Understanding the organisational culture of district health services: Mahalapye and Ngamiland health districts of Botswana

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Background: Botswana has a shortage of health care workers, especially in primary health care. Retention and high performance of employees are closely linked to job satisfaction and motivation, which are both highest where employees’ personal values and goals are realised.

Aim: The aim of the study was to evaluate employees’ personal values, and the current and desired organisational culture of the district health services as experienced by the primary health care workers.

Setting: The study was conducted in the Ngamiland and Mahalapye health districts.

Method: This was a cross sectional survey. The participants were asked to select 10 values that best described their personal, current organisational and desired organisational values from a predetermined list.

Results: Sixty and 67 health care workers completed the survey in Mahalapye and Ngamiland districts, respectively. The top 10 prevalent organisational values experienced in both districts were: teamwork, patient satisfaction, blame, confusion, job insecurity, not sharing information and manipulation. When all the current values were assessed, 32% (Mahalapye) and 36% (Ngamiland) selected by health care workers were potentially limiting organisational effectiveness. The organisational values desired by health care workers in both districts were: transparency, professional growth, staff recognition, shared decision-making, accountability, productivity, leadership development and teamwork.

Conclusions: The experience of the primary health care workers in the two health districts were overwhelmingly negative, which is likely to contribute to low levels of motivation, job satisfaction, productivity and high attrition rates. There is therefore urgent need for organisational transformation with a focus on staff experience and leadership development.

Comprendre la culture organisationnelle des services de santé de district: les districts de santé de Mahalapye et Ngamiland au Botswana.

Contexte: Le Botswana a une pénurie de personnel de santé, surtout dans les soins de santé primaire. La fidélisation et la bonne performance des employés sont étroitement liées à la satisfaction et à la motivation au travail, qui sont les plus élevées quand les valeurs personnelles et les objectifs des employés sont atteints.

Objectif: Le but de l’étude était d’évaluer les valeurs personnelles des employés, ainsi que la culture organisationnelle actuelle et voulue des services de santé de district vécue par le personnel de santé primaire.

Lieu: L’étude a été menée dans les districts de santé de Ngamiland et Mahalapye.

Méthode: C’était une étude transversale. On a demandé aux participants de choisir dix valeurs qui décrivent le mieux leurs valeurs organisationnelles personnelles actuelles et désirées à partir d’une liste prédéterminée.

Résultats: Soixante des 67 membres du personnel de santé ont complété le sondage dans les districts de Mahalapye et Ngamiland, respectivement. Les dix valeurs organisationnelles les plus importantes dans les deux districts étaient : le travail d’équipe, la satisfaction des patients, les reproches, la confusion, l’insécurité professionnelle, la non communication des informations et la manipulation. Quand toutes les valeurs actuelles ont été évaluées, on a noté que 32% (Mahalapye) et 36% (Ngamiland) des valeurs sélectionnées par le personnel de santé pouvait limiter l’efficacité organisationnelle. Les valeurs organisationnelles désirées par le personnel de santé des deux districts étaient: la transparence, le développement professionnel, la reconnaissance du mérite des employés, le partage des prises de décision, la responsabilité, la productivité, le développement du leadership et du travail d’équipe.

Conclusions: L’expérience des travailleurs de santé primaire dans les deux districts sanitaires était largement négative, ce qui probablement contribue aux faibles niveaux de motivation, de satisfaction professionnelle, de productivité et aux taux d’attrition élevés. Il est donc urgent de faire des transformations organisationnelles en mettant l’accent sur l’expérience du personnel et le développement du leadership.
Introduction

Primary health care has been identified as an essential part of the health system when countries strive to provide universal access to quality cost effective health services.\(^1\) Effective primary health care services in many low-to-middle-income countries are, however, limited by high disease burdens, dysfunctional health systems and shortage of appropriately skilled and sufficiently motivated healthcare workers.\(^2,3,4,5,6\)

Job satisfaction and motivation are strongly associated with retention and high performance of health care workers.\(^5,7,8\) Motivation, however, is complex as it is influenced by multiple intrinsic and extrinsic factors.\(^5,7,9\) Nevertheless, employees are known to have higher levels of productivity, commitment and creativity in organisations where their personal values and goals can be expressed or realised. These workers are said to have a kind of ‘psychological contract’ with the organisation.\(^10,11\) Successful organisations therefore will highly value their employee’s satisfaction and experience in order to enhance their engagement, retention and the organisation’s performance.\(^10,11,12\)

