure/shape/physical properties of the CH is possible before donning. Performance may degrade once worn and repeatedly laundered, but essentially the properties are fixed. CH designs may be highly medical but made to look more like consumer products, perhaps reducing respect for CH making. The comfort of CH is important.

The HCP expects the condition to be managed by the agreed care plan despite known challenges. The HCP knows that full concordance is unlikely and may identify patients in whom concordance is less likely. The HCP may have history regarding the patient, or general expectations around concordance. The patient may have learned to manage the wound; preventing recurrence; reducing pain; minimising need for frequent removal to change or adjust dressings; minimising odour; improving peripheral skin condition. Personal goals include donning and removal; comfort; ability to wear normal clothing; impact on ADL; quality of life; time spent self-caring; laundering. Social goals include outward appearance; social life; group activities; involvement of lay carers; follow up visits to the HCP.

The research is structured to identify the underlying drivers of patient behaviour (goals). First, the steps to achieving goals (Pathway) are identified. The drivers of concordance could lie anywhere on the pathway. With this focus the findings can be stratified, clearly demonstrating where the main drivers of concordance are. Ultimately, user goals are overlaid on the pathway. The pathway is developed by experts, using a structured questionnaire, and validated or developed with patients.

Pathway step one is the HCP consultation including patient history; assessment and diagnosis; define treatment options; patient/carer education; fit with other parts of the care plan; the care plan; set concordance expectations; initiate care plan; repeat visits to the HCP. The second step is implementation of the care plan away from the clinical setting including removing CH during the day of the consultation; donning and removal on subsequent days (repeated daily); fit with co-morbidities; repeated laundering; CH replacement as required; removal of new CH from packaging.

Data collection requires user interviews using open questions considering functiona/personal/social goals to identify goals for each pathway component and what makes
goal achievement easy/difficult. The research should involve ~15 respondents per CH type/condition/HCP/carer to identify the drivers of non-concordance with a high degree of confidence. The number would increase for a study in more than one country to account for national differences. Interviews are conducted by an independent, informed interviewer to elicit unfiltered responses. Different users will have different foci for using CH; all will have a bearing on concordance. The research should involve patients using different types of CH or with different conditions to increase specificity, likely generating different reasons for non-concordance. This research structure will uncover many stratified reasons for non-concordance and identify main and subordinate drivers. The outcome will inform changes in approach and behaviour by CH manufacturers, HCPs, patients and carers. Focus on users goals, and understanding why they are or are not being met, will inform new product design, approaches to HCP consultations, enhanced educational materials, and it is anticipated higher levels of concordance.

References