Botswana’s national health policy (2010) and the 10 year Integrated Health Services Plan (2010–2020) seek to ensure that there is ‘an appropriately skilled, motivated, well distributed and productive workforce for the provision of quality health services effectively and efficiently, to all the people living in Botswana.’\(^13,14\) The two policies subscribe to the following core values: ‘ethics, equity, ownership, evidence base, innovation, gender equity, client satisfaction, skilled staff retention and circulation and partnership’. The national Ministry of Health, which is the custodian and driver of policy and strategic planning, has the following core values: ‘customer focus (consistently meeting customer expectations), botho [providing service with respect, kindness in a friendly manner], timeliness (always delivering services on time to clients), equity (equal service delivery to all regardless of religion, social status or geographical location), teamwork (working together for a common goal) and accountability (responsible, liable and answerable for one’s actions)’.\(^15\) All the district health management teams (DHMTs) espouse the values of the Ministry of Health. It is notable that the Ministry of Health, and hence the DHMTs, place no value on staff experience or satisfaction despite the plan to have a motivated and productive health workforce.

Shortage of health care workers and their inequitable distribution were identified as major bottlenecks to the delivery of quality health services in Botswana.\(^6,14\) The health workers, especially doctors, are also more concentrated in urban areas and hospital services compared to rural areas and primary care clinics.\(^2,6,14\) The government has used training (both in and outside the country), recruitment of expatriate workers as well as bilateral agreements with China and Cuba to address the shortage of health professionals in the public health system. Conversely, many Batswana (citizens of Botswana) health professionals trained in other countries have remained in the host countries on completion of their training.\(^2,6,14\) In addition, a significant number of those who returned, and a number of those trained locally have migrated from the public to the private or non-governmental sectors or have left the country.\(^6\) (Thupayagale-Tshweneagae G. Migration of Nurses in Botswana. Botswana Nursing Council. Gaborone 2009, personal communication).

Administratively, Botswana is divided into 28 health districts, and primary health care is provided through a network of 265 primary care clinics (101 with maternity beds), 343 health posts and 861 mobile clinic sites.\(^7\) The health facilities have been grouped into functional clusters centred around a larger clinic with maternity beds. Clinical services in the clusters are coordinated by cluster heads who are senior nursing officers. Management of all health services, including recruitment and deployment of health care workers (HCWs), procurement and distribution of equipment and drugs, is centralised at the national Ministry of Health headquarters. DHMTs were created in 2010 to administer healthcare services in their respective districts. Being a relatively recent structure many of the managers at the health districts are still being appointed and there is uncertainty about their roles.

Ineffective human resources and health care management systems, and inadequate supportive supervision that does not focus on improving staff satisfaction and experience have been identified as important determinants of low health worker motivation and retention in Botswana’s public health service.\(^6\) This manuscript reports on the findings of a survey to evaluate the HCWs experience of the primary care organisation within Ngamiland and Mahalapye districts. The survey evaluated the organisational culture and was also intended to inform the work of a cooperative inquiry group that was initiated in the Ngamiland district. The last-mentioned group had been established to improve supportive supervision by the DHMT and cluster heads and to evaluate if this would increase staff motivation, experience and retention. The cooperative inquiry group was seen as the intervention in a quasi-experimental study and its findings will be presented later in separate articles.

Methods

Study design

A cross sectional survey of personal values, current organisational culture and desired future organisational culture, from the health workers’ perspective, was conducted in Ngamiland and Mahalapye health districts.

The values assessment was based on a conceptual framework that recognised the interrelation between the individual personality and character on the one hand and the organisational culture and structures or systems on the other (Table 1).\(^11\) At the individual level, one’s internal values drive one’s personality and are expressed through actions and behaviours as one’s character. At the collective level the
Organisations therefore, like individuals, are living systems which possess internal values and external behaviours. The survey tools supplied by the Barrett’s Value Centre make the internal individual and collective values visible and allow an assessment of the alignment between the four quadrants shown in Table 1. Highly functioning organisations have greater alignment or congruence between the four quadrants of this model. Personal alignment refers to the degree of congruence between one’s individual values and behaviour, whilst structural alignment refers to the alignment between organisational values and structures or procedures. Values alignment refers to the extent to which individual values are congruent with organisational values and mission alignment refers to how well individual behaviour is congruent with organisational behaviour and procedures. A system that is well aligned across the quadrants will have employees that are more engaged and motivated, with high organisational performance. This model implies that a system or organisation that wants to improve its performance must work on alignment in and between all four quadrants simultaneously as they are interdependent. At the organisational level, the leadership has the greatest influence over creating and maintaining the prevailing culture and therefore transformation almost always involved leadership transformation. In the model developed by Richard Barrett the values selected in the survey can also be assigned to seven different levels of organisational consciousness (Table 2). The seven levels of consciousness were originally developed from Maslow’s hierarchy of needs, and the distribution of values provides insight into what the organisation currently needs from its employees and what the employees need the organisation to focus on in the future. A well-functioning organisation will have positive values across all the levels. In the bottom three levels there can be both limiting as well as positive values. Limiting values are values which are usually detrimental to the functioning of the organisation and limit the organisation’s performance. In the model the total percentage of all values chosen that are potentially limiting values corresponds to the organisational entropy, which is a measure of the amount of dysfunction and wasted energy in the system.

**Setting**

The research was performed in the health districts of Ngamiland (population: 96,356) and Mahalapye (population: 117,492), which are serviced by 29 and 40 primary care facilities (clinics and health posts) respectively. According to the 2011 National Health Policy, 80% of the Botswana population use public health services. The DHMT is led by a head, who is usually a doctor with public health training, with heads of preventive, curative and corporate services reporting to him or her, whilst he or she reports to the Deputy permanent secretary, clinical services. The clinic clusters are managed by cluster heads who are nursing officers based at the larger clinics. Each clinic in turn is managed by a nursing sister-in-charge, who reports to the cluster heads. The majority of the HCW employed at these clinics and health posts are nurses and midwives with small numbers of pharmacy technicians, social workers, health education assistants and medical officers (generalist doctors). The doctors are based at the larger clinics and support the smaller facilities through regular outreach.

**Study population**

All the primary HCWs in Ngamiland and Mahalapye health districts were eligible to participate in the survey, whereas support staff, such as drivers and cleaners and HCWs based in hospitals, were excluded. The research teams visited most primary care facilities to deliver the survey forms and for those facilities that were not visited the forms were given to the cluster heads. The plan was to recruit all consenting health workers on duty in the facilities during the two

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**TABLE 1: Four quadrants of human systems (Adapted from R Barrett).**

<table>
<thead>
<tr>
<th>Variables</th>
<th>Individual</th>
<th>Collective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective (External)</td>
<td>Character: Individual actions and behaviours</td>
<td>Structures and procedures: Collective actions, behaviours and processes</td>
</tr>
<tr>
<td>Subjective (Internal)</td>
<td>Personality: Individual values and beliefs</td>
<td>Culture: Guiding values, attitudes that limit, shared strategic vision</td>
</tr>
</tbody>
</table>

**TABLE 2: Seven levels of organisational consciousness (adapted from R Barrett).**

<table>
<thead>
<tr>
<th>Consciousness level</th>
<th>Example of collective values</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. Service to humanity and social contribution</td>
<td>Social responsibility, long-term perspective, future generations, ethics, compassion, humility</td>
</tr>
<tr>
<td>6. Making a difference to the local community or health district</td>
<td>Environmental awareness, community involvement, strategic partnerships, employee fulfilment, coaching, mentoring and leadership development</td>
</tr>
<tr>
<td>5. Sense of purpose and strong internal cohesion</td>
<td>Shared vision and values, commitment, creativity, enthusiasm, integrity, generosity, fairness, honesty, openness, transparency and trust</td>
</tr>
<tr>
<td>4. On-going improvement and employee participation</td>
<td>Adaptability, accountability, empowerment, teamwork, goals orientation and continuous improvement</td>
</tr>
<tr>
<td>3. High performance and quality of care</td>
<td>Reliability, quality, efficiency, productivity, excellence, best practice, systems and processes, bureaucracy, hierarchy, confusion, arrogance, hoarding information, and complacency</td>
</tr>
<tr>
<td>2. Relationship with colleagues and patients</td>
<td>Loyalty, open communication, patient experience and friendship, blame, internal competition, rivalry, favouritism, and manipulation</td>
</tr>
<tr>
<td>1. Survival: Resources and safety</td>
<td>Sufficient budget, equipment, employee health and safety, control, greed, chaos, caution, job insecurity, exploitation, and micromanagement</td>
</tr>
</tbody>
</table>

† Limiting values.
weeks of data collection. All the HCWs on duty during the two weeks of data collection were invited to complete the survey. Cluster heads were also invited to complete the survey as they are also based in the primary health care facilities.

Data collection

The questionnaire was a standardised and validated tool developed by the Barrett Value Centre. The participants were asked to select 10 values, from a predetermined list, that best described their personal values, the organisational culture as they currently experienced it and the culture they desired in the district health service. The researchers also collected demographic data which included, gender, age, name of health facility, length of stay at the facility and job title. The anonymous questionnaire was administered in English, which is the normal language of communication in the organisation. The tool was piloted for understanding amongst HCWs working at the University of Botswana clinic who were considered to be of the same level of training and experience as the study population. The hardcopy survey was self-administered by the participants, and trained research assistants provided clarification as required. The collated questionnaires were then captured in the password controlled Barrett Value Centre website by one of the research assistants.

Data analysis

The Barrett’s Value Centre analysed the data and provided the study team with the results and a report. The results were descriptive and provided the numbers and frequencies for the selected values. The results were presented in figures and words and mapped to the seven levels of organisational consciousness.

The results were presented to the HCWs in each district in order to explore the meanings of the selected values. They were also presented to the Ngamiland District Health Management Team and cluster heads as part of the input into the cooperative inquiry process.

Ethical consideration

Approval to conduct the study was given by the University of Botswana Institutional Review Board, the Ngamiland District Ethics Committee, the Stellenbosch University Health Research Ethics Committee (Protocol Number: S13/03/051) and the Botswana Ministry of Health, Health Research Development Committee (Reference No: PPME 13/18/1 V11 (368)). Written consent was obtained from each study participant.

Results

Demographical data

In Mahalapye, 60 primary HCWs on duty during the data collection period completed the survey compared to 67 in Ngamiland (Table 3). All those on duty during the data collection period agreed to participate in the survey, although one form from Mahalapye and five from Ngamiland were incomplete and therefore excluded from the data analysis. The health workers were recruited from 25 of Mahalapye’s 40 (63%) clinics and health posts and 19 of Ngamiland’s 29 (66%) primary care facilities. The majority of participants were female in Ngamiland (64%) and Mahalapye (66%).

Most of the HCWs in primary care in these districts were nurses (Table 3). The staff category labelled ‘others’ included social workers, pharmacists and health education assistants. Health education assistants are specifically trained for 18 months to be a link between primary care facilities and the community.

Ngamiland health district values

Table 4 shows the top 10 values in rank order for the Ngamiland respondents’ personal values, current experience of the organisation and desired future experience of the organisation. The values in italics are personal values that were also desired organisational values and those in bold were current organisational values that health workers wanted to continue to experience in the future. None of the personal values were currently experienced in the organisation.

Seven of the top 10 current organisational values were potentially limiting (marked with L) and only three were positive (Table 4). When all the limiting values were analysed there was a cultural entropy rate of 36%, which is a high level of entropy ‘requiring cultural and structural transformation, and leadership development’.11

There were no limiting values amongst the top 10 desired organisational values. These include only one currently experienced organisational value, teamwork, and one personal value, accountability (Table 4).

Mahalapye health district values

Table 5 shows the top 10 values in rank order for the Mahalapye respondents’ personal values, current organisational and desired future organisational values. The values in italics were personal values that were also desired organisational values and those in bold were current

TABLE 3: Age, length of service in the district and the different staff categories.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mahalapye N = 60</th>
<th>Maun N = 67</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n (%)</td>
<td>n (%)</td>
</tr>
<tr>
<td>Staff categories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctors</td>
<td>1 (1.7)</td>
<td>1 (1.7)</td>
</tr>
<tr>
<td>Nurses</td>
<td>55 (91.7)</td>
<td>60 (89.5)</td>
</tr>
<tr>
<td>Others</td>
<td>4 (6.8)</td>
<td>3 (4.5)</td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>3 (4.5)</td>
</tr>
<tr>
<td>Mean age (range) years</td>
<td>35.7 (23–51)</td>
<td>35.4 (23–60)</td>
</tr>
<tr>
<td>Mean length of service in district (range) years</td>
<td>5.6 (1–20)</td>
<td>4.9 (1–21)</td>
</tr>
</tbody>
</table>
organisational values that health workers wanted to continue to experience in the future. None of the personal values were currently experienced in the organisation.

Eight of the current organisational values were potentially limiting (marked with L) and five were positive. When all the limiting values are analysed there was a high cultural entropy rate of 32%.

None of the top 10 desired organisational values were potentially limiting. Teamwork was the only desired value currently experienced in the organisation. Two of the top 10 personal values, accountability and fairness, were desired for the future organisation (Table 5).

### Comparison of Mahalapye and Ngamiland health district values

Primary HCWs in Mahalapye and Ngamiland share nine common personal values (Table 6) and two dissimilar values, namely, fairness (Mahalapye) and openness (Ngamiland).

Eight of the top 10 values in the current culture were also shared by the two districts. These included two positive values and six limiting values, as shown in Table 6. Working in isolation was another potentially limiting value currently experienced in Ngamiland whilst long hours and control were experienced in Mahalapye. Furthermore, Mahalapye had the following positive values: community involvement, shared vision and professionalism compared with

### Table 4: Top 10 personal, current organisational and desired future organisational values for Ngamiland health district.

<table>
<thead>
<tr>
<th>Personal values</th>
<th>N = 62 n</th>
<th>Current organisational values</th>
<th>N = 62 n</th>
<th>Desired organisational values</th>
<th>N = 62 n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountability§</td>
<td>40</td>
<td>Working in isolation†</td>
<td>22</td>
<td>Transparency</td>
<td>26</td>
</tr>
<tr>
<td>Caring</td>
<td>30</td>
<td>Confusion†</td>
<td>21</td>
<td>Leadership development</td>
<td>20</td>
</tr>
<tr>
<td>Trust</td>
<td>24</td>
<td>Job Insecurity†</td>
<td>20</td>
<td>Teamwork‡</td>
<td>20</td>
</tr>
<tr>
<td>Respect</td>
<td>23</td>
<td>Information sharing</td>
<td>20</td>
<td>Staff recognition</td>
<td>17</td>
</tr>
<tr>
<td>Honesty</td>
<td>22</td>
<td>Working strictly by the rules†</td>
<td>19</td>
<td>Accountability§</td>
<td>16</td>
</tr>
<tr>
<td>Cooperation</td>
<td>20</td>
<td>Blame†</td>
<td>18</td>
<td>Productivity</td>
<td>16</td>
</tr>
<tr>
<td>Commitment</td>
<td>19</td>
<td>Not sharing information†</td>
<td>18</td>
<td>Shared decision making</td>
<td>15</td>
</tr>
<tr>
<td>Openness</td>
<td>18</td>
<td>Teamwork‡</td>
<td>18</td>
<td>Professional growth</td>
<td>14</td>
</tr>
<tr>
<td>Compassion</td>
<td>16</td>
<td>Patient satisfaction</td>
<td>17</td>
<td>Staff engagement</td>
<td>13</td>
</tr>
<tr>
<td>Responsibility</td>
<td>16</td>
<td>Manipulation§</td>
<td>16</td>
<td>Staff health</td>
<td>12</td>
</tr>
</tbody>
</table>

†, limiting value; †, values that are both current organisational values and desired organisational values; §§§, values that are both personal values and desired organisational values.

### Table 5: Top 10 personal, current organisational and desired organisational values: Mahalapye health district.

<table>
<thead>
<tr>
<th>Personal values</th>
<th>N = 59 n</th>
<th>Current organisational values</th>
<th>N = 59 n</th>
<th>Desired organisational values</th>
<th>N = 59 n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountability§</td>
<td>37</td>
<td>Teamwork‡</td>
<td>22</td>
<td>Transparency</td>
<td>24</td>
</tr>
<tr>
<td>Caring</td>
<td>24</td>
<td>Blame†</td>
<td>18</td>
<td>Professional growth</td>
<td>18</td>
</tr>
<tr>
<td>Respect</td>
<td>20</td>
<td>Community involvement</td>
<td>17</td>
<td>Staff recognition</td>
<td>18</td>
</tr>
<tr>
<td>Commitment</td>
<td>19</td>
<td>Confusion†</td>
<td>17</td>
<td>Shared decision making</td>
<td>15</td>
</tr>
<tr>
<td>Compassion</td>
<td>19</td>
<td>Job insecurity†</td>
<td>15</td>
<td>Accountability§</td>
<td>14</td>
</tr>
<tr>
<td>Honesty</td>
<td>19</td>
<td>Patient satisfaction</td>
<td>15</td>
<td>Productivity</td>
<td>14</td>
</tr>
<tr>
<td>Cooperation</td>
<td>17</td>
<td>Not sharing information†</td>
<td>14</td>
<td>Organisational growth</td>
<td>12</td>
</tr>
<tr>
<td>Responsibility</td>
<td>17</td>
<td>Long hours†</td>
<td>13</td>
<td>Staff fulfilment</td>
<td>12</td>
</tr>
<tr>
<td>Trust</td>
<td>15</td>
<td>Control†</td>
<td>12</td>
<td>Empowerment</td>
<td>11</td>
</tr>
<tr>
<td>Fairness§</td>
<td>14</td>
<td>Manipulation†</td>
<td>12</td>
<td>Fairness§</td>
<td>11</td>
</tr>
</tbody>
</table>

### Table 6: The top 10 personal current and future organisational values for Mahalapye and Ngamiland.

<table>
<thead>
<tr>
<th>Personal values</th>
<th>Desired organisational values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountability</td>
<td>Teamwork</td>
</tr>
<tr>
<td>Caring</td>
<td>Professional growth§</td>
</tr>
<tr>
<td>Respect</td>
<td>Staff recognition</td>
</tr>
<tr>
<td>Commitment</td>
<td>Shared decision-making</td>
</tr>
<tr>
<td>Compassion</td>
<td>Accountability§</td>
</tr>
<tr>
<td>Honesty</td>
<td>Productivity</td>
</tr>
<tr>
<td>Cooperation</td>
<td>Leadership development</td>
</tr>
<tr>
<td>Responsibility</td>
<td>Teamwork</td>
</tr>
<tr>
<td>Trust</td>
<td>-</td>
</tr>
</tbody>
</table>

†, Limiting values; †, Desired values that are not part of the prevalent organisational culture.
information sharing for Ngamiland. None of the personal values of the health workers were experienced in either district.

The primary HCWs in Ngamiland and Mahalapye also shared 8 of the top 10 desired organisational values (Table 6). These included seven new (bold) values and one that is currently experienced in both districts. Moreover, Mahalapye health workers also selected the following desired values: organisational growth, staff fulfilment, empowerment, fairness and mission focus, whilst those in Ngamiland chose staff health and staff engagement.

Figure 1 shows the percentages of all personal values of HCWs in Mahalapye and Ngamiland according to the level of organisational consciousness. HCWs in the two districts had almost identical distributions of personal values that were concentrated at Level 5 followed by Levels 4 and 2.

The distribution of current organisational values for the two districts was similarly concentrated at Level 4 with a need for more accountability and shared decision-making, followed by

The distribution of the desired values for the two districts was similarly concentrated at Level 4 with a need for more accountability and shared decision-making, followed by
Level 5 with a call for more transparency to build alignment and internal cohesion (Figure 3). Level 3 represented a positive commitment to improved productivity and professional growth. The other levels suggested a need for more attention to staff welfare and more recognition of the work they were doing as well as a call for development of the leadership within the organisation.

Table 7 summarises the feedback from the health workers in both districts on their interpretation of the values seen in the current organisational culture. The current organisational values reflect the employees’ perceptions of what their organisation focuses on and how it behaves. These attributes provide a picture of the working environment, the positive aspects of the business, and its potential problem areas. These are a description of what the situation is between these groups at this point in time.11,12

**Discussion**

This study has investigated the personal values of the HCWs in the Mahalapye and Ngamiland health districts as well as the perceived current and desired organisational culture of the health districts. Organisational culture has been strongly linked to employee satisfaction and organisational commitment and hence their retention.17 An understanding of the prevailing organisational culture in the Botswana district health system and how this is likely to affect retention of primary HCWs is critical to guide organisational transformation.

The results of this study showed that the HCWs’ personal values were focused on demonstrating ownership for their actions, being truthful and trustworthy. They also placed emphasis on fostering kind and supportive interactions with the people around them. The prevailing culture in the districts, on the other hand, was predominantly perceived as potentially limiting and likely to cause frustration amongst employees and hinder organisational performance. None of the personal values of the HCWs were currently experienced in either district where a culture of blame, control, manipulation, poor communication and working strictly by the rules dominated. HCWs in both districts additionally
experienced high levels of job insecurity. It is also notable that more than a third of the current organisational values were perceived as constraining organisational performance. The incongruence between personal and organisational values is likely to negatively affect job satisfaction, performance and organisational commitment.12,17

The personal values of the primary HCWs in the two health districts in Botswana were almost identical to their counterparts in the Cape Town primary care services where the primary health care services were also equally experienced as negative with levels of entropy above 30%.18 Similar organisational dysfunction has also been reported by Kenyan HCWs in Kenya’s district hospitals.19

With the exception of teamwork and customer focus (patient satisfaction), the current organisational values were not aligned to the espoused values of the national Ministry of Health and district health services of both the Ministry of Health and district health services of Botswana. [kindness, compassion, respect], integrity, timeliness and accountability.14 These espoused values, however, are similar to the actual personal values of the employees, implying that the staff have the potential to manifest the espoused values of the Ministry if given a chance to do so. Interestingly, the Western Cape government embraces similar core values of caring, competence, accountability, integrity, responsiveness and respect, despite its mostly negative employee experiences.20 This incongruity between personal and organisational values as well as espoused and actual values is very likely to result in low health worker motivation, high attrition and poor patient outcomes.5,11,12

Primary care workers in the two districts desire organisational transformation that concentrates on building a sense of shared purpose, internal community and employee participation. They were in agreement that a more supportive and innovative culture with a focus on transparency, professional growth, staff recognition, shared decision-making, accountability, productivity and leadership development should replace the current largely limiting culture. The HCWs also wanted to see teamwork continue as part of the future culture of the district health services. A more supportive and innovative culture together with considerate supportive supervisors has been associated with increased job satisfaction and organisational commitment.17 Organisational culture and leadership styles determine the work environment, which can be either helpful or detrimental to organisational effectiveness and job satisfaction.21 Furthermore, the perception of a limiting work environment and paucity of supportive supervision is strongly correlated with low job satisfaction and intention to migrate.22 Alignment of the distribution of the desired organisational culture and personal values denotes that the health workers are capable of affecting the change they want to see.18

Botswana’s human resources for health are heavily skewed towards cities and hospital care, displaying an ‘inverse care law’.23,24 despite the national Ministry of Health and the district health systems espoused value of equity.14 Attraction and retention of motivated and committed health workers to primary health care services, especially in rural areas, should therefore be prioritised. This mandates a new emphasis on employee experience with a focus on professional development, shared decision-making and staff engagement in the district health system.

The response rates were relatively low, but the study captured the views of all the different health care cadres working in two thirds of the health facilities of each district. The study was conducted in two of the 27 health districts in the country, which means the findings may not be applicable to the rest of the health system. The concordance in the personal and perceived organisational values in these two dissimilar districts, however, suggests that similar findings may be elicited in other health districts. The very strong similarity and distribution of the values and culture with Cape Town primary care services also suggests that this state of affairs may be prevalent in the region.

Conclusion

The primary HCWs in Mahalapye and Ngamiland health districts perceive the organisational culture of the health districts to be mostly limiting organisational effectiveness. The health workers personal attributes were strongly correlated with the transformed culture they desired to see in their health districts, reflecting personal capacity to effect the changes. The employees’ personal attributes and those they want to see in the future transformed organisation are in keeping with what is known about organisational cultures and leadership styles that create employee satisfaction, organisational commitment and retention. Transformation of the leadership from a bureaucratic controlling style focused on keeping the status quo to a more supportive type is urgent in order to restore employee trust and retain them in primary care.

There is an urgent need for organisational transformation of the health care services at the district and national levels to translate the espoused organisational values to the felt culture. This transformation should accentuate employee experience with an emphasis on accountability, transparency, professional growth, staff recognition and shared decision making. Opportunities for professional growth as well as employee recognition are well known to improve health care worker motivation and retention.

Leadership have the greatest influence in creating and sustaining the prevailing organisational culture. Leadership development is therefore imperative at all levels of the health system for organisational transformation to succeed.

Implementation research to explore whether developing more supportive leaders will improve employee motivation and retention is required. Additionally, investigation of aspects of organisational transformation that will significantly
impact staff motivation and retention in the Botswana primary health care services will need to accompany the transformation.

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Competing interests

The authors declare that they have no financial or personal relationship(s) that may have inappropriately influenced them in writing this article.

Authors’ contributions

O.N. (University of Botswana, School of Medicine) conceptualised the project, collected and drafted the manuscript. R.M. (Stellenbosch University) guided the conceptualisation of the project, facilitated the data analysis, reviewed the draft manuscript and approved the final version. N.P. (University of Botswana, School of Nursing) reviewed the manuscript and approved the final version.

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